

IBM WebSphere Application Server for z/OS V7 Feature Pack for XML

Installation and configuration



This presentation will cover the installation and configuration of the WebSphere® Application Server for z/OS® V7 Feature Pack for XML.

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This presentation will discuss how the feature pack is installed and then how to configure a profile to have the new feature.

Installation

This first section will discuss how to install the XML feature pack on z/OS.

Installation: Feature Pack for XML

- Shipped as a PTF against the optional materials FMID (JIWO700)


```
++ PTF (UK51832) /* 5655-n0254-jiwo700 */.
++ VER (z038)
   Fmid(jiwo700)
```
- PTF made available here:
 - <http://www.ibm.com/support/docview.wss?rs=404&uid=swg27009131>
- Complete installation instructions are contained in the PTF as an ACTION hold
- Files are installed into these directories, which must be created manually: `
 -pathprefix- /usr/lpp/zWebSphere_OM/V7R0/FPXML`



WebSphere Application Server for z/OS V7 feature pack for XML is shipped as PTF UK51832 against the optional materials FMID. It is available for download at the URL shown on the slide. As with all optional materials, the needed directory (FPXML) must be manually created before the PTF can be applied. Once the PTF for the XML feature pack is applied, you can augment a profile with the XML function.

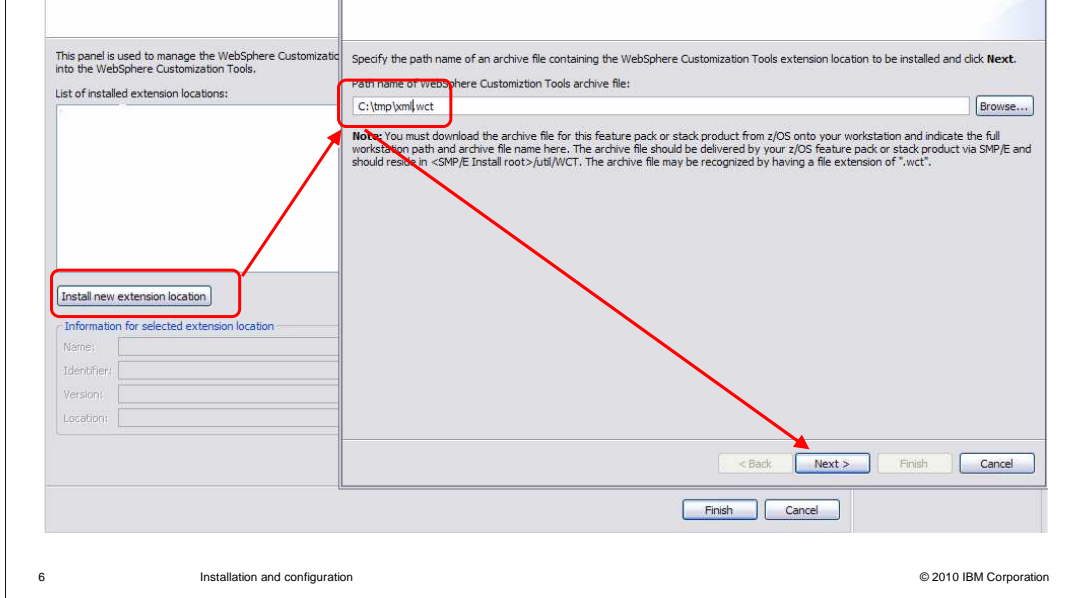
WebSphere Customization Tools update

- Download `xml.wct` in binary
 - Available as part of XML feature pack:
– PathPrefix –
`/usr/lpp/zWebSphere_OM/V7R0/FPXML/util/WCT/xml.wct`
- Start the WCT and select the Help > Software Updates > Install Extension



