

# Customizing Product Management tools in WebSphere Commerce Accelerator

Version 5.5



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#### Note:

Before using this information and the product it supports, be sure to read the general information in the Notices section.

#### First Edition, April 2004

This edition applies to Version 5.5 of IBM WebSphere Commerce Business Edition, IBM WebSphere Commerce Professional Edition, IBM WebSphere Commerce — Express Edition, and to all subsequent releases and modifications until otherwise indicated in new editions. Make sure you are using the correct edition for the level of the product.

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#### About this document

## **Document description**

This document serves as an overview of the concepts involved in customizing the WebSphere® Commerce Accelerator Product Management tools for catalogs. It addresses the high level architecture of how the business users interact with the user interface. Supplementary documents, released as they become available, build upon the knowledge developed in the *WebSphere Commerce Accelerator Customization Guide*, and provide the detailed information required to customize the particular components of the WebSphere Commerce Accelerator. These supplementary documents also act as a resource, listing the components and assets upon which the various components depend.

# Knowledge requirements

To customize the WebSphere Commerce Accelerator, you require knowledge of the following:

- HTML and XML
- Structured Query Language (SQL)
- Java<sup>TM</sup> programming
- JavaServer Pages (JSP) technology
- IBM® WebSphere Commerce Studio or WebSphere Commerce Express Developer Edition

Refer to the *WebSphere Commerce Programming Guide and Reference* for more information on customizing WebSphere Commerce. This book is available from the Technical Library Web site (www.ibm.com/software/commerce/library/).

# Conventions used in this document

This document uses the following highlighting conventions:

**Boldface type** indicates commands or graphical user interface (GUI) controls such as names of fields, buttons, or menu choices.

Monospaced type indicates examples of text you enter exactly as shown, as well as directory paths.

*Italic type* is used for emphasis and variables for which you substitute your own values.



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.

#### Path variables

This document uses the following variables to represent directory paths:

#### WC installdir

This is the installation directory for WebSphere Commerce. The following are the default installation directories for WebSphere Commerce on various operating systems:

- AIX /usr/WebSphere/CommerceServer55/
- QIBM/ProdData/CommerceServer55/
- Solaris Linux /opt/WebSphere/CommerceServer55/
- Windows C:\Program Files\WebSphere\CommerceServer55\

#### WAS\_installdir

This is the installation directory for WebSphere Application Server. The following are the default installation directories for WebSphere Application Server on various operating systems:

- AIX /usr/WebSphere/AppServer/
- QIBM/ProdData/WebA55/
- Solaris Linux / opt/WebSphere/AppServer/
- Windows C:\Program Files\WebSphere\AppServer\

#### WCDE\_installdir

This is the installation directory for the WebSphere Commerce - Express development environment. The default installation directory for the WebSphere Commerce - Express development environment is C:\WebSphere\CommerceDev55.

# Updates to this document

The latest version of this document is available as a PDF file from the Technical Library Web site.

# Chapter 1. Customizing catalogs in the WebSphere Commerce Accelerator

This document discusses how to customize the Product Management tools user interface in the WebSphere Commerce Accelerator. These tasks provide additional catalog functionality. This document should only be read after you have completed reading the primary *WebSphere Commerce Accelerator Customization Guide*, as it builds upon information and concepts contained in that document.

This document provides customization details for the following components in the Product Management tools:

- using keyword search capabilities for catalog entries,
- · creating view tabs and columns,
- · customized product information.

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# Chapter 2. Product Management tools search

#### **Architecture**

The Catalog Entry Search page provides an entry point to the catalog tools available in the WebSphere Commerce Accelerator, including the Product Management tools dynamic table, and the user interfaces for merchandising associations, and bundles and kits.

The Catalog Entry Search page collects search criteria from a user and forwards the data to the corresponding tooling page. The page will activate the search data bean using the given data and a set of catalog entry IDs will be returned. The tooling page will then populate the CatalogEntryDataBean or the CatalogEntryAccessBean using these catalog entries, which are on the results page.

The search data bean supports searching on keywords but the JSP file does not use this feature. An additional search field may be useful to customize search results.

#### **Customization scenario**

You can customize the Catalog Entry Search page by supporting a keyword search field. You will need to modify two JSP files — CatEntrySearchDialog.jsp and CatalogSearchUtil.jsp — which use the AdvancedCatEntrySearchListDataBean.

# Searching by keyword

This scenario customizes the Catalog Entry Search page by supporting keyword search, providing a new level of search results.

- 1. To protect your customized data from being overwritten during migration to a future version, or during installation of a future fix pack, or some similar event, it must be created in a safe place, separate from the WebSphere Commerce assets. This procedure creates a custom version of the CatEntrySearchDialog.jsp file within the WebSphere Commerce development environment:
  - a. Open the WebSphere Commerce development environment (Start > Programs > IBM WebSphere Commerce development environment) and switch to the
    - Business J2EE Perspective Project Navigator view Express Project Navigator view.
  - b. Navigate to the CommerceAccelerator project.
  - c. Navigate to the Web Content/tools folder.
  - d. Right-click on the folder, and select **New**, and then **Folder**. In the **Folder** name field, type custom.
  - e. Navigate to the Web Content/tools/catalog folder.
  - f. Right-click on the CatEntrySearchDialog.jsp file, and select Copy.
  - g. Right-click on the Web Content/tools/custom folder, and select Paste.
  - h. Navigate to the Web Content/tools/custom folder.
  - i. Double-click the new file to open it in a text editor.
  - j. Create the input box in the Catalog Entry Search page. Locate the following code section:

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```
<TD COLSPAN="3"><%=categoryFindNLS.get("catalogSearch name" %></TD>
</TR>
<TR>
 <TD><INPUT TYPE="text" NAME="name" CLASS="input" MAXLENGTH="64"></TD>
 <TD></TD>
 <TD>
      <SELECT NAME="nameOp" CLASS="input">
       <OPTION VALUE="LIKE"><%=categoryFindNLS.get("catalogSearch_operator_like")%>
       </OPTION>
       <OPTION VALUE="EQUAL"><%=categoryFindNLS.get("catalogSearch_operator_exact")%>
        </OPTION>
       </SELECT>
 </TD>
</TR>
<TR>
 <TDCOLSPAN=3><INPUT TYPE="checkbox">
NAME="searchScope"><%=categoryFindNLS.get("catalogSearch_include_desc")%></TD>
<TR><TD></TD></TR>
```

Immediately under this section, add the following code lines:

k. Store the data relating to the keyword into the same object that stores all the parameters. Locate the following code section in the findAction() function:

Immediately after this section, add the following code lines:

