

IBM WebSphere Commerce Studio
IBM WebSphere Commerce – Express Developer Edition



Update Guide

Version 5.5.0.5

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Note:

Before using this information and the product it supports, be sure to read the general information under “Notices” on page 17.

Second Edition, Marc 2005

This edition applies to IBM WebSphere Commerce Studio Business Edition Version 5.5, IBM WebSphere Commerce Studio Professional Edition Version 5.5, and IBM WebSphere Commerce — Express Developer Edition 5.5.

It also applies to all subsequent releases and modifications until otherwise indicated in new editions. Ensure you are using the correct edition for the level of the product.

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Preface

About this book


This document describes the steps required to apply the IBM® WebSphere® Commerce 5.5.0.5 update to WebSphere Commerce Studio 5.5 or WebSphere Commerce — Express Developer.

Conventions 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* is used to emphasize words. Italics also indicate names for which you must substitute the appropriate values for your system.

 **Business** Indicates information specific to WebSphere Commerce Business Edition.

 **Professional** Indicates information specific to WebSphere Commerce Professional Edition.

 **Express** Indicates information specific to WebSphere Commerce — Express Edition.

 **DB2** Indicates information specific to DB2® Universal Database™.

 **Oracle** Indicates information specific to Oracle 9i Database.

Terminology used in this book

update_name

The name of the update chosen by the user.

Path variables

WCStudio_installdir

This is the installation directory for WebSphere Commerce Studio. The default installation directory for WebSphere Commerce Studio is C:\WebSphere\CommerceStudio55.

WCDE_installdir

This is the installation directory for WebSphere Commerce — Express Developer Edition. The default installation directory for WebSphere Commerce — Express Developer Edition is C:\WebSphere\CommerceDev55.

WCStudio_workspacedir

This is the directory for the WebSphere Commerce Studio workspace. The default workspace directories are as follows:

▶ DB2 C:\WebSphere\workspace_db2

▶ Oracle C:\WebSphere\workspace_oracle

WCDE_workspacedir

This is the directory for the WebSphere Commerce — Express Developer Edition workspace. The default workspace directory is C:\WebSphere\workspace_db2.

WSAD_installdir

This is the installation directory for WebSphere Studio Application Developer. The default installation directory for WebSphere Studio Application Developer is C:\WebSphere\Studio5.

Where to find more information

For information on WebSphere Commerce Studio, refer to the following Web sites:

- WebSphere Commerce Library
(<http://www.ibm.com/software/commerce/library/>)
- WebSphere Commerce Support
(<http://www.ibm.com/software/commerce/support/>)

Chapter 1. Considerations for your extended WebSphere Commerce code

Customized extension code after applying the fix pack

When applying WebSphere Commerce fix packs, it is strongly recommend that you first test your WebSphere Commerce application in the WebSphere Commerce Studio environment before deploying to the WebSphere Application Server environment, especially when you have made code extensions to the product. The following is a high level summary of the steps required to apply a fix pack.

Pre-install preparation

1. Download the required WebSphere Commerce fix pack and WebSphere Commerce Studio fix pack. It is important that the level of fixes are the same for both fix packs.
2. From your WebSphere Commerce Studio development environment, commit all of your code changes into your team code repository.
3. This step is optional but recommended. Back up the database and any WebSphere Commerce instance specific information and file assets in the WebSphere Application Server environment.

Installing the fix pack to WebSphere Commerce Studio development environment

1. Follow the instructions in this guide to apply the WebSphere Commerce fix pack 5 to your WebSphere Commerce Studio development environment.
2. Compare the projects that you have made extensions with your team code repository and merge your changes back into the workspace.
3. Rebuild your application.
4. Test your application in the WebSphere test environment.

Deploying your WebSphere Commerce application components to WebSphere Application Server environment

1. Follow the WebSphere Commerce fix pack installation instructions to apply the fix pack to your WebSphere Commerce application running in the WebSphere Application Server environment.
2. Using the instructions in Chapter 9 of the *IBM WebSphere Commerce Programming Guide and Tutorials Version 5.5*, redeploy your customized WebSphere Commerce application modules to the WebSphere Application Server environment.