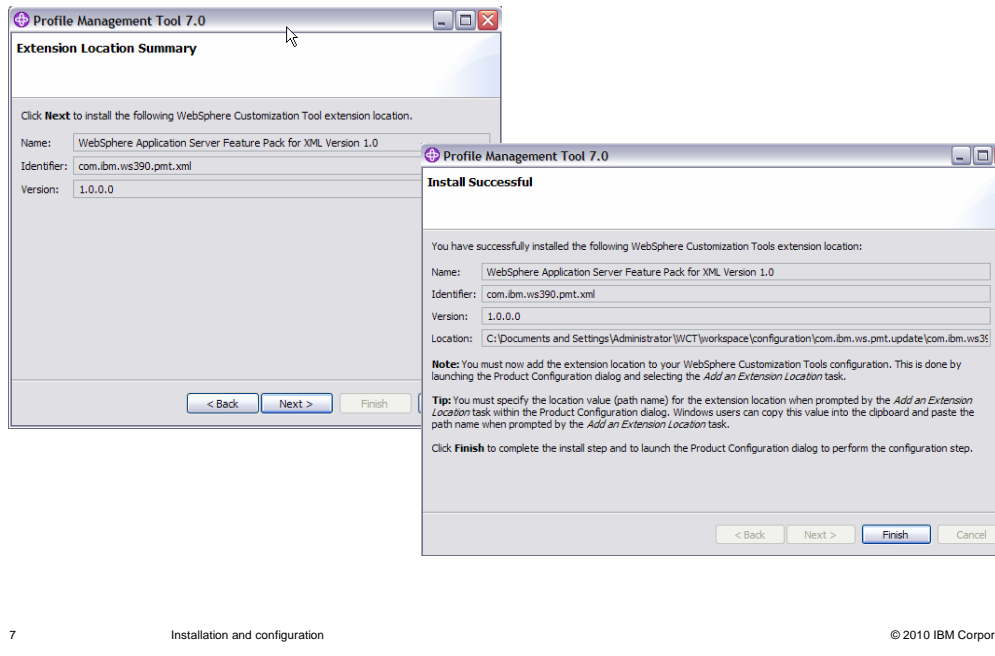
In order to create or augment profiles with the XML feature pack function, it is necessary to update the WebSphere Customization Tools (WCT) with an extension. In the SMP/E directory for the XML feature pack, you will find a `xml.wct` file located under the `util/WCT` directory. Download that in binary to the machine where you run the WebSphere Customization Tools. In order to install it, go to the Help -> Software Updates -> Install extension menu item in WebSphere Customization Tools.

WCT update: Install XML extension... (1 of 4)



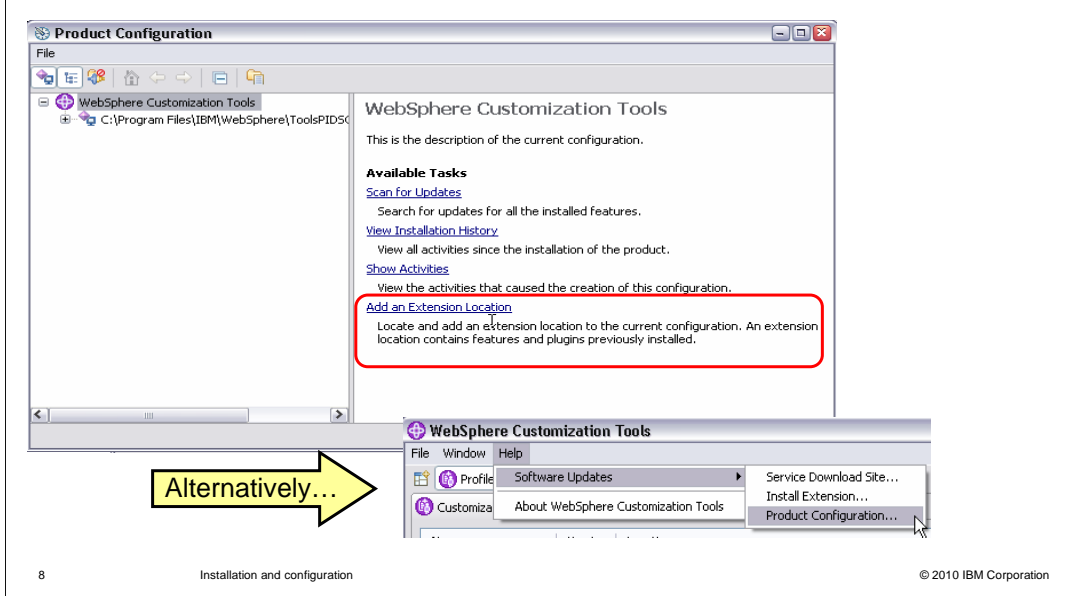
On the next screen, you will have the option to 'Install new extension location'. You need to click that button and it will prompt you for the location of the extension file. Browse to the place where you placed the downloaded file and press 'Next'.