```
urlPara.keyword
urlPara.keywordOp
= document.all.keyword.value;
urlPara.keywordOp.value;
```

- I. Save the file, but do not close the development environment.
- 2. Register the CatEntrySearchDialog.jsp file into the VIEWREG table with the following SQL statement:

- 3. This procedure creates a custom version of the CatalogSearchUtil.jsp file within the WebSphere Commerce development environment:
  - a. In the WebSphere Commerce development environment, navigate to the CommerceAccelerator/Web Content/tools/catalog folder.
  - b. Right-click on the CatalogSearchUtil.jsp file, and select **Copy**.
  - c. Right-click on the Web Content/tools/custom folder and select Paste.
  - d. Navigate to the Web Content/tools/custom folder.
  - e. Double-click the new file to open it in a text editor.

f. Accept the keyword as a parameter to be passed into the search. Locate the following code in the setCatentryParameters() function: public void setCatentryParameters(JSPHelper helper, AdvancedCatEntrySearchListDataBean catEntrySearchDB) { String catalogID, name, nameOp, searchScope, displayNum, sortBy, storeId, languageId;

String startCategory, startCategoryOp, sku, skuOp, manuNum, manuNumOp, manuName,

String searchProduct, searchItem, searchPackage, searchBundle, searchDynamicKit,

Immediately under this section, add the following line:

manuNameOp, published, notPublished;

String keyword, keywordOp;

startIndex;

g. Obtain the value of the keyword from the input. Locate the following code in the setCatentryParameters() function:

```
storeId = helper.getParameter("storeId");
languageId = helper.getParameter("languageId");
name = helper.getParameter("name");
nameOp = helper.getParameter("nameOp");
```

Immediately under this section, add the following code lines:

```
keyword
keywordOp = helper.getParameter("keyword");
keywordOp = helper.getParameter("keywordOp");
```

h. Trim the keyword input. Locate the following code in the setCatentryParameters() function:

}

Immediately under this section, add the following code lines:

```
if (keyword != null) {
          keyword = keyword.trim();
```

i. Interpret the keyword input. Locate the following code in the setCatentryParameters() function:

```
if (name != null && !name.equals("")) {
      catEntrySearchDB.setSearchTerm(name);
       if (nameOp.equals(SEARCH OPERATOR EQUAL)) {
            catEntrySearchDB.setSearchTermOperator(SEARCH OPERATOR EQUAL);
            catEntrySearchDB.setSearchTermCaseSensitive(SEARCH CASE SENSITIVE YES);
            catEntrySearchDB.setSearchType("EXACT");
            catEntrySearchDB.setSearchTermOperator(SEARCH OPERATOR LIKE);
            catEntrySearchDB.setSearchTermCaseSensitive(SEARCH_CASE_SENSITIVE_NO);
      // search scope
       //By default in the catalog entry search databean, it is set to 1, which means
         search for name and short description
       //Set it to a 2 means search on the name field only
      // 1 = search on name + short description
      // 2 = search on name only
      if (new Boolean (searchScope).booleanValue())
          catEntrySearchDB.setSearchTermScope(new Integer (1));
      } else {
       catEntrySearchDB.setSearchTermScope(new Integer (2));
```

Immediately under this section, add the following code:

```
// keyword. Type can be "ANY", "ALL", or "EXACT"
if (keyword != null && !keyword.equals("")) {
    catEntrySearchDB.setKeyword(keyword);
    if (keywordOp.equals(SEARCH_OPERATOR_EQUAL)) {
        catEntrySearchDB.setKeywordOperator(SEARCH_OPERATOR_EQUAL);
        catEntrySearchDB.setKeywordCaseSensitive(SEARCH_CASE_SENSITIVE_YES);
        catEntrySearchDB.setKeywordType("EXACT");
    } else {
        catEntrySearchDB.setKeywordOperator(SEARCH_OPERATOR_LIKE);
        catEntrySearchDB.setKeywordCaseSensitive(SEARCH_CASE_SENSITIVE_NO);
        catEntrySearchDB.setKeywordType("ANY");
    }
}
```

- j. Save the file, but do not close the development environment.
- 4. This procedure creates a new properties file, in a new folder, within the WebSphere Commerce development environment:
  - a. In the WebSphere Commerce development environment, navigate to the WebSphereCommerceServerExtensionsLogic project.
  - b. Navigate to the src folder.
  - c. Right-click on the src folder, and select New, and then Package.
  - d. In the **Name Field** on the New Java Package dialog, type a unique name. For the purposes of this scenario, type com.myCompany.catalog.Properties, where myCompany represents a custom directory name. Packages created by IBM, and included in WebSphere Commerce, follow a naming convention which begins with "com.ibm...". Click **Finish** to create the package.
  - e. Right-click on the com.*myCompany*.catalog.properties folder, and select **New**, and then **Other**. In the New dialog, click **Simple**, **File**, and then **Next**.
  - f. In the File name field, type a unique name. For the purposes of this scenario, type CategoryNLS\_locale.properties, where locale represents the locale from which your business users will access the WebSphere Commerce Accelerator.
  - g. Click **Finish** to create the file and open it in an editor.
  - h. To simplify future maintenance, it is a good idea to include comments in the new file. These comments are optional, though strongly recommended. At the top of this file, include some comments similar to the following to clarify the file's purpose:

i. Save the file, but do not close the development environment.

This step addresses the label in the language for the locale you specified why you created the file. If you wanted to enter a string in more than one language, you would have to perform this step for each language, creating a file for each corresponding locale.

If a business user attempts to access this page using a locale for which there is no explicit support, the tools framework will default to the CategoryNLS.properties file, which will not contain a string. You should ensure that you create a version of the properties file for every locale from which you expect users to access it.

5. When you create a custom properties file, you must update the appropriate resources.xml file so that the new file is available to the tools within the component. Updating the appropriate resources.xml file is not done within the development environment. To make this update, do the following:

- a. Copy the WCDE\_installdir/xml/tools/catalog/resources.xml file, and move the file to the *myCustomXML*/tools/catalog directory.
- b. Open the new resources.xml file in a text editor.
- c. Scroll down to the resourceBundle section of the file, and update the code so that it matches the following sample:

```
<resourceBundle name="CategoryNLS">
     <bundle>com.ibm.commerce.tools.catalog.properties.CategoryNLS</bundle>
     <bundle>com.myCompany.catalog.Properties.CategoryNLS</bundle>
</resourceBundle>
```

where myCompany represents your custom directory name.

- d. Save the file.
- 6. In these four JSP files (KitItemPickListLayout.jsp, KitLayout.jsp, MAssocLayout.jsp, ProductUpdateDetail.jsp), update the paths to the CatalogSearchUtil.jsp file. Do the following:
  - a. Navigate to the CommerceAccelerator project.
  - b. Navigate to the Web Content/tools/catalog folder.
  - **c.** Right-click on the KitItemPickListLayout.jsp file, and select **Copy**.
  - d. Right-click on the Web Content/tools/custom folder, and select **Paste**.
  - e. Navigate to the Web Content/tools/custom folder.
  - f. Double-click the new file to open it in a text editor.
  - g. Search for CatalogSearchUtil.jsp. Replace the current <%@include file path</p> line with

