



**z/OSMF labs:  
A smorgasbord of goodies to try out!**

## **Software Management**

Various interesting and helpful capabilities you can do within z/OSMF's Software Management plug-in.



2019 IBM Systems  
Technical University



# Agenda

- **Lab Hints and Tips**
- **z/OSMF Software Management Overview**
- **Lab Environment**
- **Lab Exercises**
  1. **Logon to z/OSMF and invoke software management**
  2. **Add a Software Instance**
  3. **Change the Software Management specific “Settings”**
  4. **View the “Master” Software Instances**
    - a. **Their Products, Features, and FMIDs**
    - b. **Additional Product Information**
    - c. **Properties**
    - d. **Data sets (filtering by attribute)**
    - e. **Export (or Print) Table Data**
  5. **Report on the “Master” Software Instances**
    - a. **End of Service – page 93.**
    - b. **SYSMOD Search**
    - c. **Missing FIXCAT SYSMODs**
    - d. **Missing Critical Fixes**
    - e. **Software Instance Comparison**
    - f. **Software Instance Validation**
  6. **View Products**
  7. **Deployments**

# Lab Hints and Tips

- At any time you can use the Help facilities by clicking on the link in the upper right hand corner of the screen
- You are encouraged to follow the instructions provided, but you can use the new views and reports on any defined software instance
  - Please note that the closer you follow the instructions, the easier it will be to assist you if you go astray
  - The handout contains screen captures and guidance to lead you through the lab
- **Do NOT use the Browser BACK button to go to the prior screen!!!**
  - Use z/OSMF “breadcrumbs” instead
- Also note that if you change the browser display size (Ctrl/+, or Ctrl/-) then what you see may not exactly match the handout.

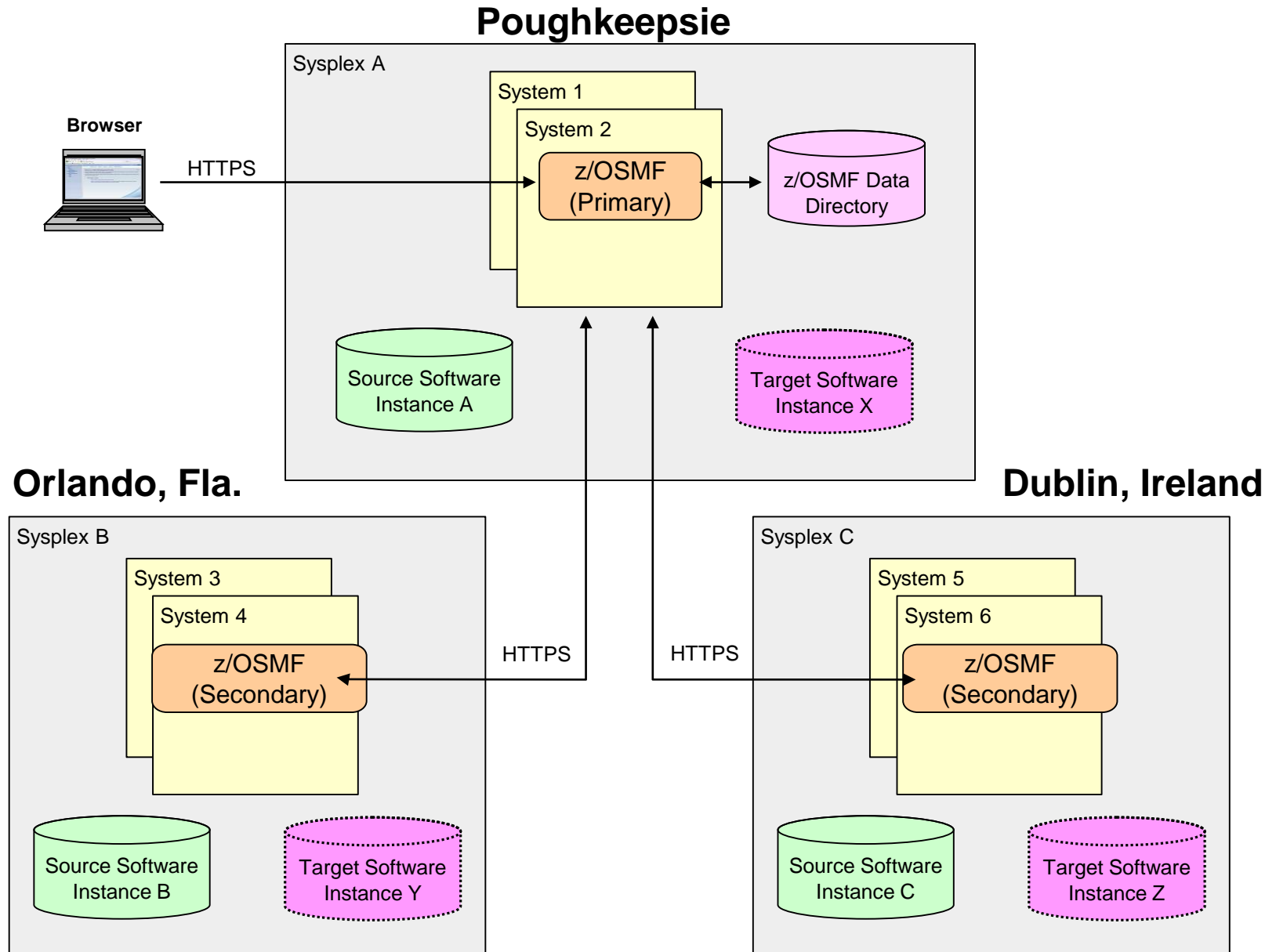
# z/OSMF Software Management

- z/OSMF V1.13 introduced a Software Deployment function
  - Introduced a concept of a software instance
- IBM introduced a Software Management task that extends the Software Deployment task to provide additional actions on software instances.
- This function was integrated and enhanced in z/OSMF V2.1
  - Enhancements were introduced in March 2014 (PTF UI16044) and again in September 2014 (PTF UI91005). Enhancements continue to be intergrated.

**This lab will use z/OS V2.3, which contains z/OSMF V2.3!**

# z/OSMF Software Management ...

- **In addition to deploying a software instance, the Software Management task allows you to:**
  - Inspect a software instance to view the product, feature, and FMID content;
  - View the physical data sets that compose a software instance; and
  - Perform actions to analyze and report on software instances and installed products.
    - Identify software products that are approaching, or have reached, end of service support.
    - Validate the SMP/E structure and content of a software instance is correct.
    - Identify missing HIPER and PE fixes, and fixes associated with one or more fix categories
    - Determine if individual fixes are installed and in which software instances.
    - Compare the service and functional content of two software instances to aid in debugging or migration planning.