WCT update: Install XML extension... (2 of 4)



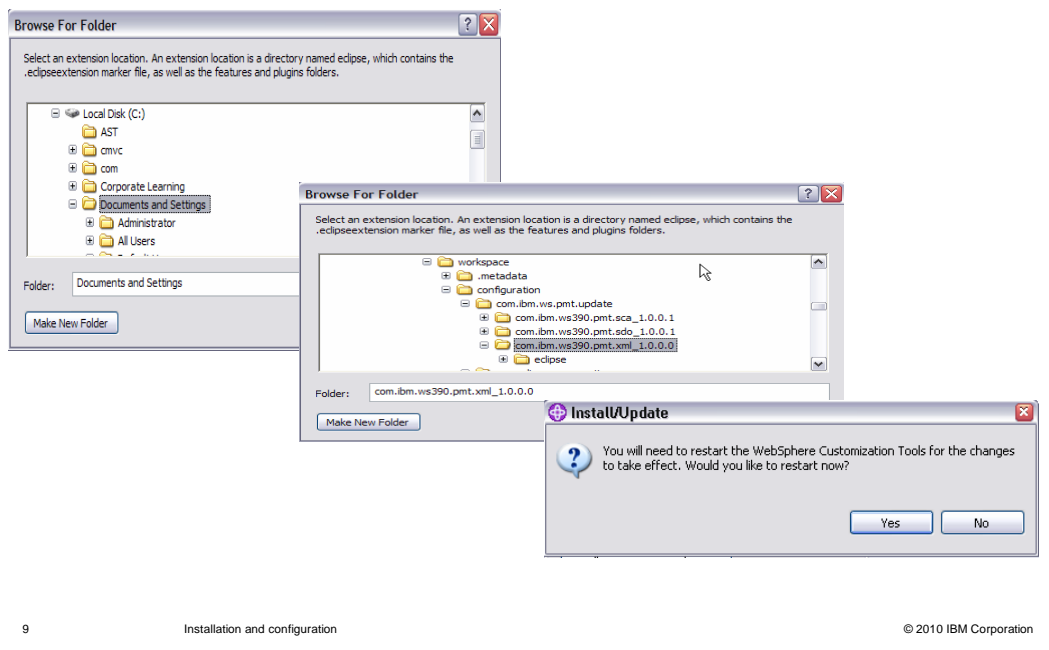
You are then presented with a verification screen, showing that you are about to install the extension location for the feature pack for XML. Click 'Next' and you should see a message telling you the installation was successful. Note that the location has just been installed now. Next, you will need to configure the product to use the new extension location. You need to make a note of where it was installed. Save the 'Location' and click 'Finish'.

WCT update: Install XML extension... (3 of 4)



You should be put in the 'Product Configuration' screen automatically. Select the 'Add an Extension Location' link. If you are not automatically put in the 'Product Configuration' screen, you can get there from the 'Software Update' option as shown on the slide.

WCT update: Install XML extension... (4 of 4)



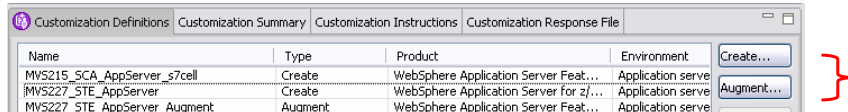
Browse to the 'Location' you saved when you installed the extension location and click 'OK'. You will then be given the option to restart the WebSphere Customization Tools which is necessary to be able to configure profiles with the XML feature.

Configuration

Next you will see how to configure profiles with the XML function.