Chapter 2. Update steps

Installation overview

Important:

Ensure that WebSphere Commerce Developer and WebSphere Commerce are at the same fix pack level. If you apply a fix pack to WebSphere Commerce Developer, apply the same fix pack to WebSphere Commerce. WebSphere Commerce fix packs apply to both WebSphere Commerce Developer and WebSphere Commerce.



The fix pack install consists of the following sections:

- “Prerequisites”
- “Before you update”
- “Updating the toolkit” on page 4
 - “Downloading the fix pack using the Update Manager” on page 4
 - “Applying the fix pack to WebSphere Commerce Studio” on page 4
 - “Installing Interim Fix JR20944” on page 5
 - “Updating the instance configuration files” on page 5
 - “Updating the WebSphere Commerce database” on page 6
 - “Applying the fix pack to your workspace” on page 6
- Chapter 3, “Post update steps,” on page 9
 - “Updating the WebSphere Commerce server data source” on page 10
 - “Updating the Javadoc API documentation” on page 11

Prerequisites

- This update requires your WebSphere Studio Application Developer to be at a minimum level of 5.0.1. This fix pack also supports WebSphere Studio Application Developer versions 5.1 and 5.1.1
- If you are using WebSphere Studio Application Developer version 5.1.1, download the interim fix PQ75634 and install it on the WebSphere Application Server version 5 test environment. The path to the WebSphere Application Server version 5 test environment is *WSAD_installdir*\runtimes\base_v5. You do not need to apply this interim fix to the WebSphere Application Server version 5.1 test environment.

Before you update

-   Move all the files in the *WCStudio_installdir*\Commerce\properties\version directory to the *WCStudio_installdir*\properties\version directory.
- If you are using WebSphere MQ then backup the following file in order to preserve customization made to this file.

  Navigate to the *WCStudio_workspacedir*\WebSphereTestEnvironment\

WebSphereCommerceServerConfiguration.wsc\cells\localhost\nodes\localhost\servers\server1 directory. Back up the resources.xml file.

Express Navigate to the *WCDE_workspacedir\WebSphereTestEnvironment* WebSphereCommerceServerConfiguration.wsc\cells\localhost\nodes\localhost\servers\server1 directory. Back up the resources.xml file.

- Make note of existing database names, user IDs and passwords; installation of the fix pack may overwrite configuration information. This information is needed during -update installation.

Updating the toolkit

Downloading the fix pack using the Update Manager

1. **Business** **Professional** Start WebSphere Studio Application Developer.
Express Start WebSphere Commerce — Express Developer.
2. From the **Help** menu, select **Software Updates** —> **Update Manager**.
3. In the Feature Updates window, right-click **Sites to Visit** and select **New** —> **Site Bookmark**.
4. A New Site Bookmark window will open. In the **Name** field, type a name for the update. For example, 5505. For the rest of the steps, the variable *update_name* will be used to represent the name chosen. In the **URL** field, type:
Business
ftp://ftp.software.ibm.com/software/websphere/commerce/55/5505/studio/BE/site.xml
Professional
ftp://ftp.software.ibm.com/software/websphere/commerce/55/5505/studio/PE/site.xml
Express ftp://ftp.software.ibm.com/software/websphere/commerce/55/5505/studio/EXPRESS/site.xml
5. Click **Finish**. A new entry named *update_name* is created in the Feature Updates window.
6. Select *update_name* —> **WebSphere Commerce Studio V5.5 Fixes** —> **WebSphere Commerce Studio Fix Pack 5.5.0.5**.
7. In the Preview window click **Install** to begin the installation.
8. Click **Next** to confirm the feature you are about to install.
9. Accept the terms of the license agreement and click **Next** to continue.
10. Click **Finish** to begin the installation.
11. If a window opens with a warning: You are about to install an unsigned feature, click **Install**. The installer will begin downloading the update files. When the files have been downloaded the update wizard will start.
Note: Once the update files have been downloaded to your machine you may run the update wizard at another time by navigating to the *WSAD_installdir\Installer* directory and double-clicking **updateWizard.bat**.