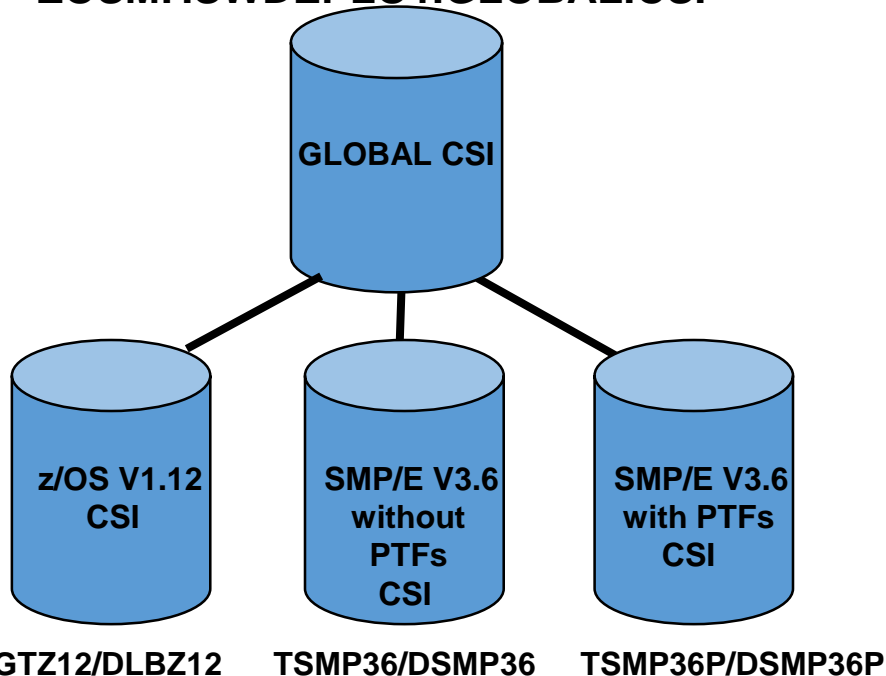
**Example: Software instances can be viewed or deployed throughout your enterprise**

# Lab SMP/E Environment

## Four (4) "Master" Software Instances

1. MASTER\_ZOSV1.12
2. MASTER\_SMPEV3.6\_WITHOUT\_PTFS
3. MASTER\_SMPEV3.6\_WITH\_PTFS
4. MASTER\_zOS\_R13\_w/Other\_Products

## ZOSMF.SWDEPLOY.GLOBAL.CSI



## SMLAB01.GLOBAL.CSI



TGT zone	DLIB zone
Z1130T	Z1130D
COB320T	COB320D
PLI410T	PLI410D
DT910T	DT910D

**Step 1: Logon to z/OSMF  
and invoke  
Software Management**



# Step 1: Log in to z/OSMF

- **Launch the Mozilla Firefox browser**
  - Note: If browser asks to add exception for certificate, do so
- **Point Browser to z/OSMF – enter the following url**
  - <https://mvs1.centers.ihost.com/zosmf/>
  - Note: Ignore and close the warning message
    - IZUG809W Unsupported Web browser version or level found: "3.6.13 (.NET CLR 3.5.30729)" . Some z/OSMF functions might not be available if you continue.
- **Login with SHARE userid/pw as provided by the lab instructor**
  - Each workstation has been assigned a unique z/OS User ID
    - SHARxnn (where x is either A, B, or C; and nn is 01 - 30)
    - Password: to be provided
- **Each User ID has been authorized to all the z/OSMF applications (Plug-ins)**

# Step1: Log in to z/OSMF ...

**Secure connection to z/OS host**  
**<https://mvs1.centers.ihost.com/zosmf/>**



IBM z/OS Management Facility

Hello World!

## Welcome to z/OS

The highly secure, scalable and resilient enterprise operating system for the IBM z Systems mainframe.

z/OS USER ID

z/OS PASSWORD

Use desktop interface ?

**Use provided userid and password.**  
**Do not click on “Use desktop interface”**  
**Click on “Log in”.**

LOG IN

[Shopz](#)

[z Systems Redbooks](#)

[WCS Flashes and Techdocs](#)

[z/OS Knowledge Center](#)

[IBM Support](#)

[z/OSMF home Page](#)

[z/OS home Page](#)

To log in you will need a z/OS user ID that has been defined and enabled for z/OSMF

# Invoke Software Management



IBM z/OS Management Facility

- Welcome
- Notifications
- Workflow Editor
- Workflows
- ▶ Configuration
- ▶ Consoles
- ▶ Jobs and Resources
- ▶ Links
- ▶ Performance
- ▶ Problem Determination
- ▼ **Software**
  - **Software Management**
  - ▶ z/OS Classic Interfaces
  - ▶ z/OSMF Administration
  - ▶ z/OSMF Settings

Refresh

Welcome x

- **Expand). Software**
- **Click on Software Management**
- **Collapse bar for more visibility (red circle)**

Facility

mework for managing various asp  
some areas of z/OS system manag

re section.

g your z/OS systems, select a task from the navigation area.

Learn More:

[What's New](#)

[z/OSMF tasks at a glance](#)

[Getting started with z/OSMF](#)



## **Step 2: Add a Software Instance**

# Step 2: View Software Instances

Welcome x

Software Manage... x

**Click on Software Instances  
(Not Portable Software Instances)**

## Software Management

Use this task to view details about software inventory, including related products, features, PIMDs, data sets, deployments, and STMODs. [Learn more...](#)

<a href="#">Software Instances</a>	Define your software to z/OSMF; deploy software; generate reports about your software.
<a href="#">Portable Software Instances</a>	Define your portable software instances to z/OSMF.
<a href="#">Products</a>	View a consolidated list of the products included in each software instance.
<a href="#">Deployments</a>	Deploy a software instance, and manage existing deployments.
<a href="#">Categories</a>	Create new categories for your software instances and deployments, and manage existing categories.
<a href="#">Settings</a>	Select the time zone in which to display date and time data. Indicate whether to display or suppress information messages.

You will see a list of software instances already defined

### Software Instances

Software Instances for this lab start with "MASTER\_".

Switch To: ▾

Actions ▾

No filter applied

<input type="checkbox"/>	Name Filter	System Filter	Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Filter
<input type="checkbox"/>	MASTER_SMPEV3.6_WITH_PTF	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFs.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP
<input type="checkbox"/>	MASTER_SMPEV3.6_WITHOUT_P	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP

Total: 6 Selected: 0

Refresh

Last refresh: Oct 1, 2015, 11:21:11 AM

# Step 2: Add a Software Instance

The screenshot displays the IBM z/OS Management Facility interface. At the top, the title bar reads "IBM z/OS Management Facility". Below it, there are tabs for "Welcome" and "Software Manage...". The main content area is titled "Software Management" and "Software Instances". A yellow callout box with a lightning bolt points to the "Add..." option in the "Actions" dropdown menu. The "Actions" menu is open, showing options like "View", "Modify", "Open Deployments", "Copy...", "Remove...", "Retrieve Product, Feature, and FMID Information", "Maintenance Reports", "Add...", "Show Hidden Maintenance Reports", "Select All", "Deselect All", "Configure Columns...", "Hide Filter Row", "Clear Sorts", and "Export". The "Add..." option is highlighted. In the background, a table lists software instances with columns for "Messages Filter", "Description Filter", "Activity Filter", "Global Zone CSI Filter", and "Target Filter". The table contains two rows of data, both describing "Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFs." and listing "ZOSMF.SWDEPLOY.GLOBAL.CSI" as the Global Zone CSI and "TSMP" as the Target.