Configure profile with XML

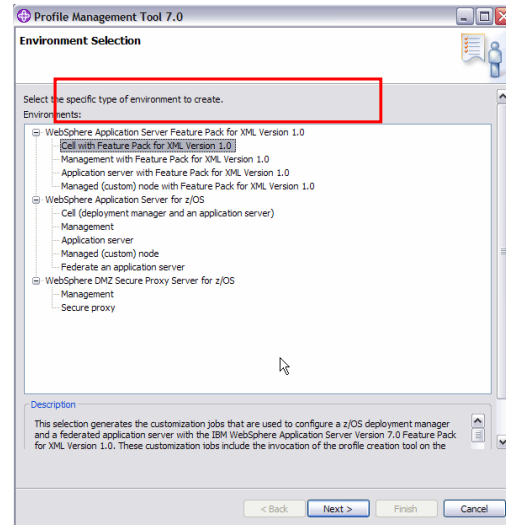
- Two options:
 - Create a new V7 profile with XML function
 - Augment an existing V7 profile with XML function



Now that you have the WebSphere Customization Tools updated with the XML feature pack extension, you have two choices for configuration. You can create a new V7 profile that will have the XML feature pack functions available OR you can augment an existing V7 profile to have the new function.

Configure profile with XML...create (1 of 2)

- Create a profile with XML features
 - Basic environments available
 - Cell
 - Deployment manager cell
 - Application server cell
 - Managed node



When you specify 'Create', you have the option of creating different basic environments including cell, deployment manager, application server and managed node. When you select any one of these environments, it will look just like a regular profile creation. One of the only additions you will see is a screen asking you for the location of the XML feature pack file system. This is shown on the next slide.

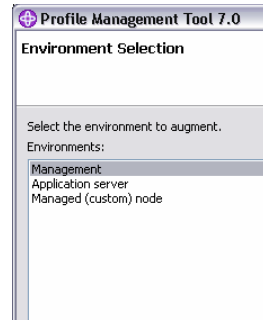
Configure profile with XML...create (2 of 2)

Feature pack for XML product HFS

Shown here is the screen where you are asked to specify where the feature pack for XML file system is found. The profile creation will create an intermediate symbolic link for you if you specify that as well. Again, the rest of the profile creation screens are the same.

Configure profile with XML...augment (1 of 4)

- Augment a profile with XML features
 - Basic environments available
 - Deployment manager node
 - Application server
 - Managed node



When you specify 'Augment', you have an existing environment that you want to add the XML function to. Here you have the option of augmenting a deployment manager node, application server or a managed node. WCT also allows you to augment a 'cell' environment by selecting the Management option.

Configure profile with XML...augment (2 of 4)

Name	Type	Product	Environment	Operating System
MVS215_SCA_AppServer_s7cell	Create	WebSphere Application Server Feat...	Application server with Feature Pack...	z/OS
MVS227_STE_AppServer	Create	WebSphere Application Server for z/...	Application server	z/OS
MVS227_STE_AppServer_Augment	Augment	WebSphere Application Server Feat...	Application server with Feature Pack...	z/OS
MVS227_STE_DM	Create	WebSphere Application Server for z/...	Management - deployment manager	z/OS
STE_MVS223_AdminAgent	Create	WebSphere Application Server for z/...	Management - administrative agent	z/OS
STE_MVS223_AppServer	Create	WebSphere Application Server for z/...	Application server	z/OS
STE_MVS223_K			ement - job manager	z/OS
STE_MVS223_M			ployment manager and an ap...	z/OS
STE_MVS224_A			ement - administrative agent	z/OS
STE_MVS224_A			tion server	z/OS
STE_MVS224_K			ement - job manager	z/OS
STE_MVS224_M			ployment manager and an ap...	z/OS

This slide shows the various screens that you will see if you select augment. As shown on the previous slide, it will give you three options for augmentation. Your first option is a management environment, which is a deployment manager profile. The second option is an application server environment, which is a stand-alone application server node. The third option is a managed (custom) node environment which is an application server node that has been federated into a deployment manager cell.

You will see a choice for each of the WCT extensions that have been installed.

