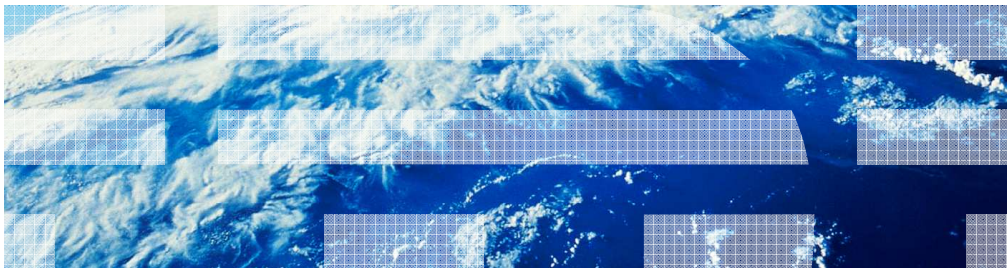


WebSphere Commerce V7 Feature Pack 5

Installation and migration overview



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This presentation provides an overview of the installation packages and the enhancements to migration for WebSphere Commerce Version 7 Feature pack 5. Beginning in Feature Pack 5, WebSphere Commerce includes the click-to-merge function to help you merge all Commerce Management Center customizations except conflict types. For conflict type customizations, you still need to manually merge the files after you are finished using the click-to-merge function.

Agenda

- Installation review
- Migration enhancements

First the installation packaging for Feature Pack 5 is discussed and then the migration enhancements.

Installation review

This section covers the installation packaging for Feature Pack 5.

Packaging summary

- Package 1: Feature pack only
- Package 2: Fix pack for WebSphere Commerce Developer
- Package 3: Fix pack for WebSphere Commerce Server
- Package 4: Update installer for WebSphere Commerce Server fix pack
- Files available through standard channels

- Note: Combo feature pack and fix pack for WebSphere Commerce Developer not available

This slide summarizes the packages available for the fix pack 6 and Feature Pack 5 releases. The first four are the packages typically available for WebSphere Commerce Server and WebSphere Commerce Developer. The combo feature pack/fix pack for Developer is not available. All installation packages are available through the standard channels.

Migration enhancements

WebSphere Commerce Version 7 Feature Pack 5 provides a comparison utility to help you migrate a customized Management Center application from Version 7 previous Feature Pack version to Version 7 Feature Pack 5. Since V7 Feature Pack 3, there are many GUI changes for the migration tool.

Overview of enhancements

- WebSphere Commerce Management Center (CMC) is updated every feature pack
- If you have done customizations you need to migrate the customizations
- In V6 Feature Pack 4 a comparison tool was delivered to help migration
 - The comparison utility displays the customizations
 - Manually migrate the customizations using the merging suggestions
- Feature Pack 5 delivers enhancements to the CMC migration tool where you can click-to-merge the customizations



WebSphere Commerce Management Center (CMC) is updated in every feature pack release. You can make customizations on the CMC tools. When you upgrade the CMC tools to the higher feature pack release, there is a need to migrate the customization to the new feature pack release too. In V6 feature pack 4 a comparison utility was delivered to help migrate customized and deployed CMC tools application from a lower version of a feature pack to a higher version. This comparison utility displays the customizations on old feature pack release and new feature pack release. You can migrate the customizations from the old feature pack release to new feature pack release manually using the comparison tool. Sometimes this effort can be time consuming, so feature pack 5 delivers enhancements to the CMC migration tool. The migration tool has many GUI changes and added functions to help you migrate a customized CMC application from Version 7 previous Feature Pack version to Version 7 Feature Pack 5.