**Click on Actions, then Add...**

**Now, you'll see how to add a software instance**

# Step 2: Add a Software Instance ...

**A wizard will guide you through the steps to define this software instance**

Software Management > Software Help

## Add Software Instance

- ➔ Welcome
- Name and Description
- Global Zone
- Target Zones
- Categories
- Non-SMP/E Managed Data Sets
- Summary

### Welcome

Use this wizard to define a new software instance. A software instance is the SMP/E target and distribution zones that are associated with a product set and the target and distribution libraries described by those zones.

This wizard guides you through the following steps:

1. Specify the name and description of the software instance.
2. Identify the global zone associated with the product set.
3. Select the target zones that describe the target libraries associated with the product set.
4. Assign the software instance to one or more categories.
5. Identify any non-SMP/E managed data sets associated with the product set.
6. Review the summary and submit your request.

**After reviewing, click Next. You might have to scroll down to see the buttons at the bottom.**

< Back   **Next >**   Finish   Cancel



# Step 2: Add a Software Instance ...

The screenshot shows the 'Add Software Instance' wizard in a web browser. The breadcrumb trail is 'Software Management > Software Instances > Add Software Instance'. The left sidebar contains a navigation menu with 'Name and Description' selected. The main form area is titled 'Name and Description' and contains a text input field for the name and a text area for the description. The name field contains 'SHARC30\_LAB'. The description field contains 'This is a software instance created by the Software Management Lab.' At the bottom of the form are buttons for '< Back' and 'Next >'. Three callout boxes provide instructions: a yellow box at the top right explains the naming convention, a yellow box at the bottom right provides a note about the sample instance, and a yellow box at the bottom center points to the 'Next >' button.

Welcome x Software Manage... x

Software Management > Software Instances > Add Software Instance

## Add Software Instance

- ✓ Welcome
- ➔ **Name and Description**
- Global Zone
- Target Zones
- Categories
- Non-SMP/E Managed Data Sets
- Summary

### Name and Description

Enter the name and description of the software instance.

\* Name:

Description: (maximum 256 characters, currently 74 characters)

< Back    Next >

**Enter Software Instance Name**

- It should begin with your User ID
- Use underscore (“\_”) instead of blanks
- Optionally enter a description

**Note:** This sample software instance is not used for the rest of the lab deployment. It is defined solely to demonstrate how to use the wizard to define a software instance to z/OSMF.

**After entering, click Next**

# Step 2: Add a Software Instance ...

Now, you see a list of SMP/E GLOBAL zone CSI data sets defined to z/OSMF Software Management. You will use Actions to add a new CSI data set.

Software Management Help

## Add Software Instance

- ✓ Welcome
- ✓ Name and Description
- ➔ **Global Zone**
- Target Zones
- Categories
- Non-SMP/E Managed Data Sets
- Summary

**Global Zone**

Select the global zone CSI associated with the product set

Global Zones

Actions ▾

↔ No filter applied

CSI Data Set Filter	System Filter	Description Filter	Activity Filter	Last Modified (Local) Filter	Modified I
<input type="radio"/> ZOSMF.SWDEPLOY.GLOBAL.CSI	LOCAL	Master GLOBAL CSI for Software Deployment Lab		Jan 5, 2012, 10:32:12 AM	MFUSR01

Total: 5 Selected: 0

**Refresh** Last refresh: Oct 1, 2015, 11:29:49 AM local time (Oct 1, 2015, 3:29:49 PM GMT)

**< Back** **Next >** **Finish** **Cancel**

**Use the scroll bars to see the CSIs. If you don't see the scroll bars, do "CNTL" with "-" to reduce the screen down.**

# Step 2: Add a Software Instance ...

Click Actions, then Add...

## Add Software Instance

- ✓ Welcome
- ✓ Name and Description
- ➔ **Global Zone**
- Target Zones
- Categories
- Non-SMP/E Managed Data Sets
- Summary

### Global Zone

Select the global zone CSI associated with the product.

#### Global Zones

System Filter	Description Filter	Activity Filter	Last Modified (Local) Filter	Modified I Filter
LOCAL	Master GLOBAL CSI for Software Deployment Lab		Jan 5, 2012, 10:32:12 AM	MFUSR01

- Actions
- Modify
- View
- Copy...
- Remove...
- Add...**
- Configure Columns...
- Hide Filter Row
- Clear Sorts

**Refresh** Last refresh: Oct 1, 2015, 11:29:49 AM local time (Oct 1, 2015, 3:29:49 PM GMT)

< Back Next > Finish Cancel

# Step 2: Add a Software Instance ...

The screenshot shows the 'Add Global Zone' dialog in the IBM z/OS Management Facility. The dialog has a breadcrumb trail: 'Software Management > Software Instances > Add Software Instance > Add Global Zone'. The 'System' dropdown is set to 'LOCAL' with a 'Select...' button next to it. The 'Global Zone CSI Data Set' field contains 'SHARC30.SMPELAB.GLOBAL.CSI'. A description field contains the text: 'This is an existing GLOBAL CSI with TARGET and DLIB zones created for this lab user.' At the bottom are 'OK', 'Reset', and 'Cancel' buttons. Four yellow callout boxes provide instructions: 'Select Local' points to the System dropdown; 'Then enter SHARxnn.SMPELAB.GLOBAL.CSI, where SHARxnn was your assigned userid.' points to the CSI Data Set field; 'Optionally enter a description' points to the description text area; and 'Then click OK' points to the OK button.

IBM z/OS Management Facility

Welcome sharc30

Welcome x Software Manage... x

Software Management > Software Instances > Add Software Instance > Add Global Zone

Help

**Add Global Zone**

\* System:  
LOCAL Select...

\* Global Zone CSI Data Set:  
SHARC30.SMPELAB.GLOBAL.CSI

Description: (maximum 256 characters, currently 84 characters)

This is an existing GLOBAL CSI with TARGET and DLIB zones created for this lab user.

OK Reset Cancel

**Select Local**

**Then enter SHARxnn.SMPELAB.GLOBAL.CSI, where SHARxnn was your assigned userid.**

**Optionally enter a description**

**Then click OK**

# Step 2: Add a Software Instance ...

IBM z/OS Management Facility

See that the Global zone CSI on the local system was added to the table and is selected

Welcome x Software Manage... x  
Software Management > Software Instances > Add Software Instance

## Add Software Instance

- ✓ Welcome
- ✓ Name and Description
- ➔ **Global Zone**
- Target Zones
- Categories
- Non-SMP/E Managed Data Sets
- Summary

### Global Zone

Select the global zone CSI associated with the product

#### Global Zones

CSI Data Set Filter	System Filter	Description Filter	Activity Filter	Last Modified (Local) Filter	Modified I Filter
Actions					
No filter applied					
<input checked="" type="radio"/> SHARC30.SMPELAB.GLOBAL.CSI	LOCAL	This is an existing GLOBAL CSI with TARGET and DLIB zones created for this lab user.		Oct 1, 2015, 11:36:16 AM	SHARC30

Total: 6 Selected: 1

**Refresh** Last refresh: Oct 1, 2015, 11:36:14 AM local time (Oct 1, 2015, 3:36:14 PM)

Then click Next

< Back Next > Finish Cancel

## Step 2: Add a Software Instance ...

Software Management went out the the GLOBAL zone CSI data sets and identified possible target zones to be used in this software instance. You will have to select one or more target zones before continuing (described on next slide)

Use the scroll bars to see the zones. If you don't see the scroll bars, do "CNTL" with "-" to reduce the screen down so the bars appear.