Configure profile with XML...augment (3 of 4)

The screenshot displays the Profile Management Tool 7.0 interface. The 'Target Data Sets' window shows a high-level qualifier (HLQ) of 'FAHR.WASV7.XML.F7BASEA'. The 'Customization Definition Name' window shows a customization definition name of 'MVS221_XML_PROFILE' and a response file path name of 'C:\VPMT\70\WAS60H\profiles\MVS221_XML_BASE.2\MVS221_XML_BASE.responseFile'. A terminal window in the foreground shows the following output:

```

BROWSE ==> FAHR.WASV7.XML.F7BASEA.CNTL
Command ==>
          Name      Prompt      Size      Created
          IWOJUGA
          **End**
  
```

There is not much information that is needed in order to perform the augmentation but there is some basic information that you are asked for. You can specify the response file for the profile you are augmenting to pre-fill the panels with the correct values. The target data set can be the same as the one used for the original profile and nothing is changed. You will see that there are only a couple of members created during the augment and they start with 'IWOJ'.

Configure profile with XML...augment (4 of 4)

Profile Management Tool 7.0
Base file Systems
 Application server with Feature Pack for XML Version 1.0

Configuration file system
 Mount point:

 Directory path name relative to mount point:

WebSphere Application Server product file system
 Product file system directory (or path name of intermediate symbolic link):

Note: Refer to the online information center for more information on intermediate symbolic links and the product file system.

Profile Management Tool 7.0
Feature Pack for XML Product File System
 Application server with Feature Pack for XML Version 1.0

Product file system directory:

Intermediate symbolic link
 Create intermediate symbolic link
 Path name of intermediate symbolic link:

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The first piece of information needed for the augment is the mount point of the configuration that you want to augment with the XML features. It will also ask you about where the WebSphere base product is located. Note that even though an intermediate symbolic link was specified in the response file you used, you will need to update the field to be a symbolic link here if that is what you want to use.

Configure profile with XML...run jobs

- Create
 - BBOxHFSA has additional steps to create links to XML

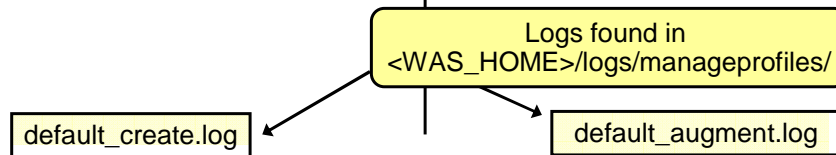
```

*****
/* Create feature pack (or stacked product) intermediate symlink */
*****
//INTSYML2 EXEC PGM=IKJEFT01,REGION=0M,COND=(0,LT)
//SYSTSPRT DD SYSOUT=*
//BPXOUT DD SYSOUT=*
//STDERR DD SYSOUT=*
//STDOUT DD SYSOUT=*
//SYSTSIN DD *
BPXBATCH SH +
/tmp/createIntermediateSymlinks_26105924.sh +
/etc/WRS60H/PIDSCR/usr/lpp/zWebSphere_0M/V7R0/FPXML' +
/etc/XML_SCR_SDO/f7basea/f7nodea/fpxmlspe
*

```

- BBOWWPFx has additional processing to augment with XML function

- Augment
 - IWOJAUGx creates links to XML and runs the augment on the profile



The final step to configuring a V7 profile with XML is to run the jobs that are created for you. In the case of 'create', you will run the jobs you normally run to create that type of profile. A couple of the jobs have had additional processing added to them to allow the profile to support XML. Those jobs are shown on the slide. BBOxHFSA has had some additional steps added to it to create links to the XML product files and BBOWWPFx will do some additional processing to augment the profile with XML. In the case of 'augment', you are instructed to run the IWOJAUGx job which will create the needed XML links in the specified profile and then run the augment processing for you. If an error is encountered in the XML augmentation, you can look for the source of the problem in the logs found in the manageprofiles directory. In the case of 'create', the progress is documented along with the rest of the profile creation in the default_create.log. In the case of 'augment', the progress is tracked in the default_augment.log instead.

Summary

- Installation
 - PTF
- Configuration
 - WCT

In this presentation, you saw that the installation of the WebSphere for z/OS V7 XML feature pack is done by way of SMP/E with a PTF. Once the product code is in place, you can use the WebSphere Customization Tools to create or augment profiles with the XML functions. You saw the new plug-in that has to be installed in the WCT in order to do this.



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