Delta

- One delta is one customization on the lzx/def file and can be these types:
 - Modify an attribute
 - Add an attribute
 - Delete an attribute
 - Add an element
 - Delete an element
 - Modify a text value
 - Reorder the children elements

In order to understand the next few slides, it is important to understand the different customizations (delta types). A delta is one customization on the lzx/def file. The deltas are listed here. A delta can be: modify an attribute which is to modify the attribute on a new feature pack to be same as the value customized in the old feature pack. The Add an attribute delta, is about adding a customized attribute to the new feature pack. There is also, delete an attribute. When the customization is related to attributes, if the attribute is part of the unique ID, the comparison tool will recognize the customization as two deltas. An unique ID is the element name + 0 or more attributes, they are picked to uniquely identify the element under the parent. If you modified the value of an attribute, which happens to be part of the unique ID, the tool will think that the old element was deleted and a new one was created. The auto merge tool will handle the two deltas and will not consider it as modify an attribute value. Other deltas include adding and deleting an element. Modify a text value will modify the text value on new feature pack to be same as the value in old feature pack. There is also a reorder the children elements delta.

Migration enhancements

- Feature Pack 5 includes
 - Click-to-merge options to automatically merge customizations
 - Migrate this delta
 - Migrate all deltas in this file
 - Migrate all deltas in all the files
 - Merge customizations between files with same or different file names
 - Roll back to WebSphere Commerce Version 7 FEP5 base edition
 - Roll back one file 
 - Roll back all files 

Feature Pack 5 delivers enhancements to the CMC migration tool by introducing a click-to-merge function. With this you do not need to manually merge every customization, but rather the tool will attempt to do the migration for you. Use the compare utility tool and show all the customizations on the old feature pack release. Then you can select three ways to migrate the customization. You can migrate deltas one by one. Using this method, you merge one customization at a time by clicking the pop-up menu of a delta. You need to repeat the action for each delta, one by one, until all the deltas are migrated. All deltas that have no conflict with the new base feature pack can be migrated. The next option is to migrate all the deltas in one file. Using this method, you merge all the customizations by clicking the pop-up menu in one file. You must repeat the action for each file, one by one, until all files are migrated. All deltas that have no conflict with the new base feature pack can be migrated. The last option is to migrate all the deltas in all the files. Using this method, you merge all customizations at once by clicking one button. All deltas that have no conflict with the new base feature pack can be migrated. You can also merge customizations between files with the same or different file names.

Another feature that has been added to the CMC migration tool is the roll back feature. This allows you to roll back one file or rollback all files. Using this method, you can roll back all the customizations to either one file or all the files at once. All the changes you had made are removed, and the Management Center is rolled back to the base feature pack 5 edition. If the rollback operation completed successfully, the names of files are displayed in red and every delta has the status Not Migrated.

High level pop-up menu

- Run the LOBTools Comparison Utility and in the OpenLaszlo migration results view there are three new options
 - Migrate this file
 - Roll back this file to WebSphere Commerce Version 7 FEP5 edition
 - Refresh



You can see the new feature added within the pop-up menus. In order to use the tool, run the LOBTools Comparison Utility and right click the project “LOBTools”. Select OpenLaszlo Migration and click Compare Customizations. The OpenLaszlo migration results view is displayed. When you right click the file item in the OpenLaszlo migration results view, three new options are displayed. Migrate this file to attempt to migrate all the deltas in the selected file. “Roll back this file to WebSphere Commerce Version 7 FEP5 edition” to roll back the selected file to the Feature Pack 5 version where all the customizations on this file are lost. Finally, Refresh which loads the up to date file and re-calculates the migration status for all the deltas in the selected file.

LOBTools Comparison Utility

- Filename – color coded to show if file is migrated or not
 - If the all deltas for the file are migrated color is green, else red
- Status – displays how many deltas are migrated or not
- Change Type – delta
- Migration Type – either auto-migrated or manual-migrated

Customization migration view: Delta between WebSphere Commerce Version 7 base and WebSphere Commerce Version 7 customized (Total 717 changes, migrated 73, not migrated 644)