### Target Zones

Actions ▾

↔ No filter applied

<input type="checkbox"/>	Name Filter	Description Filter	Filter	
<input type="checkbox"/>	DB2V8T		DB2V8D SHARC30.SMPELAB.DB2V8.CSI	P115, Z038
<input type="checkbox"/>	IRLMT		IRLMD SHARC30.SMPELAB.DB2V8.CSI	Z038
<input type="checkbox"/>	MQ531T		MQ531D SHARC30.SMPELAB.DB2V8.CSI	P115, Z
<input type="checkbox"/>	TARGET		DLIB SHARC30.SMPELAB.TARGET.CSI	Z038
<input type="checkbox"/>	70010T		70010D SHARC30.SMPELAB.70010.CSI	7000

Total: 5 Selected: 1

Refresh

Last refresh: Oct 1, 2015, 11:37:03 AM local time (Oct 1, 2015, 3:37:03 PM GMT)

< Back

Next >

Finish

Cancel

# Step 2: Add a Software Instance ...

IBM z/OS Management Facility

Welcome sharc30

Welcome x Software Manage... x

Software Management > Software Instances > Add Software Instance

## Add Software Instance

- ✓ Welcome
- ✓ Name and Description
- ✓ Global Zone
- ➔ Target Zones

Categories

Non-SMP/E Managed Data Sets

Summary

### Target Zones

Select the target zones that describe the target libraries associated with the target set.

Target Zones

Actions

No filters applied

<input checked="" type="checkbox"/>	Name Filter	Description Filter	Messages Filter	Related DLIB Zone Filter	CSI Data Set Filter	SRELs Filter
<input checked="" type="checkbox"/>	DB2V8T			DB2V8D	SHARC30.SMPELAB.DB2V8.CSI	P115, Z038
<input checked="" type="checkbox"/>	IRLMT			IRLMD	SHARC30.SMPELAB.DB2V8.CSI	P115, Z038
<input checked="" type="checkbox"/>	MQ531T			MQ531D	SHARC30.SMPELAB.DB2V8.CSI	P115, Z038
<input checked="" type="checkbox"/>	TARGET			DLIB	SHARC30.SMPELAB.TARGET.CSI	Z038
<input checked="" type="checkbox"/>	70010T			70010D	SHARC30.SMPELAB.70010.CSI	7000

Total: 5 Selected: 5

Refresh Last refresh: Oct 1, 2015, 11:37:03 AM local time (Oct 1, 2015, 3:37:03 PM GMT)

< Back Next > Finish Cancel

Click on empty box next to "Name", to select all target zones

Then click Next

# Step 2: Add a Software Instance ...

IBM z/OS Management Facility

Welcome x Software Manage... x

Software Management > Software Instances > Add Software Instance

### Add Software Instance

- ✓ Welcome
- ✓ Name and Description
- ✓ Global Zone
- ✓ Target Zones
- ➔ **Categories**
- Non-SMP/E Managed Data Sets
- Summary

#### Categories

A category is a string or label used to organize and group software instances by function, or geographic location. Select one or more categories.

Categories

Actions ▾

↔ No filter applied

Name Filter	Description Filter	Activity Filter	Last Modified (Local) Filter	Modified By Filter	Locked (Local) Filter	Locked By Filter
There is no data to display.						

Total: 0 Selected: 0

Refresh Last refresh: Oct 1, 2015, 11:41:48 AM local time (Oct 1, 2015 3:44:11 PM GMT)

< Back **Next >** Finish Cancel

**Software Management allows you to associate the software instance with a "Category" as a means of grouping software instance. In this lab you will NOT be using Categories.**

**So just click Next**



# Step 2: Add a Software Instance ...

Software Management allows you to associate one or more non-SMP/E managed data sets with the software instance. You will now associate a non-SMP/E managed data set with your software instance.

The screenshot shows the IBM z/OS Management Facility interface. The main heading is "Add Software Instance". On the left, a navigation pane lists several steps: "Welcome", "Name and Description", "Global Zone", "Target Zones", "Categories", "Non-SMP/E Managed Data Sets" (highlighted with a yellow arrow), and "Summary". The main content area shows a table of "Data Sets" with a "Volume Filter" column. An "Actions" dropdown menu is open, with the "Add..." option highlighted. A yellow callout bubble points to this option with the text "Click Actions, then Add...". At the bottom, there are navigation buttons: "< Back", "Next >", "Finish", and "Cancel".

**Click Actions, then Add...**

# Simplified Addition of non-SMP/E Managed Data Sets

- z/OSMF V1.13 and z/OSMF V2.1 initially required the user to add non-SMP/E Data Sets one data set at a time.
- z/OSMF V2.1 with PTFs UI16044 and UI16028 installed allows the user to use “ISPF Data Set List (3.4)-like” capabilities to add multiple data sets at one time
  - Accept qualifiers and wildcarding for data set name
  - Accept volume with or without a data set name qualifier
  - Allow up to 10,000 data sets to be returned for selection
- The system used for the lab has these functions installed so you get to use this capability.

# Step 2: Add a Software Instance ...

The screenshot shows the 'Add Data Set' dialog in the IBM z/OS Management Facility. The dialog has a title bar with 'Welcome sharc30' and an IBM logo. The breadcrumb trail is 'Software Management > Software Instances > Add Software Instance > Add Data Set'. The main heading is 'Add Data Set'. Below it, there is a text box for 'Data set name qualifier' containing 'SHARC30.SPF\*', a 'Volume:' dropdown menu set to 'Select or type', and a '\*Maximum data sets:' spinner set to '750'. A 'Search' button is to the right. Below these fields is a table titled 'Select Data Sets to Add' with columns 'Data Set Name' and 'Volume'. The table is empty, showing 'There is no data to display.' At the bottom, there are 'OK' and 'Cancel' buttons. Three yellow callout boxes provide instructions: one pointing to the text qualifier field, one pointing to the volume dropdown, and one pointing to the search button.

IBM z/OS Management Facility

Welcome sharc30

Welcome x Software Manage... x

Software Management > Software Instances > Add Software Instance > Add Data Set

**Add Data Set**

To identify the data sets to be added to the software instance, specify a data set name, name qualifier, volume, or both, and click Search. Then select the data sets you want to add. For valid data set name qualifiers, select [Learn more...](#)

Data set name qualifier: SHARC30.SPF\*

Volume: Select or type

\*Maximum data sets: 750

Search

Select Data Sets to Add

Data Set Name	Volume
There is no data to display.	

Total: 0 Selected: 0

OK Cancel

**Enter SHARxnn.SPF\*, where SHARxnn is your assigned userid.**

**Do NOT enter a volume**

**Then click Search**

# Step 2: Add a Software Instance ...

IBM z/OS Management Facility Welcome sharc30 ?

Welcome x Software Manage... x

Software Management > Software Instances > Add Software Instance > Add Data Set Help

### Add Data Set

To identify the data sets to be added to the software instance, specify a data set name qualifier, volume, or both, and click Search. Then, select the data sets you want to add. For valid data set name qualifiers, select [Learn more...](#)

Data set name qualifier:  Volume:  \*Maximum data sets:

Select Data Sets to Add

Actions ?