Applying the fix pack to WebSphere Commerce Studio

1. If the installer does not automatically start, navigate to the *WSAD_installdir\Installer* directory and double-click **updateWizard.bat** to start the update wizard.
2. Select a language and then click **OK**.

- Click **Next** to continue.
- Click **Specify product information**. Under **Installation directory**, type the following

Business **Professional** `WCStudio_installdir`

Express `WCDE_installdir`

Click **Next**.

- Select **Install fix packs**. Click **Next**.
- Under **Fix Pack Directory**, type in the following:
`WSAD_installdir\Installer\studio`

Click **Next**.

- Select the fix pack to be installed. Click **Next** to continue.
- Click **Next** to install the fix pack.
- Ensure that the installer displays the message The following fix pack was successfully installed. If you do not get this message the installer will indicate the log files to check.
- If you do not have any previously created WebSphere Commerce instances or workspaces, the installation is complete; click **Finish**.
- Click **Yes** if prompted to restart the workbench.
- If you do have previously created WebSphere Commerce instances or workspaces, complete the following sections. If you do not have an existing workspace continue on to Chapter 3, "Post update steps," on page 9 and complete any applicable steps.

Installing Interim Fix JR20944

Interim Fix JR20944 will install files that are not included in the fix pack. Download the JR20944 interim fix package from the WebSphere Commerce 5.5.0.5 download page (<http://www.ibm.com/support/docview.wss?uid=swg24008583>). Once downloaded, extract/unzip the package and follow the extracted readme file for installation instructions.

Updating the instance configuration files

If you have existing WebSphere Commerce instances created, the following steps must be completed in order to update the instance XML files to the fix pack 5 level.

- Navigate to the following directory:

Business **Professional** `WCStudio_installdir\Commerce\bin`

Express `WCDE_installdir\Commerce\bin`

- Run the following command to update your instance configuration files:

Business **Professional** `config_ant.bat -buildfile
WCStudio_installdir\Commerce\xml\config\updateInstances.xml
-DupdateCEP=no`

Express `config_ant.bat -buildfile
WCDE_installdir\Commerce\xml\config\updateInstances.xml -DupdateCEP=no`

- Verify that the script was successfully completed. Check the updateInstance.log file located in the following directory:

Business **Professional** `WCStudio_installdir/Commerce/logs`

► Express *WCDE_installdir/Commerce/logs*

Updating the WebSphere Commerce database

Repeat this section for each WebSphere Commerce instance you have configured on your system.

1. Navigate to the following directory:

► Business ► Professional *WCStudio_installdir\Commerce\bin*

► Express *WCDE_installdir\Commerce\bin*

2. Run the following command:

```
updatedb.bat dbname userId password instanceName dbtype dbhost staging  
locale earPath
```

When you see any of the following names, substitute your required option or system value as described:

- *dbname*: The name of the database to be updated.
- *userId*: The user ID of the user who owns the database.
- *password*: The password of the user.
- *instanceName*: The name of a previously created WebSphere Commerce instance.
- *dbtype*: Either DB2 or Oracle.
- *dbhost*: The host name of the machine where the database resides.
- *staging*: Either Y or N if your database is for the staging server.
- *locale*: The default locale of this instance, and is one of: en_US, fr_FR, es_ES, de_DE, it_IT, pt_BR, ko_KR, ja_JP, zh_CN or zh_TW.
- *earPath*: The path to the current existing workspace.

To verify that the script ran successfully, look at the `schemacreation_fp5_<dbtype>_<time_stamp>.log` file located in the following directory:

► Business ► Professional *WCStudio_installdir/Commerce/logs*

► Express *WCDE_installdir/Commerce/logs*

Applying the fix pack to your workspace

Repeat this section for each WebSphere Commerce Studio workspace you have configured on your system.