```
<%@include file="../custom/CatalogSearchUtil.jsp" %>
```

- h. Save and close the file.
- i. Repeat these steps for the KitLayout.jsp file, MAssocLayout.jsp file, and ProductUpdateDetail.jsp file.
- 7. Register the KitItemPickListLayout.jsp file, KitLayout.jsp file, MAssocLayout.jsp file, and ProductUpdateDetail.jspCatalogSearchUtil.jsp file into the VIEWREG table with the following SQL statements:

```
update\ viewreg\ set\ PROPERTIES='docname=tools/custom/KitItemPickListLayout.jsp'where\ VIEWNAME\ ='KitItemPickListLayoutView'
update viewreg set PROPERTIES='docname=tools/custom/KitLayout.jsp'
where VIEWNAME = 'KitLayoutView'
update viewreg set PROPERTIES='docname=tools/custom/MassocLayout.jsp'
where VIEWNAME = 'MassocLayoutView'
update viewreg set PROPERTIES='docname=tools/custom/ProductUpdateDetail.jsp'
where VIEWNAME = 'ProductUpdateDetail'
```

- 8. Creating a custom XML file in a custom directory requires that you update the instance XMLPath setting. This setting governs the locations in which the application will attempt to locate XML files. It functions in a manner similar to a Java classpath setting. This is not done within the development environment. To update the XMLPath setting, do the following:
  - a. Change to the WCDE\_installdir/instances/instance\_name/xml/ directory.
  - b. Open the instance\_name.xml file in a text editor.
  - c. Scroll down to the

ToolsGeneralConfig

section of the file, and update the XMLPath by prepending the following to the value:

```
myCustomXML/tools;
```

where *myCustomXML* represents the absolute path to your custom directory, including the drive letter.

d. Save the file.

Changing the XMLPath setting in the instance configuration file enable this customization only for the single instance. All other instances will not include this new button. If you have multiple instances to which you want to apply the customization, you must repeat this step for each instance.

#### Attention

Applying fix packs, or performing migration may overwrite any changes made to this file.

- 9. Test your customization in your development environment. To complete this test, do the following:
  - a. Stop and restart your development WebSphere Commerce instance. Refer to the *WebSphere Commerce Programming Guide and Tutorials* for details about how to stop and restart this instance.
  - b. Launch the WebSphere Commerce Accelerator.
  - c. From the Business Product or Professional Merchandise menu, select Find Catalog Entries. The new Keyword field should display on the Catalog Entry Search page.
  - d. Search for a catalog entry using the **Keyword** field. Choose a keyword not found in the catalog entry name or short description, such as an attribute (type of material, color, size, format). If you receive the correct results, then the customization has been a success, and you can proceed to propagate all of the changes you made to the development environment to the production environment as detailed in the following steps. If this search fails, you will have to determine the cause of the error, and debug.
- 10. Export the updated assets:
  - a. Navigate to the Web Content/tools/custom folder.
  - b. Right-click the CatEntrySearchDialog.jsp file and select **Export**. The Export wizard opens.
  - c. In the Export wizard, do the following:
    - 1) Select File system and click Next.
    - 2) Select the following JSP files:
      - CatEntrySearchDialog.jsp
      - CatalogSearchUtil.jsp
      - KitItemPickListLayout.jsp
      - KitLayout.jsp
      - MAssocLayout.jsp
      - ProductUpdateDetail.jsp
    - 3) Navigate to the

WebSphereCommerceServerExtensionsLogic/src/com/myCompany/catalog/properties folder, and select the CategoryNLS\_locale.properties file

- 4) Select Create directory structure for selected files.
- 5) In the To directory field, type a temporary directory into which these resources will be placed. For example, type C:\ExportTemp\StoreAssets.

- 6) Click Finish.
- 7) If prompted, create the specified directory.
- 11. Transfer the updated assets to the production environment. To transfer the files, do the following:
  - a. Stop the WebSphere Commerce instance that is running within WebSphere Application Server. Refer to the WebSphere Commerce Installation Guide for your platform and database for details about how to stop this instance.
  - b. On the target machine, locate the WebSphere Commerce instance .ear directory. The following paths are an example of this directory:

QIBM/ProdData/WebAsAdv4//installedApps/ WAS\_node\_name/ WC\_instance\_name.ear

► AIX Linux Solaris WAS\_installdir/installedApps/cellName/ WC\_instance\_name.ear

Windows WAS\_installdir\installedApps\cellName\ WC\_instance\_name.ear where:

instance\_name

The name of your WebSphere Commerce instance.

▶ 400 WAS node name

The iSeries<sup>™</sup> system where the WebSphere Application Server product is installed.

cellName

The WebSphere Application Server cell name.

c. Copy the files exported in step 10, into the following directories:

#### CatEntrySearchDialog.jsp

WC\_instance\_name.ear/CommerceAccelerator.war/tools/custom

#### CatalogSearchUtil.jsp

WC\_instance\_name.ear/CommerceAccelerator.war/tools/custom

#### KitItemPickListLayout.jsp

WC\_instance\_name.ear/CommerceAccelerator.war/tools/custom

#### KitLayout.jsp

WC\_instance\_name.ear/CommerceAccelerator.war/tools/custom

#### MAssocLayout.jsp

WC\_instance\_name.ear/CommerceAccelerator.war/tools/custom

#### ProductUpdateDetail.jsp

WC\_instance\_name.ear/CommerceAccelerator.war/tools/custom

#### CategoryNLS\_locale.properties

WC\_instance\_name.ear/properties/com/myCompany/catalog /properties

d. Transfer the following file to your production environment:

#### WCDE\_installdir/xml/tools/catalog/resources.xml

Copy to WC\_installdir/xml/tools/catalog

- e. Update the WC\_installdir/instances/instance\_name/xml/instance\_name.xml file, so that it reflects the updated XMLPath value.
- f. Propagate your changes to the VIEWREG table in the database to the production database.

g. Restart your WebSphere Commerce instance. Refer to the *WebSphere Commerce Installation Guide* for your platform and database for details about how to start this instance.

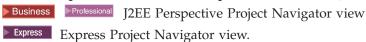
#### **Assets**

The catalog search component is based upon the following assets.

#### JSP assets

The catalog JSP assets listed in the following table should be modified using the following procedure:

1. Open the WebSphere Commerce development environment (**Start > Programs > IBM WebSphere Commerce development environment**) and switch to the



- 2. Navigate to the CommerceAccelerator project.
- 3. Navigate to the Web Content/tools/catalog directory.
- 4. Create a custom folder.
- 5. Copy the target file from the appropriate component folder to your custom folder.
- 6. Double-click the new file in the custom folder to open it in the editor window.
- 7. Update the file as necessary.
- 8. Update the VIEWREG database table to point to the customized version of the file.

The following table lists all of the catalog search JSP files.

Table 1. Catalog JSP assets

Page	JSP file	Properties file
Catalog Entry Search Page	CatEntrySearchDialog.jsp	WC_installdir/instance.ear/properties/com/ibm/commerce/tools/catalog/properties
Search Criteria collection	CatalogSearchUtil.jsp	/CategoryNLS_locale.properties

#### XML assets

The catalog search XML assets listed in the following table should be modified using the following procedure:

- 1. Create a new directory in which you will store your custom XML files.
- 2. Copy the XML file from your *WC\_installdir*/xml/tools/catalog directory, into your custom directory.
- 3. Open the file in an editor and make any necessary changes.
- 4. Update the XMLPath value in the *instance\_name*.xml file such that you prepend the custom directory path to the existing list of paths.

The following table lists all of the catalog search XML files that may require updates.

Table 2. Catalog XML files

XML file name	Description
resources.xml	Maps the different XML files used by the catalog to their name spaces.
catEntrySearchDialog	Defines the menu used on the Catalog Entry Search page.

# **Database assets**

The catalog search component makes use of data stored in the database table described in the following table:

Table 3. Catalog database tables

Table name	Column name	Additional information
CATENTDESC	KEYWORD	The catalog entry keyword.

# Chapter 3. Product Management tools tabs and columns

#### **Architecture**

The Product Line Update tool, also called the dynamic table, in WebSphere Commerce serves to create, update, delete and organize catalog entries. It consists of user interface JSP pages that provide a table for visually editing catalog entry data and a controller command that accepts XML input from the user interface and stores the data into the database.

The number of tabs, and columns inside a tab, is controlled by the CatalogPageList.xml file. The Product Management tools are constructed from the ProductUpdateDialog.jsp file, which is composed of three different frames:

- ProductUpdateTitle.jsp
- ProductUpdateDetail.jsp
- ProductUpdateBottom.jsp (which contains the URL command to call when saving the data)

The Product Management tools also use the CatalogCommonFunctions.js file, which provides the JavaScript<sup>™</sup> functions needed by the tool.

#### **Customization scenarios**

### Customizing tabs and columns

#### **Important**

This scenario and the previous keyword search scenario both use the same user interface field to complete the customization tasks. Each set of required changes cannot coexist. Only one customization scenario can be supported at a time.

You can customize the view tabs and columns for the Product Management tools pages. In this scenario, the Keyword column from the Images tab will be changed to contain medium sized images. Once the tasks are complete, the Images tab will have the following three columns, in this order:

- · Thumbsize Image
- Medium Image
- Full Size Image

You will need to customize the CatalogPageList.xml file and the ProductNLS\_locale.properties file.

- 1. Create a new directory. For the purposes of this scenario, name the directory /myCustomXML/, where myCustomXML represents some a directory name.
- 2. Repeat this process until you have created the following path: /myCustomXML/tools/catalog/
- 3. Update the Catalog Page List XML file to change the name and the order of the columns in the Images tab in the Product Management tools. To protect your customized data, it must be created in a safe place, separate from the WebSphere Commerce assets. This procedure creates a new Catalog Page List

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definition file, in a new folder. This is not done within the development environment. To add the column, do the following:

- a. Change to the WC\_installdir/xml/tools/ directory.
- b. Create a new directory. For the purposes of this scenario, name the directory myCatalog.
- c. Make a copy of the WC\_installdir/xml/tools/catalog/CatalogPageList.xml file. Move the file to the /myCustomXML/tools/catalog/ directory.
- d. Open the myCatalogPageList.xml file in a text editor.
- e. Move the following line:

```
<column id="keyword" tabid="4" type="TEXTAREA" CLASS="dtable" input="STRING"</pre>
maxsize="254" width="30%" title="productUpdateDetail Keyword" other=""/>
```

#### between these two lines:

```
<column id="thumbnailImage" tabid="4" type="TEXTAREA" CLASS="dtable" input="STRING"</pre>
maxsize="254" width="250px" title="productUpdateDetail_ThumbNail"
other="ONCHANGE=fcnOnChangeThumbnail(this)"/>
```

```
<column id="fullImage" tabid="4" type="TEXTAREA" CLASS="dtable" input="STRING"</pre>
maxsize="254" width="250px" title="productUpdateDetail_FullImage" other=""/>
```

f. In the column id="keyword" segment, change

```
title="productUpdateDetail Keyword"
```

title="productUpdateDetail MediumImage"

You should see the following changes:

```
<column id="thumbnailImage" tabid="4" type="TEXTAREA" CLASS="dtable" input="STRING"</pre>
    maxsize="254" width="250px" title="productUpdateDetail ThumbNail"
    other="ONCHANGE=fcnOnChangeThumbnail(this)"/>
```

```
<column id="keyword" tabid="4" type="TEXTAREA" CLASS="dtable" input="STRING"</pre>
    maxsize="254" width="30%" title="productUpdateDetail MediumImage" other=""/>
```

```
<column id="fullImage" tabid="4" type="TEXTAREA" CLASS="dtable" input="STRING"</pre>
    maxsize="254" width="250px" title="productUpdateDetail FullImage" other=""/>
```

- g. Save the file.
- 4. When you create a custom XML file to update the user interface, you must update the appropriate resources.xml file so that the new user interface displays as expected. This is not done within the development environment. To make this update, do the following:
  - a. Change to the WC\_installdir/xml/tools/catalog directory.
  - b. Open the resources.xml file in an editor.
  - c. Scroll down to the resourceXML section of the file, and update the catalog list page entry so that it matches the following sample:

```
<resourceXML name="CatalogPageList"</pre>
     file="myCustomXML/tools/catalog/CatalogPageList.xml"
```

- d. Save the file.
- 5. Override the existing ProductNLS en US.properties file to add the information for the changed columns in the Images tab. To protect your customized data from being overwritten during migration to a future version, or during installation of a future fix pack, or some similar event, it must be created in a

safe place, separate from the WebSphere Commerce assets. This procedure creates a new properties file, in a new folder, within the WebSphere Commerce development environment:

a. Open the WebSphere Commerce development environment (Start > Programs > IBM WebSphere Commerce development environment) and switch to the

Business J2EE Perspective Project Navigator view

Express Project Navigator view.

- b. Navigate to the WebSphereCommerceServerExtensionsLogic project.
- c. Navigate to the src folder.
- d. Right-click on the src folder, and select New, and then Package.
- e. In the **Name Field** on the New Java Package dialog, type a unique name. For the purposes of this scenario, type com.myCompany.catalog.Properties, where myCompany represents a custom directory name. Packages created by IBM, and included in WebSphere Commerce, follow a naming convention which begins with "com.ibm...".
- f. Right-click on the com.*myCompany*.catalog.properties folder, and select **New**, and then **Other**. In the New dialog, click **Simple**, **File**, and then **Next**.
- g. In the **File name** field, type ProductNLS\_locale.properties, where locale represents your locale from which your business users will access the WebSphere Commerce Accelerator.
- h. Click Finish to create the file and open it in a text editor.
- i. To simplify future maintenance, it is a good idea to include comments in the new file. This is optional, though strongly recommended. At the top of this file, include some comments similar to the following to clarify the purpose of the file:

- j. Add the following line: productUpdateDetail\_MediumImage=Medium Image
- k. Save the file.
- 6. When you create a custom properties file, you must update the appropriate resources.xml file so that the new file is available to the tools within the component. This is not done within the development environment. To make this update, do the following:
  - a. Change to the WC\_installdir/xml/tools/catalog directory.
  - b. Open the resources.xml file in a text editor.
  - c. Scroll down to the resourceBundle section of the file, and update the code so that it matches the following sample:

where myCompany represents your custom directory name.

- d. Save the file.
- 7. Test your customization in your development environment. To complete this test, do the following:

- a. Stop and restart your development WebSphere Commerce instance. Refer to the *WebSphere Commerce Programming Guide and Tutorials* for details about how to stop and restart this instance.
- b. Launch the WebSphere Commerce Accelerator.
- c. From the Business Product or Professional Merchandise menu, select Product Management.
- d. Click the Images tab. The three columns Thumbsize Image, Medium Image, Full Size Image should display in this order. If you receive the correct results, then the customization has been a success, and you can proceed to propagate all of the changes you made to the development environment to the production environment as detailed in the following steps. If this check fails, you will have to determine the cause of the error, and debug.
- 8. Export the updated assets:
  - a. Navigate to the WebSphereCommerceServerExtensionsLogic/src/com/myCompany/catalog/properties folder, and select the ProductNLSlocale.properties file.
  - b. Right-click the ProductNLSlocale.properties file and select **Export**. The Export Wizard opens. In the Export wizard, do the following:
    - 1) Select Create directory structure for selected files.
    - 2) In the **To directory** field, enter a temporary directory into which these resources will be placed. For example, enter C:\ExportTemp\StoreAssets.
    - 3) Click Finish.
    - 4) If prompted, create the specified directory.
- 9. Transfer the updated assets to the production environment. To transfer the files, do the following:
  - a. Stop the WebSphere Commerce instance that is running within WebSphere Application Server. Refer to the *WebSphere Commerce Installation Guide* for your platform and database for details about how to stop this instance.
  - b. On the target machine, locate the WebSphere Commerce instance .ear directory. The following paths are an example of this directory:

QIBM/ProdData/WebAsAdv4/installedApps/ WAS\_node\_name/WC\_instance\_name.ear

► AIX ► Linux ► Solaris /WAS\_installdir/installedApps/cellName/WC\_instance\_name.ear

Windows WAS\_installdir\installedApps\cellName\ WC\_instance\_name.ear where:

instance\_name

The name of your WebSphere Commerce instance.

▶ 400 WAS node name

The iSeries system where the WebSphere Application Server product is installed.

cellName

The WebSphere Application Server cell name.

c. Transfer the following files from your production environment:

/myCustomXML/tools/catalog/CatalogPageList.xml Copy to WC\_installdir/xml/tools/custom

#### WCDE\_installdir/xml/tools/catalog/resources.xml

Copy to WC\_installdir/xml/tools/catalog

- d. Update the *WC\_installdir*/instances/instance\_name/xml/instance\_name.xml, so that it reflects the updated XMLPath value.
- **e**. Propagate your changes to the VIEWREG table in the database to the production database.
- f. Restart your WebSphere Commerce instance. Refer to the *WebSphere Commerce Installation Guide* for your platform and database for details about how to start this instance.

# Supporting customized product information

This section adds support for catalog entry inventory information. The example illustrates how to customize the JSP files and create a new command to reuse the product line update command and fulfill additional tasks. Once completed, you will be able to update the catalog entry inventory for ItemBean and PackageBean.

1. Create a new directory.



If you completed the preceding scenario on customizing tabs and columns, then this directory will already exist.

For the purposes of this scenario, name the directory /myCustomXML/, where myCustomXML represents some a directory name.

- 2. Repeat this process until you have created the following path: /myCustomXML/tools/catalog/
- 3. Update the Catalog Page List XML file to add a new tab with two columns in the Product Management tools. To protect your customized data, it must be created in a safe place, separate from the WebSphere Commerce assets. This procedure creates a new Catalog Page List definition file, in a new folder. This is not done within the development environment. To add the column, do the following:
  - a. Change to the WC\_installdir/xml/tools/ directory.
  - b. Create a new directory. For the purposes of this scenario, name the directory myCatalog.
  - c. Make a copy of the WC\_installdir/xml/tools/catalog/CatalogPageList.xml file and move it to the /myCustomXML/tools/catalog directory.
  - d. Open the CatalogPageList.xml file in a text editor.
  - e. Locate the following section:

Add the following line to create a new tab called **Inventory**:

```
<tab id="Inventory" title="ProductUpdateTitle Tab 6"/>
```

f. Locate the following section:

```
<column id="customField5" tabid="5" type="TEXTAREA" CLASS="dtable"
input="STRING" maxsize="254" width="40%" title="productUpdateDetail_Field5"
other="" />
```

Add the following lines to create two columns, called **Inventory Flag** and **Inventory Quantity**:

```
<column id="inventoryFlag" tabid="6" type="TEXTAREA" CLASS="dtable"
input="STRING" maxsize="64" width="50%" title="productUpdateDetail_InventoryFlag"
other="ONCHANGE=fcnIntegerOnChange(this)" />
```

```
<column id="inventoryQuantity" tabid="6" type="TEXTAREA" CLASS="dtable"
input="STRING" maxsize="64" width="50%" title="productUpdateDetail_InventoryQuantity"
other="ONCHANGE=fcnNumberOnChange(this)" />
```

- g. Save the file.
- 4. When you create a custom XML file to update the user interface, you must update the appropriate resources.xml file so that the new user interface displays as expected. This is not done within the development environment.



If you completed the preceding scenario on customizing tabs and columns, then this update will already exist.

To make this update, do the following:

- a. Change to the WC\_installdir/xml/tools/catalog directory.
- b. Open the resources.xml file in an editor.
- **c.** Scroll down to the resourceXML section of the file, and update the catalog list page entry so that it matches the following sample:

```
<resourceXML name="CatalogPageList"
    file="/myCustomXML/tools/catalog/CatalogPageList.xml</pre>
```

- d. Save the file.
- 5. Modify the ProductNLS\_en\_US.properties file to add the information for the new tab and its columns:
  - a. Open the WebSphere Commerce development environment (Start > Programs > IBM WebSphere Commerce development environment) and switch to the

- b. Navigate to the WebSphereCommerceServerExtensionsLogic project.
- c. Navigate to the src folder.
- d. Right-click on the src folder, and select New, and then Package.
- e. In the **Name Field** on the New Java Package dialog, type a unique name. For the purposes of this scenario, type com.myCompany.catalog.Properties, where myCompany represents a custom directory name. Packages created by IBM, and included in WebSphere Commerce, follow a naming convention which begins with "com.ibm...".
- f. Right-click on the com.*myCompany*.catalog.properties folder, and select **New**, and then **Other**. In the New dialog, click **Simple**, **File**, and then **Next**.
- g. In the **File name** field, type ProductNLS\_locale.properties, where locale represents your locale from which your business users will access the WebSphere Commerce Accelerator.



If you completed the preceding scenario on customizing tabs and columns, then this update will already exist.

- h. Click **Finish** to create the file and open it in a text editor.
- i. To simplify future maintenance, it is a good idea to include comments in the new file. This is optional, though strongly recommended. At the top of this file, include some comments similar to the following to clarify the purpose of the file:

```
# Customized properties for catalogs
# New inventory tab for the Product Management tools
```

j. Add the following lines in the properties file:

```
ProductUpdateTitle Tab 6=Inventory
productUpdateDetail_InventoryFlag=Inventory Flag
productUpdateDetail InventoryQuantity=Quantity
```

- k. Save the file, but do not close the development environment.
- 6. When you create a custom properties file, you must update the appropriate resources.xml file so that the new file is available to the tools within the component. This is not done within the development environment.



If you completed the preceding scenario on customizing tabs and columns, then this updated will already exist.

To make this update, do the following:

- a. Change to the WC\_installdir/xml/tools/catalog directory.
- b. Open the resources.xml file in a text editor.
- c. Scroll down to the resourceBundle section of the file, and update the code so that it matches the following sample:

```
<resourceBundle name="ProductNLS">
     <bundle>com.ibm.commerce.tools.catalog.properties.ProductNLS</bundle>
     <bundle>com.myCompany.catalog.properties.ProductNLS</bundle>
</resourceBundle>
```

where myCompany represents your custom directory name.

- d. Save the file.
- 7. Update the createData(...) and createDataObject(...) methods in the Worksheet2.jsp file:

#### **Important**

After applying fix pack 2 (5.5.0.2), the file is renamed to Worksheet2.jspf. This scenario will refer to Worksheet2.jspf.

- a. Under the Web Content/tools directory, create a new folder called custom.
- b. In the WebSphere Commerce development environment, navigate to the CommerceAccelerator/Web Content/tools/catalog folder.
- c. Right-click on the Worksheet2.jspf file, and select **Copy**.
- d. Right-click on the Web Content/tools/custom folder and select Paste.
- e. Double-click the new file to open it in a text editor.
- f. In the createData(...) function, add the following section of code before the return results; line:

```
//Add this inventory section
  try {
   InventoryAccessBean abInventory = new InventoryAccessBean();
   abInventory.setInitKey_catalogEntryId(abEntry.getCatalogEntryReferenceNumber());
   abInventory.setInitKey_fulfillmentCenterId(cmdContext.getStore().
         getFulfillmentCenterId());
   abInventory.setInitKey storeId(cmdContext.getStoreId().toString());
   abInventory.refreshCopyHelper();
   result += "data["+index+"].inventoryFlag
                                                = '" + toEscapeSlash(abInventory.
```

g. In the function createDataObject(...) function, add these lines:

```
result += " this.inventoryFlag = '';\n";
result += " this.inventoryQuantity = '';\n";
```

between the following lines:

```
result += "this.categoryID=Æ-1Æ;\n";
and
resul t+= "}\n";
```

- h. Save the file.
- 8. In the ProductUpdateDetail.jsp file, make the following changes:
  - a. In the WebSphere Commerce development environment, navigate to the CommerceAccelerator/Web Content/tools/custom folder.
  - b. Right-click on the ProductUpdateDetail.jsp file, and select Copy.
  - c. Right-click on the custom folder and select Paste.
  - d. Double-click the new file to open it in a text editor.
  - e. Add the import statement at the beginning of the Worksheet2.jspf file: <%@ include file="../custom/Worksheet2.jspf" @>
  - f. Save the file.
- 9. Create the CatalogEntryXMLInventoryControllerCmdImpl command implementation to process the customized data. To create this command implementation, do the following:
  - a. Navigate to WebSphereCommerceServerExtensionsLogic.
  - b. Right-click on the src folder, and select New, and then Interface.
  - c. In the Package field, type com.myCompany.commerce.tools.catalog.commands.
  - d. In the Name field, type CatalogEntryXMLInventoryExtensionControllerCmd.
  - **e**. Click **Finish**. The file opens in a text editor.
  - f. Add the following code to the file:

```
package com.myCompany.commerce.tools.catalog.commands;
import java.util.Hashtable;
import java.util.Vector;
import com.ibm.commerce.command.CommandFactory;
import com.ibm.commerce.datatype.TypedProperty;
import com.ibm.commerce.exception.ECApplicationException;
import com.ibm.commerce.exception.ECException;
import com.ibm.commerce.exception.ECSystemException;
import com.ibm.commerce.fulfillment.objects.InventoryAccessBean;
import com.ibm.commerce.ras.ECTrace;
import com.ibm.commerce.ras.ECTraceIdentifiers;
import\ com. ibm. commerce. tools. catalog. commands. Catalog Entry XML Controller Cmd;
import com.ibm.commerce.tools.catalog.commands.CatalogEntryXMLControllerCmdImpl;
import com.ibm.commerce.tools.xml.XMLStringReader;
 * @author A developer
 */
public class CatalogEntryXMLInventoryExtensionControllerCmdImpl
extends com.ibm.commerce.tools.command.ToolsControllerCommandImpl {
```