↔ No filter applied

Data Set Name
---------------

Total: 0 Selected: 0

\* Retrieving information about the data sets that match the search criteria. This request might take several minutes to complete.

**Pop-up window to alert you that this might take a few minutes, and allow you to cancel. Do not cancel, let it continue.**

# Step 2: Add a Software Instance ...

**Software Management went out to the software instances' system (LOCAL) and discovered the following data sets. Depending on which lab user id you are using, a different number of data sets will be presented.**

IBM z/OS Management Facility

Welcome x Software Manage

Software Management > Software

### Add Data Set

To identify the data sets to be added, click [more...](#)

Data set name qualifier:

SHARC30.SPF\*

Select Data Sets to Add

Actions ▾	
↔ No filter applied	
<input type="checkbox"/> Data Set Name	Volume
<input type="checkbox"/> SHARC30.SPF.ISPPROF	SHTSO2

Total: 1 Selected: 0

# Step 2: Add a Software Instance ...

IBM z/OS Management Facility

Welcome x Software Manage... x

Software Management > Software Instances > Add Software Instance > Add Data Set

### Add Data Set

To identify the data sets to be added to the software instance, specify the data set name, volume, or both, and click Search. Then, select the data sets you want to add. For valid data set name qualifiers, select [Learn more...](#)

Data set name qualifier: SHARC30.SPF\* Volume: Select or type \*Maximum data sets: 750 Search

Select Data Sets to Add

Actions	
No filters applied	
<input checked="" type="checkbox"/> Data Set Name	Volume
<input checked="" type="checkbox"/> SHARC30.SPF.ISPPROF	SHTSO2

Total: 1 Selected: 1

OK Cancel

**Click on the empty box next to "Data Set Name" to select all data sets.**

**Then click OK**

# Step 2: Add a Software Instance ...

You'll now see the data sets that you selected are in the list of non-SMP/E managed data sets

Software Management > Software Instances > Add Software Instance Help

## Add Software Instance

- ✓ Welcome
- ✓ Name and Description
- ✓ Global Zone
- ✓ Target Zones
- ✓ Categories
- ➔ Non-SMP/E Managed Data Sets
- Summary

### Non-SMP/E Managed Data Sets

z/OSMF automatically includes a data set in the software instance if it is updated by SMP/E and is associated with the software in the software instance. If you have a data set that is not updated by SMP/E but is associated with the software in the software instance, such as a procedure library, configuration file, or vendor product, use the Add action to explicitly add it to the software instance.

Data Sets

Actions ▾

🔍 No filter applied

<input type="checkbox"/> Name Filter	Volume Filter
<input type="checkbox"/> SHARC30.SPF.ISPPROF	

Total: 1 Selected: 0

< Back   Next >   Finish   Cancel

**After reviewing, click Next**

## Step 2: Add a Software Instance ...

The last step of adding a software instance is reviewing the summary. It shows all the data that you entered. If you wanted to change anything you could use the back button on the bottom of the page.

IBM z/OS Management Facility

Welcome x Software Manag

Software Manag

Add Software Insta

- ✓ Welcome
- ✓ Name and Description
- ✓ Global Zone
- ✓ Target Zones
- ✓ Categories
- ✓ Non-SMP/E Managed Data Sets
- ➔ Summary

Review your con

Name:  
SHARC30\_LAB

Description:  
This is a software instance created by the z/OSMF Software Management Lab.

Global Zone CSI Data Set:  
SHARC30.SMPELAB.GLOBAL.CSI on system LOCAL

Target Zones:  
DB2V8T  
IRLMT  
MQ531T  
TARGET  
ZOS19T

Categories:  
There is no data to displav.

< Back Next > Finish Cancel

After reviewing the summary, click Finish



# Step 2: Add a Software Instance ...

The screenshot shows the IBM z/OS Management Facility interface. The top navigation bar includes "Welcome sharc30" and the IBM logo. The main content area is titled "Software Instances" and contains a table of software instances. A pop-up window is overlaid on the table, displaying a loading spinner and the text: "Retrieving product information for software instance 'SHARC30\_LAB' on system 'LOCAL'. This request might take several minutes to complete." Below the text is a "Cancel" button. A yellow callout box points to the pop-up window with the following text:

**Pop-up window to alert you that product and feature information for this instance is being retrieved and this might take a few minutes, and allowing you to cancel. Do not cancel, and let it continue.**

The table below the pop-up window has the following columns: Name Filter, System Filter, Messages Filter, Description Filter, Activity Filter, Global Zone CSI Filter, Target Zones Filter, Categories Filter, and Product FMID Inf Retrieve Filter. The first row is partially visible with the name "MASTER\_SMPEV3.6\_WITH\_PTFS" and system "LOCAL". The second row is partially visible with the name "MASTER\_SMPEV3.6\_WITHOUT\_PTFS" and system "LOCAL". The third row is partially visible with the name "MASTER\_ZOSV1.12" and system "LOCAL".

Name Filter	System Filter	Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product FMID Inf Retrieve Filter
MASTER_SMPEV3.6_WITH_PTFS	LOCAL		Source Software Instance for		ZOSMF SWDEPLOY GLOBAL CSI	TSP360		Aug 15, 2
MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL		z/OSMF Software					Aug 10, 2
MASTER_ZOSV1.12	LOCAL		z/OSMF Software					

Total: 6 Selected: 0

Refresh

Close

# Step 2: Add a Software Instance ...

See the message that product, feature and FMID information was retrieved and the software instance was added to the table.

- You can click on the message text itself for more details
- You can click on "Close All" to remove the messages

IBM z/OS Manag

Welcome

Software Management > Software Instances Help

### Software Instances

Messages ✖ 0 ⚠ 0 i 1 Close All

i The product, feature, and FMID information for software instance "SHARC30\_LAB" on system "LOCAL" was retrieved. IZUD164I Oct 1, 2015, 11:52:44 AM ✕

Actions ▾ Switch To: ▾

↔ No filter applied

<input type="checkbox"/>	Name Filter	System Filter	Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product FMID Inf Retrieve Filter
<input checked="" type="checkbox"/>	SHARC30_LAB	LOCAL		This is a software instance created by the z/OSMF Software Management Lab.		SHARC30.SMPELAB.GLOBAL.CSI	DB2V8T, IRLMT, MQ531T, TARGET, ZOS19T		Oct 1, 20
<input type="checkbox"/>	MASTER_zOS_R13_w/Other_Produ	LOCAL		z/OS V1.13 with over 20 other products to be used during the z/OSMF Software Management Lab.		SMLAB01.GLOBAL.CSI	COB320T, DT910T, PLI410T, Z1130T		Aug 12, 2

Total: 7 Selected: 1

Last refresh: Oct 1, 2015, 11:52:44 AM

**Click Close**

## **Step 3: Change the Software Management Settings**

# Step 3: Change the Software Management Settings

Before you change the Settings, you will attempt to view Products, Features, and FMIDs for all the “Master” software instances. You will need to change the settings to see all the data.

Software Instances	Define your software to z/OSMF; deploy software; generate reports about your software.
Products	View a consolidated list of the products included in each software instance.
Deployments	Deploy a software instance, and manage existing deployments.
Categories	Create new categories for your software instances and deployments, and manage existing categories.
Settings	Select the time zone in which to display date and time; indicate whether to display or suppress information messages.