1. Navigate to the `WSAD_installdir\Installer` directory.
2. Double-click **updateWizard.bat** to start the installer.
3. Select a language and then click **OK**.
4. Click **Next** to continue.
5. Click **Specify product information**. Under **Installation directory**, type the following:

► Business ► Professional *WCStudio_workspacedir*

► Express *WCDE_workspacedir*

Click **Next**.

6. Select **Install fix packs**. Click **Next**.
7. Under **Fix Pack Directory**, type the following:

WSAD_installdir\Installer\workspace

Click **Next**.

8. Select the fix pack to be installed. Click **Next** to continue.
9. Click **Next** to install the fix pack.
10. Ensure that the installer displays the message The following fix pack was successfully installed. If you do not get this message the installer will indicate the log files to check.
11. Click **Finish** to complete the installation.
12. Click **Yes** if prompted to restart the workbench.
13. The fix pack installation is complete. Move on to Chapter 3, "Post update steps," on page 9 and complete any applicable steps.

Chapter 3. Post update steps

Updating Channel Manager access control policies

Note: You must update the access control policies if you have any existing workspaces or every time you create a new workspace.

Before loading the access control policy file, please ensure that you have not customized the specified policies below. Otherwise, please contact WebSphere Commerce Support for assistance.

1. Checking for customization:
 - a. Connect to the server database
 - b. Ensure that the existing policies have not changed by running the following SQL queries:
 - 1)

```
select mbrgrpname, groupname, grpname from acpolicy p, mbrgrp m,
acactgrp a, acresgrp r where policyname in
('ChannelManagersExecuteStoreStateChangeCommandsOnStoreResource')
and p.member_id = -2001 and p.mbrgrp_id = m.mbrgrp_id and
p.acactgrp_id = a.acactgrp_id and p.acresgrp_id = r.acresgrp_id
```

This should return the following:

 - MBRGRPNAME is 'ChannelManagers'
 - GROUPNAME is 'StoreStateChangeCmdActionGroup'
 - GRPNAME is 'StoreDataResourceGroup'
 - 2)

```
select mbrgrpname, groupname, grpname from acpolicy p, mbrgrp m,
acactgrp a, acresgrp r where policyname in
('ChannelManagersExecuteOrgEntityLockCommandsOnOrgResource')
and p.member_id = -2001 and p.mbrgrp_id = m.mbrgrp_id and
p.acactgrp_id = a.acactgrp_id and p.acresgrp_id = r.acresgrp_id
```

This should return the following:

 - MBRGRPNAME is 'ChannelManagers'
 - GROUPNAME is 'OrgEntityLockActionGroup'
 - GRPNAME is 'OrganizationDataResourceGroup'

If all of the SQL results are as shown, please continue with step 2, otherwise please contact WebSphere Commerce Support for assistance.

2. To load policy updates to the database, complete the following steps:
 - a. Ensure that the `d88838ChMgrAccessControlPolicies.xml` file is in the following location:

```
WCDE_installdir\xml\policies\xml
```

- b. Run the following command:

```
WCDE_installdir\bin\acpload.cmd dbname userID password
d88838ChMgrAccessControlPolicies.xml [schema_name]
```

When you see any of the following names, substitute your required option or system value as described:

- *dbname*: The name of the database to be updated.
- *userId*: The user ID of the user who owns the database.
- *password*: The password of the user who owns the database.
- *schema_name*: The name of your database schema.

- c. Ensure that the script completed successfully:
 - Check that there are no errors in `acpload.log`, located in the `WCDE_installdir\logs` directory.
 - Check that a file with the word “error” in the filename has not been created in the `WCDE_installdir\xml\policies\xml` directory.
- d. Restart the WebSphere Commerce Server for changes to come into effect.

Installing Interim Fix JR20874

Interim Fix JR20874 will install files that are not included in the fix pack. Download the JR20874 interim fix package from the WebSphere Commerce 5.5.0.5 download page (<http://www.ibm.com/support/docview.wss?uid=swg24008583>). Once downloaded, please extract/unzip the package and follow the extracted readme file for installation instructions.