Filename	Status	Change Type	Migration Type
/LOBTools/WebContent/config/commerce/catalog/listViewDefinitions/CatalogEntryDefiningAttributeGrid.def	Migrated:3, Not migrated:0		
/LOBTools/WebContent/config/commerce/catalog/listViewDefinitions/CatalogEntryDescriptiveAttributeGrid.def	Migrated:3, Not migrated:0		
Line #24 : WebSphere Commerce Version 7	Migrated	Modify attribute	Manual-Migrated
Line #25 : WebSphere Commerce Version 7	Migrated	Modify attribute	Auto-Migrated
Line #28 : WebSphere Commerce Version 7	Migrated	Modify attribute	Manual-Migrated
/LOBTools/WebContent/config/commerce/catalog/listViewDefinitions/CatalogEntryGrid.def	Migrated:1, Not migrated:116		
/LOBTools/WebContent/config/commerce/catalog/listViewDefinitions/CategoryGrid.def	Migrated:0, Not migrated:19		
/LOBTools/WebContent/config/commerce/catalog/listViewDefinitions/CategorySearchGrid.def	Migrated:0, Not migrated:14		

10 Installation and Migration © 2012 IBM Corporation

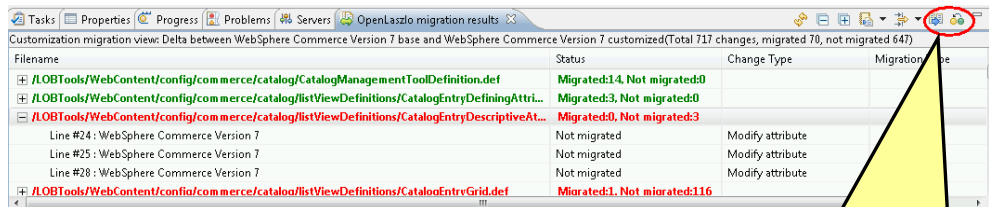
This slide displays the different details for the files listed in the OpenLaszlo migration results. First you see the file name. The file name is color coded to show if file is migrated or not. If the all deltas for the file are migrated, no matter manually or automatically, the status will show migrated and the color is green. If there exists one more deltas not migrated, the color is red. The next column displays the status. The options can be Migrated which is what is displayed for customizations that have been migrated to the Version 7 Feature Pack 5 level. Not Migrated which displays if customizations have not been migrated to the Version 7 Feature Pack 5 level. The status New displays if this is a new customization made to the Version 7 Feature Pack 5 level. The last status is All which means that all the customizations for this file relate to the Management Center enablement.

The change type column displays the type of delta the migration is. It can be add, modify, or remove attribute. Add file, where it is a new file you created in the Version 7 Feature Pack 5 environment. The other change types are add or delete element and reorder element.

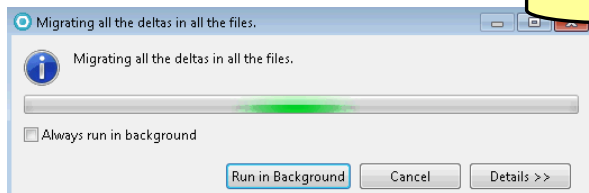
The last column is migration Type. In general, there are two migration types: auto-migrated and manual-migrated. Auto-migrated refers to those deltas the tool was able to make the customization to the new Feature Pack 5 file automatically. Manual-migrated refers to the deltas that you had to manually merge. Once you manually do the migration, you can right click the file and click "refresh" or refresh the whole view, and "Manual-migrated" is filled in the Migration Type column for this delta. The tool will automatically detect that you manually migrated this delta after a refresh. The migration status is invoked after any migration attempt, roll back or refresh.

Migrate all the deltas in all the files

- Applies customization which can be merged automatically



Click the migrate all the deltas in all the files button



Installation and Migration

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This slide displays how to migrate all the deltas in all the files. When this option is chosen, the tool will attempt each delta migration for each file. A status popup is displayed letting you know that the migration of all the deltas in all the files is running.

Summary report and results - migrate all the deltas in all the files

The screenshot shows a software interface with a dialog box titled "Automatic Migration Result" in the foreground. The dialog box contains the following text:

```

There were 7 deltas in 1 file(s) processed.
There were 3 deltas successfully migrated.
There are 4 un migrated deltas, please migrate the un migrated deltas manually.
    
```

A yellow callout bubble points to the dialog box with the text "Migration summary report".