**Click on Software Instances**

The Software Management task contains the software deployment functions along with additional software management functions. The Software Management task helps you streamline the software management process by providing a centralized location that you can use to manage your z/OS software.

# Step 3 ...

You will see a list of software instances already defined. Note that there may be additional software instances in the table.

IBM z/OS Mana

Software Management > Software Instances

Switch To: [v]

Actions [v]

No filter applied

<input type="checkbox"/>	Name Filter	System Filter	Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product FMID Inf Retrieve Filter
<input type="checkbox"/>	SHARA11_SMPEV3R6_WITH_PTFs	LOCAL	IZUD809I	Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFs.		ZOSMF.SWDEPLOY.SHARA11.GLO	TSMP36N		
<input type="checkbox"/>	SHARC30_LAB	LOCAL		This is a software instance created by the z/OSMF Software Management Lab.		SHARC30.SMPELAB.GLOBAL.CSI	DB2V8T, IRLMT, MQ531T, TARGET, ZOS19T		Oct 1, 20
<input type="checkbox"/>	MASTER_zOS_R13_w/Other_Produ	LOCAL		z/OS V1.13 with over 20 other products to be used during the z/OSMF Software Management Lab		SMLAB01.GLOBAL.CSI	COB320T, DT910T, PLI410T, Z1130T		Aug 12, 2

Total: 7 Selected: 0

Refresh Last refresh: Oct 1, 2015, 2:04:22 PM

Close

# Step 2 ...

For this lab, you will focus on the Software Instances whose names begin with "MASTER"

Click on Filter under Name

IBM z/OS Mana

Software Management > Software Instances Help

### Software Instances

Switch To: ▾

Actions ▾

*No filter applied*

<input type="checkbox"/>	Name <a href="#">Filter</a>	System <a href="#">Filter</a>	Messages <a href="#">Filter</a>	Description <a href="#">Filter</a>	Activity <a href="#">Filter</a>	Global Zone CSI <a href="#">Filter</a>	Target Zones <a href="#">Filter</a>	Categories <a href="#">Filter</a>	Product FMID Inf Retrieve <a href="#">Filter</a>
<input type="checkbox"/>	<a href="#">SHARA11_SMPEV3R6_WITH_PTF5</a>	LOCAL	<a href="#">IZUD809I</a>	Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFs.		ZOSMF.SWDEPLOY.SHARA11.GLO	TSMP36N		
<input type="checkbox"/>	<a href="#">SHARC30_LAB</a>	LOCAL		This is a software instance created by the z/OSMF Software Management Lab.		SHARC30.SMPELAB.GLOBAL.CSI	DB2V8T, IRLMT, MQ531T, TARGET, ZOS19T		Oct 1, 20
<input type="checkbox"/>	<a href="#">MASTER_zOS_R13_w/Other_Produ</a>	LOCAL		z/OS V1.13 with over 20 other products to be used during the z/OSMF Software Management Lab		SMLAB01.GLOBAL.CSI	COB320T, DT910T, PLI410T, Z1130T		Aug 12, 2

Total: 7 Selected: 0

Last refresh: Oct 1, 2015, 2:04:22 PM

https://mvs1.centers.ihost.com/zosmf/dm/com/ibm/zosmf/dm/inventory/inventory.jsp#

# Step 3 ...

Enter "Master" to only display the \*MASTER\* software instances  
Note: It is not case sensitive

The screenshot shows the IBM z/OS Management Facility interface. The main window displays a list of software instances. A 'Build Filter' dialog box is open, allowing the user to create a filter. The dialog has the following fields and options:

- Match:** A dropdown menu set to 'All rules' and a checkbox for 'Match case' which is unchecked.
- Rules:** A section with a dropdown menu set to 'Name', a dropdown menu set to 'contains', and a text input field containing 'master'. There is a '+' button to add more rules and a '-' button to remove the current rule.
- Buttons:** 'Filter', 'Clear', and 'Close' buttons are located at the bottom of the dialog.

A yellow callout box points to the 'Filter' button with the text: "Then click Filter".

Name Filter	System Filter	Categories Filter	Product FMID Inf Retrieve Filter
<input type="checkbox"/>			
<input type="checkbox"/> SHARA11_SMPEV3R6_WITH_PTFS	LOCA		
<input type="checkbox"/> SHARC30_LAB	LOCA		Oct 1, 20
<input type="checkbox"/> MASTER_zOS_R13_w/Other_Produ	LOCA		Aug 12, 2

Total: 7 Selected: 0

Refresh Last refresh: Oct 1, 2015, 2:04:22 PM

Close

# Step 3 ...

Only the software instances that contain "MASTER" are now displayed

Software Management > Software Instances

Help

## Software Instances

Switch To: ▾

- Actions ▾
  - View
  - Modify
  - Open Deployments
  - Copy...
  - Remove...
  - Retrieve Product, Feature, and FMID Information
  - Maintenance Reports
  - Add...
  - Show Hidden Maintenance Reports
  - Select All
  - Deselect All
  - Configure Columns...
  - Hide Filter Row
  - Clear Sorts
  - Export Table Data
  - Print Table Data

Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product FMID Inf Retrieve Filter
	the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product without any PTFs.					
	Source Software In					
	Deployment Lab. This instance contains z/OS V1R12 at RSU1105.					
	z/OS V1.13 with over 20 other products to be used during the z/OSMF Software Management Lab		SMLAB01.GLOBAL.CSI	COB320T, DT910T, PLI410T, Z1130T		Aug 12, 2

Click Actions, then Select All

Refresh

Last refresh: Oct 1, 2015, 2:04:22 PM

Close





# Step 3

Message IZUD230W is generated stating that the display will exceed 750 rows. You will change the Settings to allow more rows to be displayed.

2. After reviewing the message, click Software Management 'bread crumb'

One or more of the selected software instances are not displayed because the table would contain more than 750 rows, which is not allowed. Return to the Software IZUD230W Instances table, and select fewer software instances, or increase the number of rows that can be displayed in the table.

Actions

4 of 7 items shown. Clear filter

<input checked="" type="checkbox"/>	Name contains "master"	System Filter	Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product FMID Inf Retrieve Filter
<input checked="" type="checkbox"/>	MASTER_zOS_R13_w/Other_Produ	LOCAL		z/OS V1.13 with over 20 other products to be used during the z/OSMF Software Management Lab		B01.GLOBAL.CSI	COB320T, DT910T, PLI410T, Z1130T		Aug 12, 2

1. Optionally, you can click on the message text itself to get more details

Total: 4 Selected: 4

Refresh

Last refresh: Oct 1, 2015, 2:15:24 PM

Close

# Step 3 ...

The screenshot shows the IBM z/OS Management Facility interface. At the top, there is a header with 'IBM z/OS Management Facility' on the left, 'Welcome sharc30' in the center, and a help icon on the right. Below the header, there are two tabs: 'Welcome' and 'Software Manage...'. The main content area is titled 'Software Management' and includes a brief description: 'Use this task to view details about your software inventory, including related products, features, FMIDs, data sets, deployments, and SYSMODs. [Learn more...](#)'. Below this is a table with four rows: 'Software Instances', 'Products', 'Deployments', and 'Settings'. A yellow callout box with a black border and a pointer pointing to the 'Settings' link contains the text 'Click on Settings'.