Updating the WebSphere Commerce server data source

Before you can start the WebSphere Commerce server in the WebSphere test environment, you must confirm that the WebSphere Commerce server data source has the correct database name, user name and password.

To update the WebSphere Commerce server data source, do the following:

1. Start WebSphere Commerce Studio by selecting **Start>Programs>IBM WebSphere Commerce Studio>WebSphere Commerce development environment**.
2. In the Java™ 2 Enterprise Edition (J2EE) Hierarchy view of the J2EE Perspective, expand Servers and double-click **WebSphereCommerceServer**. The WebSphereCommerceServer view displays.
3. In the WebSphereCommerceServer view, select the **Data sources** page.
4. On the Data sources page, expand **Server Settings**.
5. In the **JDBC provider list** table, select one of the following, depending on the database you are using as the WebSphere Commerce database.

 DB2 JDBC Provider

 Oracle JDBC Thin Driver


6. In the **Data source defined in the JDBC provider selected above** table, select one of the following, depending on the database you are using as the WebSphere Commerce database.

 jdbc/WebSphere Commerce DB2 DataSource *instance_name*

 jdbc/WebSphere Commerce Oracle DataSource *instance_name*

where *instance_name* is the name of the WebSphere Commerce Studio instance. The default instance name is `Demo_Dev`.

Click **Edit**. The **Modify Data Source** wizard starts.

7. In the **Modify Data Source** window, ensure that fields **Database name**, **Default user ID** and **Default user password** are correct.
8. Click **Finish** to update the information and close the Modify Data Source wizard.
9. 
 - a. In the **Resource properties defined in the data source selected above** table, select **URL** and click **Edit**. An **Edit a resource property** window opens.

- b. In the **Edit a resource property** window, ensure that the field **Value** is correct. It should be of the form:

```
jdbc:oracle:thin:@host_name:port_number:SID
```

where *host_name* is the host name of your machine, *port_number* is the JDBC port and *SID* is the SID of your Oracle instance. For example, if robin is the host name of a machine, 1521 is the port number and orcl is the SID, then for the value field you would enter:

```
jdbc:oracle:thin:@robin:1521:orcl
```

- c. Click **OK**.
10. Save the updates to the configuration by selecting **File→Save WebSphereCommerceServer**.

Note: Updating the WebSphere Commerce Payments server data source is not required.

Plug-in update

If you are using WebSphere Studio Application Developer version 5.1 or version 5.1.1 you must install the Configuration Manager and Ant plug-in.

1. Close WebSphere Studio Application Developer.
2. Download the Configuration Manager plug-in (`config_manager_plugin.zip`) and the Ant plug-in (`ant_plugin.zip`) zip file from the WebSphere Commerce fix pack Web site (<http://www.ibm.com/support/docview.wss?uid=swg24006878>) to a temporary directory.
3. Extract the contents of the `config_manager_plugin.zip` and `ant_plugin.zip` file into the `WSAD_installdir\ eclipse\plugins` directory, replacing any existing files.
4. Navigate to the `WSAD_installdir\ eclipse\plugins\com.ibm.commerce.config.cmlauncher` directory.
5. Open the following two files in a text editor:
`cmlauncher.properties`
`cmlauncher_locale.properties`
Where *locale* is the locale you are using and is one of `en_US`, `fr_FR`, `es_ES`, `de_DE`, `it_IT`, `pt_BR`, `ko_KR`, `ja_JP`, `zh_CN` or `zh_TW`.
6. Look for the `wc.path` and ensure that it points to your WebSphere Commerce home directory.

```
Business Professional wc.path=WCStudio_installdir\Commerce
```

```
Express wc.path=WCDE_installdir\Commerce
```

For example, `wc.path=C:\WebSphere\CommerceDev55\Commerce`. **Note:** The two forward slashes are required.