In the background, a table displays migration results. A yellow callout bubble points to the table with the text "Results".

Filename	Status	Change Type	Migration Type
Total 8 changes, migrated 4, not migrated 4)			
/LOBTools/WebContent/config/commerce/catalog/CatalogManagementToolDefinition.def	Migrated:1, Not ...		
/LOBTools/WebContent/config/commerce/marketing/objectDefinitions/EmailActivityPrimaryObjectDefinition.def	Migrated:3, Not ...		
Line #26 : WebSphere Commerce Version 7	Migrated	Add element	Auto-Migrated
Line #97 : WebSphere Commerce Version 7	Migrated	Modify attribute	Auto-Migrated
Line #100 : WebSphere Commerce Version 7	Not migrated	Reorder element	
Line #101 : WebSphere Commerce Version 7	Not migrated	Reorder element	
Line #106 : WebSphere Commerce Version 7	Migrated	Modify attribute	Auto-Migrated
Line #106 : WebSphere Commerce Version 7	Not migrated	Reorder element	

At the bottom of the slide, the text "Installation and Migration" is on the left and "© 2012 IBM Corporation" is on the right.

This slide displays the migration summary report which states how many deltas in how many files were processed and of those how many deltas were successfully migrated and how many deltas were not successfully migrated. For the un-migrated deltas you will need to manually migrate these deltas. The migration tool is refreshed with the results and details in the table updated based on the migration results.

Detailed results – filtering

The screenshot shows two instances of the migration tool's results window. The top instance shows a list of files with a filter dropdown set to 'All'. A yellow callout points to the 'Migrated' option in the dropdown, labeled 'Filter by Migrated'. The bottom instance shows the same list with the filter dropdown set to 'Not migrated', and a yellow callout points to this option, labeled 'Filter by Not migrated'.

Filename	Status	Change Type	Migration Type
/LOBTools/WebContent/config/commerce/catalog/CatalogManagementToolDefinition.def	Migrated:1, Not ...		
/LOBTools/WebContent/config/commerce/marketing/objectDefinitions/EmailActivityPrimaryObjectDefinition.def	Migrated:3, Not ...		
Line #26 : WebSphere Commerce Version 7	Migrated	Add element	Auto-Migrated
Line #97 : WebSphere Commerce Version 7	Migrated	Modify attribute	Auto-Migrated
Line #106 : WebSphere Commerce Version 7	Migrated	Modify attribute	Auto-Migrated

Filename	Status	Change Type
/LOBTools/WebContent/config/commerce/marketing/objectDefinitions/EmailActivityPrimaryObjectDefinition.def	Migrated:3, Not ...	
Line #100 : WebSphere Commerce Version 7	Not migrated	Reorder element
Line #101 : WebSphere Commerce Version 7	Not migrated	Reorder element
Line #106 : WebSphere Commerce Version 7	Not migrated	Reorder element
Line #116 : WebSphere Commerce Version 7	Not migrated	Modify attribute

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The migration tool has three filtering settings. You can display all the files and their status, the deltas that are migrated, or the deltas that are not migrated.

Migrate all deltas in this file

- Reports how many deltas have been migrated successfully and how many deltas were not
- If all the deltas are in “migrated” status, the file color is “green”

Result:

Filename	Status	Change Type	Migration Type
/LOBTools/WebContent/config/commerce/catalog/propertiesViews/BundlePropertiesView.def	Migrated:1, Not migrated:0		
/LOBTools/WebContent/config/commerce/catalog/propertiesViews/BundlePropertiesView.def	Migrated:1, Not migrated:2		
/LOBTools/WebContent/config/commerce/catalog/propertiesViews/BundlePropertiesView.def	Migrated:4, Not migrated:91		
/LOBTools/WebContent/config/commerce/catalog/propertiesViews/BundlePropertiesView.def	Migrated:0, Not migrated:13		
/LOBTools/WebContent/config/commerce/catalog/propertiesViews/BundlePropertiesView.def	Migrated:0, Not migrated:1		
/LOBTools/WebContent/config/commerce/catalog/propertiesViews/BundlePropertiesView.def	Migrated:0, Not migrated:3		
/LOBTools/WebContent/config/commerce/catalog/propertiesViews/BundlePropertiesView.def	Migrated:0, Not migrated:4		
/LOBTools/WebContent/config/commerce/catalog/propertiesViews/BundlePropertiesView.def	Migrated:0, Not migrated:11		
/LOBTools/WebContent/config/commerce/catalog/propertiesViews/BundlePropertiesView.def	Migrated:0, Not migrated:17		
/LOBTools/WebContent/config/commerce/catalog/propertiesViews/BundlePropertiesView.def	Migrated:0, Not migrated:1		

Automatic Migration Result
There were 2 deltas successfully migrated. There are no unmigrated deltas now.

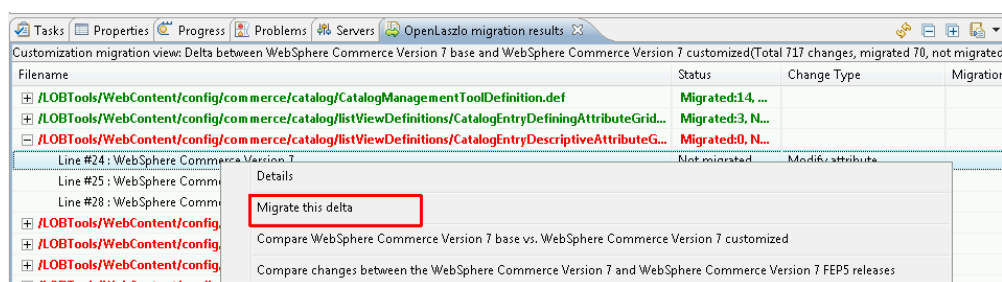
Filename	Status	Change Type	Migration Type
/LOBTools/WebContent/config/commerce/catalog/propertiesViews/CatalogGroupSKUPropertiesView.def	Migrated:2, Not migrated:0		
Line #28 : WebSphere Commerce Version 7 Base	Migrated	Delete element	Auto-Migrated
Line #78 : WebSphere Commerce Version 7	Migrated	Modify attribute	Auto-Migrated
/LOBTools/WebContent/config/commerce/catalog/propertiesViews/CatalogPropertyPane.def	Migrated:4, Not migrated:91		

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Instead of trying to migrate all deltas for all files at one time, you can choose to migrate all the deltas for just one file. Right Click the file, choose the “Merge this file” option to merge all deltas in one file. It will check all the deltas one by one in this file to see whether they can be merged automatically. The customizations which can be migrated automatically on this file are migrated to the new release, otherwise it will skip the delta and do nothing. The status of all the deltas which have been migrated automatically under this file become “Migrated” and the migration type is set to auto-migrated. A dialog is prompted which reports how many deltas have been migrated successfully and how many deltas are still in “Not migrated” status. If all the deltas are in “Migrated” status, the file color becomes green.

Migrate this delta

- On every un-migrated delta, right click the delta, merge the delta only



The last click to merge migration that is offered is the migrate this delta. Here you right click the delta and select “Migrate this delta” in the pop-up menu. If the customization can be migrated automatically, the change is migrated in the file of the new release and the status will change to Migrated with a Migration type of auto-migrated. If the change cannot be migrated it will stay in the not migrated status and you will have to manually migrate this customization.

If the “Migrate this delta” is in disable status, the attribute on the new release is modified to be same as the value in the old release. The status of this delta become “Migrated”. The migration type is then set to be “Auto-migrated”.

Some customization conflicts with the new release changes might not allow the tool to auto-migrate the delta within the migrate all the deltas in all the files or migrate this file. So you might want to choose the “Migrate this delta” option for the deltas that display not migrated even after the other options were done.