IBM z/OS Management Facility

Welcome sharc30

Welcome x Software Manage... x

## Software Management

Use this task to view details about your software inventory, including related products, features, FMIDs, data sets, deployments, and SYSMODs. [Learn more...](#)

<a href="#">Software Instances</a>	Define your software to z/OSMF; deploy software; generate reports about your software.
<a href="#">Products</a>	View a consolidated list of the products included in each software instance.
<a href="#">Deployments</a>	Deploy a software instance, and manage existing deployments.
<a href="#">Categories</a>	Create new categories for your software instances and deployments, and manage existing categories.
<a href="#">Settings</a>	Select the time zone in which to display date and time data. Indicate whether to display or suppress information messages.

**Click on Settings**

# Step 3 ...

IBM z/OS Management Facility

Welcome sharc30

Welcome x Software Manage... x

Software Management > Settings

## Settings

Select the time zone to use for date and time data:

Greenwich Mean Time (GMT)

Local (Eastern Standard Time)

Display information messages that notify you that an object was added, modified, or removed:

Yes

No

\* Maximum number of rows to display in tables with data about software instances:

9999

OK Cancel

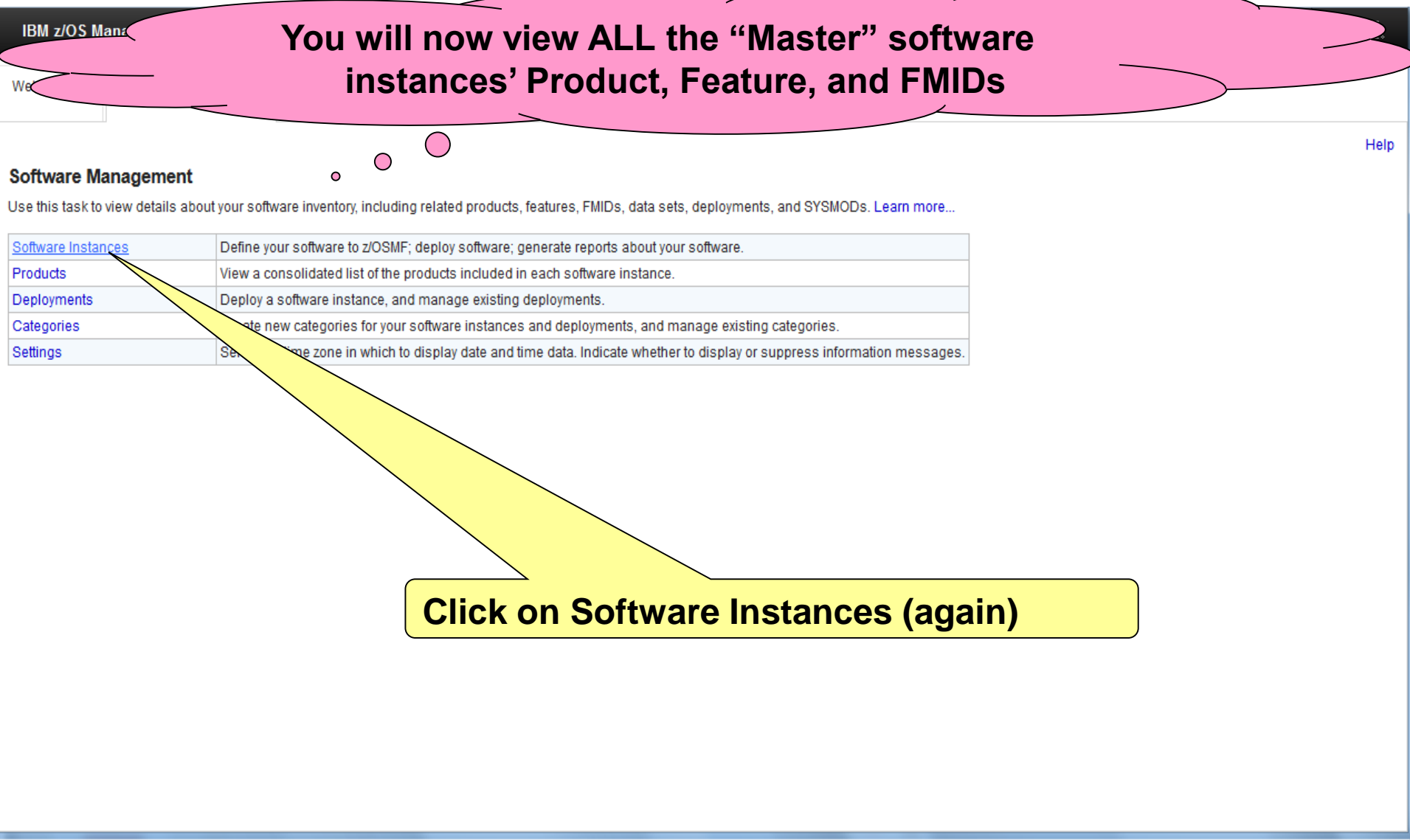
Help

**Change the maximum number of rows to display to 9999, and then click OK**

**Step 4a: View the  
“Master” Software  
Instances’ Products,  
Features, and FMIDs**

# Step 4a

You will now view ALL the “Master” software instances’ Product, Feature, and FMIDs



Click on Software Instances (again)

Notice that the Name Filter is still set and that ONLY Software Instances that contain "Master" are displayed.

### Software Instances

Actions ▾ | Match: All filters

Name Contains "MASTER"	System Filter	Messages Filter	Description Filter	Activity	Global Zone CSI Filter	Target Zones	Categories
<input type="checkbox"/> MASTER_SMPEV3.6_WITH_PTF9	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFs.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP36P	
<input type="checkbox"/> MASTER_SMPEV3.6_WITHOUT_I	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product without any PTFs.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP36	
<input type="checkbox"/> MASTER_ZOSV1.12	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains z/OS V1R12 at RSU1105.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TGTZ12	
<input type="checkbox"/> MASTER_zOS_R13_wOther_Pro	LOCAL		z/OS V1.13 with over 20 other products to be used during the z/OSMF Software Management Lab		SMLAB01.GLOBAL.CSI	COB320T, DT910T, PLI410T, Z1130T	