```
public static final String CLASSNAME =
 "com.myCompany.commerce.tools.catalog.commands.
     {\tt CatalogEntryXMLInventoryExtensionControllerCmdImpl";}
private static final String CATALOGENTRY = "CatalogEntry";
private static final String CATALOGENTRY ACTION = "action";
private static final String CATALOGENTRY ACTIONUPDATE = "update";
private static final String CATALOGENTRY_CATALOGENTRYID = "catalogEntryId";
private static final String CATALOGINVENTORY = "Inventory";
private static final String CATALOGINVENTORY FLAG = "inventoryFlag";
private static final String CATALOGINVENTORY QUANTITY = "inventoryQuantity";
private Hashtable catalogEntryXML = null;
* This method accepts input parameters from RequestProperties for the controller
* command.
* @param reqParams com.ibm.commerce.datatype.TypedProperty
* @exception ECApplicationException.
public void setRequestProperties(TypedProperty regParams)
throws ECApplicationException {
super.setRequestProperties(reqParams);
String xmlstring = requestProperties.getString("CatalogXML", null);
if (xmlstring == null) {
 return;
try {
 XMLStringReader xsr = new XMLStringReader(xmlstring);
 Hashtable val = xsr.read();
 if (val != null) {
  catalogEntryXML = (Hashtable) val.get("XML");
} catch (ECSystemException e) {
 ECTrace.trace(
  ECTraceIdentifiers.COMPONENT TOOLSFRAMEWORK,
  this.getClass().getName(),
  "setRequestProperties",
  "Error parsing XML object");
}
* This function updates the catalog entry inventory information
* @param catalogEntryID String - catalog entry ID
* @param h Hashtable - this is the hashtable of changes to the catalog entry
         inventory information
* @throws ECException
public void updateCatalogEntryInventory(String catalogEntryID, Hashtable h)
throws ECException {
final String METHODNAME = "updateCatalogInventory";
 //Update the access bean
 InventoryAccessBean abInventory = new InventoryAccessBean();
 abInventory.setInitKey catalogEntryId(catalogEntryID);
 abInventory.setInitKey_fulfillmentCenterId(getCommandContext().getStore().
       getFulfillmentCenterId());
 abInventory.setInitKey storeId(getCommandContext().getStoreId().toString());
 abInventory.refreshCopyHelper();
 if (h.containsKey(CATALOGINVENTORY FLAG))
```

```
abInventory.setInventoryFlags(h.get(CATALOGINVENTORY FLAG).toString());
 if (h.containsKey(CATALOGINVENTORY QUANTITY))
  abInventory.setQuantity(h.get(CATALOGINVENTORY QUANTITY).toString());
 abInventory.commitCopyHelper();
 } catch (Exception ex) {
 ECTrace.trace(
  ECTraceIdentifiers.COMPONENT CATALOG,
  CLASSNAME,
  METHODNAME,
  "Cannot update Inventory.");
}
* This function updates a single catalog entry
* @param hEntry Hashtable - a hashtable with containing the catalog entry
* information
public void updateCatalogEntryObject(Hashtable hEntry) {
final String METHODNAME = "updateCatalogEntryObject";
try {
 String action = (String) hEntry.get(CATALOGENTRY ACTION);
 String catalogEntryID =
  (String) hEntry.get(CATALOGENTRY_CATALOGENTRYID);
 if (action.equals(CATALOGENTRY ACTIONUPDATE))
  updateCatalogEntryInventory(catalogEntryID, hEntry);
 }
 } catch (Exception e) {
 ECTrace.trace(
  ECTraceIdentifiers.COMPONENT CATALOG,
  CLASSNAME,
  METHODNAME.
  "Catalog Entry Inventory Update Failed.");
}
* This function accepts an XML string parameter containing the update
* information for the set of catalog entries modified by the Product Line
 * Update tool.
* These updates are then processed.
* @throws ECException
public void performExecute()
throws com.ibm.commerce.exception.ECException {
final String METHODNAME = "performExecute";
 // perform server side parameter checking
super.performExecute();
 // determine if there is something to parse
 if (catalogEntryXML != null) {
 java.lang.Object objXML = catalogEntryXML.get(CATALOGENTRY);
 if (objXML instanceof Hashtable) {
  updateCatalogEntryObject((Hashtable) objXML);
 if (objXML instanceof Vector) {
  for (int i = 0; i < ((Vector) objXML).size(); i++) {</pre>
   Hashtable hXML = (Hashtable) ((Vector) objXML).elementAt(i);
```

```
updateCatalogEntryObject(hXML);
 try {
  //
 // Call the old command.
 // We do not need to know what it accepts but rather
  // just call it with the input from the JSP file like we did originally.
  //
 // Retrieve the response properties from the command since we don't know
 // what it sends back to the JSP file.
 //
 CatalogEntryXMLControllerCmd catalogEntryXMLControllerCmd = null;
  catalogEntryXMLControllerCmd =
   (CatalogEntryXMLControllerCmd) CommandFactory.createCommand(
    "com.ibm.commerce.tools.catalog.commands.CatalogEntryXMLControllerCmd",
    getStoreId());
  catalogEntryXMLControllerCmd.setCommandContext(getCommandContext());
  catalogEntryXMLControllerCmd.setRequestProperties(
  requestProperties);
  catalogEntryXMLControllerCmd.performExecute();
  responseProperties =
  catalogEntryXMLControllerCmd.getResponseProperties();
 } catch (Exception e) {
  ECTrace.trace(
   ECTraceIdentifiers.COMPONENT CATALOG,
   CLASSNAME,
  METHODNAME,
   "The update failed.");
}
```

- g. Save the file, but do not close the development environment.
- 10. Create the CatalogEntryXMLInventoryExtensionControllerCmd command. In the WebSphere Commerce development environment, do the following:
  - a. Navigate to the WebSphereCommerceServerExtensionsLogic project.
  - b. Navigate to the src folder.
  - **c**. Right-click on the com.*myCompany*.commerce.tools.catalog.commands package, and select **New**, and then **Class**.
  - d. In the Name field, type CatalogEntryXMLInventoryExtensionControllerCmd.
  - e. Click **Finish** to open the command in a text editor.
  - f. Add the following code:

```
package
com.myCompany.commerce.tools.catalog.commands;
import
com.ibm.commerce.command.ControllerCommand;
/**
 * @author A developer
 *
 */
public interface CatalogEntryXMLInventoryExtensionControllerCmd extends
    ControllerCommand {
    /**
    * Method interface name
```

```
*/
public static final String NAME = "com.myCompany.commerce.tools.catalog.
    commands.CatalogEntryXMLInventoryExtensionControllerCmd";

/**
    * Method implementation classname
    */

public static String defaultCommandClassName = "com.myCompany.commerce.tools.
    catalog.commands.CatalogEntryXMLInventoryExtensionControllerCmdImpl";
```

- g. Save and close the file.
- 11. Create a view in the VIEWREG database table for the new JSP file. Run the following SQL statement:
  - $\label{lem:update} \begin{tabular}{ll} update VIEWREG set PROPERTIES='docname=tools/custom/ProductUpdateDetail.jsp' where VIEWNAME='ProductUpdateDetail' \end{tabular}$
- Register the command in the URLREG database table using the following SQL statement:

```
update urlreg set interfacename='com.myCompany.commerce.tools.catalog.
commands.CatalogEntryXMLInventoryExtensionControllerCmd' where
URL='CatalogEntryXMLControllerCmd'
```

- **13**. Test your customization in your development environment. To complete this test, do the following:
  - a. Stop and restart your development WebSphere Commerce instance. Refer to the *WebSphere Commerce Programming Guide and Tutorials* for details about how to stop and restart this instance.
  - b. Launch the WebSphere Commerce Accelerator.
  - c. From the Business Product or Professional Merchandise menu, select Product Management.
  - d. Click the Inventory tab. If you receive the correct results, then the customization has been a success, and you can proceed to propagate all of the changes you made to the development environment to the production environment as detailed in the following steps. If this check fails, you will have to determine the cause of the error, and debug.
- 14. Export the updated assets:
  - a. Right-click the ProductUpdateDetail.jsp file and select **Export**. The Export wizard opens.
  - b. In the Export wizard, do the following:
    - 1) Select File system and click Next.
    - 2) Select the ProductUpdateDetail.jsp file.
    - 3) Select the Worksheet2.jpsf file.
    - 4) Navigate to the WebSphereCommerceServerExtensionsLogic/src/com/myCompany /catalog/properties folder, and select the ProductNLS\_en\_US.properties file.
    - 5) Navigate to the WebSphereCommerceServerExtensionsLogic/src/com/myCompany /commerce/tools/catalog/commands folder, and select the CatalogEntryXMLInventoryExtensionControllerCmd.java and CatalogEntryXMLInventoryExtensionControllerCmdImpl.java files.
    - 6) Select Create directory structure for files.

- 7) In the **To directory** field, type a temporary directory into which these resources will be placed. For example, type C:\ExportTemp\StoreAssets.
- 8) Click Finish.
- 9) If prompted, create the specified directory.
- 15. Transfer the updated assets to the production environment. To transfer the files, do the following:
  - a. Stop the WebSphere Commerce instance that is running within WebSphere Application Server. Refer to the *WebSphere Commerce Installation Guide* for your platform and database for details about how to stop this instance.
  - b. On the target machine, locate the WebSphere Commerce instance .ear directory. The following paths are an example of this directory:

QIBM/ProdData/WebAsAdv4/installedApps/ WAS\_node\_name/WC\_instance\_name.ear

AIX Linux Solaris WAS\_installdir/installedApps/cellName/WC\_instance\_name.ear

Windows WAS\_installdir\installedApps\cellName\ WC\_instance\_name.ear where:

instance\_name

The name of your WebSphere Commerce instance.

▶ 400 WAS\_node\_name

The iSeries system where the WebSphere Application Server product is installed.

cellName

The WebSphere Application Server cell name.

c. Copy the files exported in step 14, into the following directories:

#### ProductUpdateDetail.jsp

WC\_instance\_name.ear/CommerceAccelerator.war/tools/custom

#### Worksheet2.jspf

WC\_instance\_name.ear/CommerceAccelerator.war/tools/custom

#### **ProductNLS**\_locale.properties

WC\_instance\_name.ear/properties/com/myCompany/catalog/properties

#### Catalog Entry XMLInventory Extension Controller Cmd

com.myCompany.commerce.tools.catalog.commands

d. Transfer the following files from your production environment:

#### ${\it ImyCustomXML/tools/catalog/CatalogPageList.xml}$

Copy to WC\_installdir/xml/tools/custom

#### WCDE\_installdir/xml/tools/catalog/resources.xml

Copy to WC\_installdir/xml/tools/catalog

- **e.** Update the *WC\_installdir*/instances/instance\_name/xml/instance\_name.xml, so that it reflects the updated XMLPath value.
- f. Propagate your changes to the VIEWREG table in the database to the production database.
- g. Restart your WebSphere Commerce instance. Refer to the *WebSphere Commerce Installation Guide* for your platform and database for details about how to start this instance.

#### **Assets**

The Product Management tools component is based upon the following assets.

#### **JSP** assets

The Product Management tools JSP assets listed in the following table should be modified using the following procedure:

- 1. Open the WebSphere Commerce development environment (**Start > Programs > IBM WebSphere Commerce development environment**) and switch to the
  - Business Jefforessional J2EE Perspective Project Navigator view Express Project Navigator view.
- 2. Navigate to the CommerceAccelerator project.
- 3. Navigate to the Web Content/tools/catalog directory.
- 4. Create a custom folder.
- 5. Copy the target file from the appropriate component folder to your custom folder.
- 6. Double-click the new file in the custom folder to open it in the editor window.
- 7. Update the file as necessary.
- 8. Update the VIEWREG database table to point to the customized version of the file.

The following table lists all of the catalog JSP files.

Table 4. Product Management tools JSP assets

Page	JSP	Properties file
Product Update tool	ProductUpdateDialog.jsp	WAS_installdir/installedApps/
Title frame (menu)	ProductUpdateTitle.jsp	properties/com/ibm/commerce/ tools/catalog/properties/
Detail frame (table with the catalog entries)	ProductUpdateDetail.jsp	ProductNLS_locale.properties.
Bottom frame (save and return buttons)	ProductUpdateBottom.jsp	
SKU Update tool	ItemUpdateDialog.jsp	
Detail frame (table with the catalog entries)	ItemUpdateDetail.jsp	
Bottom frame (save and return buttons)	ItemUpdateBottom.jsp	
iframe used by Edit > Find	ProductUpdateFind.jsp	
iframe used by Edit > Replace	ProductUpdateReplace.jsp	
iframe used when double-clicking a text area	ProductUpdateTextarea.jsp	
iframe to create the dialog to change a category	ProductCategoryDialog.html	
Dialog category tree frame to change a category	ProductCategoryDetail.jsp	
Dialog buttons frame to change a category	ProductCategoryButtons.jsp	

The JSP assets use the CatalogCommonFunction.js Javascript file.

The following Java assets belong to the com.ibm.commerce.tools.catalog.commands package:

- $\bullet \quad Catalog Entry XML Controller Cmd. java \\$
- CatalogEntryXMLControllerCmdImpl.java

#### XML assets

The Product Management tools XML assets listed in the following table should be modified using the following procedure:

- 1. Create a new directory in which you will store your custom XML files.
- 2. Copy the XML file from your *WC\_installdir*/xml/tools/catalog directory, into your custom directory.
- 3. Open the file in an editor and make any necessary changes.
- 4. Update the XMLPath value in the *instance\_name*.xml file such that you prepend the custom directory path to the existing list of paths.

The following table lists all of the Product Management tools XML files that may require updates.

Table 5. Product Management tools XML files

XML file name	Description
resources.xml	Maps the different XML files used by the catalog to their name spaces.
CatalogMenuProduct.xml	Defines the menu used on the Product Update tool for the following catalog entries: products, bundles, and kits.
CatalogMenuItem.xml	Defines the menu used on the Product Update tool for SKUs.
CatalogPageList.xml	Defines the tabs and columns in the Product Update Tool.

## **Database assets**

The Product Management tools component makes use of data stored in the database table described in the following table:

Table 6. Product Management tools database tables

Table name	Additional information
CATENTDESC	Catalog entry descriptions.
CATENTRY	All information related to a catalog entry.

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