Troubleshooting

- Management Center migration issues

<http://publib.boulder.ibm.com/infocenter/wchelp/v7r0m0/index.jsp?topic=/com.ibm.commerce.install.doc/refs/rmgmanagementcentertrouble.htm>

- There are some customization deltas which cannot be auto merged
 - Detail descriptions on what situations cannot be auto merged:

http://publib.boulder.ibm.com/infocenter/wchelp/v7r0m0/index.jsp?topic=/com.ibm.commerce.management-center_customization.doc/refs/rfconflictotypes.htm

This slide displays some useful troubleshooting links.

Summary

- Installation review
- Migration enhancements

This presentation provides an overview of the installation packages and the enhancements to migration for WebSphere Commerce Version 7 Feature pack 5. Beginning in Feature Pack 5, WebSphere Commerce includes the click-to-merge function to help you merge all Commerce Management Center customizations except conflict types. For conflict type customizations, you still need to manually merge the files after you are finished using the click-to-merge function.

References

- Migrating Management Center

http://publib.boulder.ibm.com/infocenter/wchelp/v7r0m0/index.jsp?topic=/com.ibm.commerce.management-center_customization.doc/tasks/tfmigcmc.htm

- Using click-to-merge to merge customized Management Center files

http://publib.boulder.ibm.com/infocenter/wchelp/v7r0m0/index.jsp?topic=/com.ibm.commerce.management-center_customization.doc/tasks/tfmanmigfiles_click.htm

- Rolling back files

http://publib.boulder.ibm.com/infocenter/wchelp/v7r0m0/index.jsp?topic=/com.ibm.commerce.management-center_customization.doc/tasks/tfrollback.htm

- Migrating customized Management Center files to WebSphere Commerce Version 7 Feature Pack

http://publib.boulder.ibm.com/infocenter/wchelp/v7r0m0/index.jsp?topic=/com.ibm.commerce.management-center_customization.doc/tasks/tfmanmigfiles.htm

- Manually merging customized Management Center files

http://publib.boulder.ibm.com/infocenter/wchelp/v7r0m0/index.jsp?topic=/com.ibm.commerce.management-center_customization.doc/tasks/tfmanmigfiles_manual.htm

Here are some useful references.

Reference – Rules adopted for merging one delta

Delta type (customization type)	Merge rule	Merge always?	Exception
Add element	Find the previous sibling of the add element in the old FEP releases and apply the customization to the current release automatically according to the place of the previous sibling. If cannot find the previous sibling in the current release file, add the element as the last child of its parent.	Yes	No
Delete element	Delete the corresponding element in the current release file directly.	Yes	No
Modify attribute	1)If the attribute modified is not part of Unique ID, apply the customization of "modify attribute" to the current FEP file automatically. 2)If the attribute modified is part of Unique ID, this delta is recognized as two deltas, delete element and add element, which can be merged automatically	No	If the attribute modified is deleted in new file, will not migrate it automatically. Customer decides whether apply this customization or not manually.
Add attribute	If the attribute added is not part of Unique ID, apply the customization to the current FEP file automatically If the attribute added is part of Unique ID, the delta is recognized as two deltas, delete element and add element, which can be merged automatically	Yes	No
Delete attribute	If the attribute deleted is not part of Unique ID, apply the customization to the current FEP file automatically If the attribute deleted is part of Unique ID, the delta is recognized as two deltas, delete element and add element, which can be merged automatically	Yes	No
Modify text value	Merge the customization to the new FEP file automatically	No	If the text value in the new FEP release is deleted, will not migrate it automatically. Customer decides whether apply the customization manually or not.
Delta mapping elements	Find the deleted elements information in the delta mapping file, if its messageKey is "APPLY_TO_NEW_INSTANCE", merge it to the new instance automatically,	No	If its messageKey is "DO_NOT_APPLY", will not migrate it automatically.

This slide displays the different rules adopted for the different delta (customization) types.

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