Updating the Javadoc API documentation

1. Close WebSphere Studio Application Developer.
2. Download the `javadoc.zip` file from the WebSphere Commerce fix pack Web site (<http://www.ibm.com/support/docview.wss?uid=swg24006878>) to a temporary directory.
3. Extract the contents of the `javadoc.zip` file into the `WSAD_installdir\ eclipse\plugins\com.ibm.commerce.api.doc` directory, replacing any existing files.

Chapter 4. Uninstalling the updates

Uninstall Interim Fixes

Before removing the WebSphere Commerce Developer 5.5.0.5 fix pack, you must uninstall the two fix pack interim fixes in the following order:

1. JR20874
2. JR20944

The instructions to uninstall each interim fix are packaged with the interim fix zip file.

Removing the fix pack from WebSphere Commerce Studio

1. Navigate to the `WSAD_installdir\Installer` directory and double-click **updateWizard.bat**.
2. Select a language and then click **OK**.
3. Click **Next** to continue.
4. Click **Specify product information**. Under **Installation directory**, type the following

```
> Business > Professional WCStudio_installdir
> Express WCDE_installdir
```

Click **Next**.

5. Select **Uninstall fix packs**. Click **Next**.
 6. Select the fix pack to be uninstalled. Click **Next** to continue.
 7. Click **Next** to uninstall the fix pack.
 8. Ensure that the installer displays the message The following pack was successfully uninstalled. If you do not get this message the installer will indicate the log files to check.
 9. If you do not have any previously created workspaces or have not applied the fix pack to any previously created workspaces the uninstall is complete; click **Finish**. If you have previously created workspaces then move on to the next section.
-

Removing the fix pack from your workspace

Repeat this section for each workspace the fix pack was applied to.

1. Navigate to the `WSAD_installdir\Installer` directory and double-click **updateWizard.bat**.
2. Select a language and then click **OK**.
3. Click **Next** to continue.
4. Click **Specify product information**. Under **Installation directory**, type the following

```
> Business > Professional WCStudio_workspacedir
> Express WCDE_workspacedir
```

Click **Next**.

5. Select **Uninstall fix packs**. Click **Next**.

6. Select the fix pack to be uninstalled. Click **Next** to continue.
7. Click **Next** to uninstall the fix pack.
8. Ensure that the installer displays the message The following pack was successfully uninstalled. If you do not get this message the installer will indicate the log files to check.
9. Click **Finish**.
10. Navigate to *WSAD_installdir*\eclipse\features.
11. Delete the com.ibm.commerce.fp_5.5.0.5 directory.

Chapter 5. Troubleshooting

Error running `acpload.cmd` - The input line is too long

You may encounter an error claiming "The input line is too long" when executing the `acpload.cmd` post-installation step. The commands called in the `acpload.cmd` script are too long for the Windows command line because of large variables used. This is usually caused by a large `CLASSPATH` variable.

To resolve the problem, you must redefine the `CLASSPATH` variable in your command (DOS) environment to reduce its size. Ensure that you do not remove entries for your database software. In your command window, you can reset the `CLASSPATH` variable with the `set` command.

For example:

```
C:\WebSphere\CommerceServer\bin\>set CLASSPATH='...'
```

Where `'...'` represents the path entries you choose to use in your class path. After the `CLASSPATH` variable is redefined, run the `acpload.cmd` again as documented in the post-installation section of the document.

Technotes

The following technote provides a link to all technotes related to WebSphere Commerce 5.5 and WebSphere Commerce — Express Developer. Technotes can be found by using the technote number to search the IBM Web site (www.ibm.com).

Table 1. IBM WebSphere Commerce Studio Fix Pack Technotes

Title	Number	Description
WebSphere Commerce 5.5.0.5 Master Technote	1167171	A single technote that contains links to all technotes related to WebSphere Commerce 5.5 and WebSphere Commerce — Express. Technotes addressed by this fix pack, and any new technotes, will be included in this Master Technote. http://www.ibm.com/support/docview.wss?uid=swg21167171

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