Total: 4, Filtered: 4, Selected: 0

Last refresh: Jan 28, 2014 2:55:10 PM

# Step 4a ...

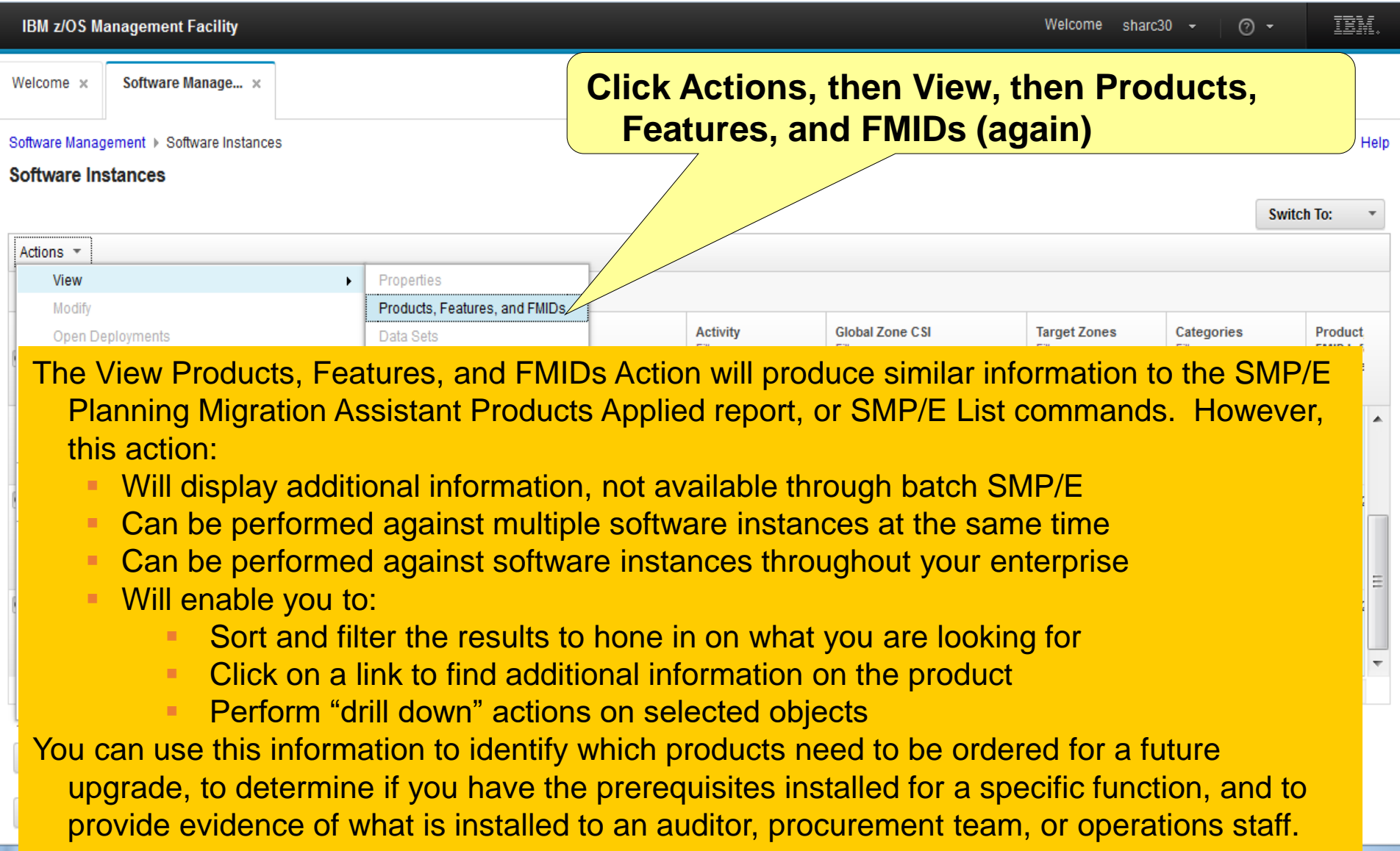
You are going to display Products, Features, and FMIDs for all Software Instances that contain "Master" (again).

The screenshot shows the IBM z/OS Management Facility interface. The page title is "Software Instances". A large pink callout bubble contains the instruction: "You are going to display Products, Features, and FMIDs for all Software Instances that contain 'Master' (again)." The "Actions" menu is open, showing options like "View", "Modify", "Open Deployments", "Copy...", "Remove...", "Retrieve Product, Feature, and FMID Information", "Maintenance Reports", "Add...", "Show Hidden Maintenance Reports", "Select All", "Deselect All", "Configure Columns...", "Hide Filter Row", "Clear Sorts", "Export Table Data", and "Print Table Data". The "Select All" option is highlighted with a blue background. A yellow callout box with the text "Click Actions, then Select All (again)" points to the "Select All" option. The table below has columns: Messages Filter, Description Filter, Activity Filter, Global Zone CSI Filter, Target Zones Filter, Categories Filter, and Product FMID Inf Retrieve Filter. The table contains three rows of data. At the bottom, there is a "Refresh" button and a "Close" button. The "Refresh" button shows "Last refresh: Oct 1, 2015, 2:22:22 PM".

Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product FMID Inf Retrieve Filter
	the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product without any PTFs.					
	Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains...		ZOSMF.SWDEPLOY.GLOBAL.CSI	TGTZ12		Aug 12, 2
	products to be used during the z/OSMF Software Management Lab			PLI4101, Z1130T		Aug 12, 2



# Step 4a ...



The screenshot shows the IBM z/OS Management Facility interface. The top navigation bar includes 'Welcome sharc30' and the IBM logo. The main content area is titled 'Software Instances' and contains a table with columns for 'Activity', 'Global Zone CSI', 'Target Zones', 'Categories', and 'Product'. A yellow callout box points to the 'View' menu item in the 'Actions' dropdown, which has a sub-menu containing 'Properties', 'Products, Features, and FMIDs', and 'Data Sets'. A yellow text box at the bottom explains the purpose of this action.

Welcome sharc30

Welcome x Software Manage... x

Software Management ▶ Software Instances

Software Instances

Switch To: ▼

Actions ▼

- View ▶
  - Properties
  - Products, Features, and FMIDs
  - Data Sets
- Modify
- Open Deployments

Activity	Global Zone CSI	Target Zones	Categories	Product
----------	-----------------	--------------	------------	---------

The View Products, Features, and FMIDs Action will produce similar information to the SMP/E Planning Migration Assistant Products Applied report, or SMP/E List commands. However, this action:

- Will display additional information, not available through batch SMP/E
- Can be performed against multiple software instances at the same time
- Can be performed against software instances throughout your enterprise
- Will enable you to:
  - Sort and filter the results to hone in on what you are looking for
  - Click on a link to find additional information on the product
  - Perform “drill down” actions on selected objects

You can use this information to identify which products need to be ordered for a future upgrade, to determine if you have the prerequisites installed for a specific function, and to provide evidence of what is installed to an auditor, procurement team, or operations staff.

# Step 4a ...

This time all the software instances can be viewed.  
No more message IZUD230W.

IBM z/OS ...

Welcome x Software manage

Software Management > Software Instances > View Products, Features, and FMIDs Help

### View Products, Features, and FMIDs

Products, Features, and FMIDs by Software Instance

Actions ▾ | Table view: Tree



↔ No filter applied

<input type="checkbox"/>	Software Instance / Product / Feature / FMID Filter	System Filter	Messages Filter	Product, Feature, and FMID Information Retrieved (Local) Filter	Release Filter	Product ID Filter	Vendor Filter	General Availability Filter
<input type="checkbox"/>	+ MASTER_SMPEV3.6_WITH_PTFS	LOCAL		Aug 15, 2013, 3:51:00 PM				
<input type="checkbox"/>	+ MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL		Aug 10, 2013, 7:28:52 PM				
<input type="checkbox"/>	+ MASTER_ZOSV1.12	LOCAL		Aug 12, 2013, 3:56:18 PM				
<input type="checkbox"/>	+ MASTER_zOS_R13_w/Other_Product	LOCAL		Aug 12, 2013, 3:45:56 PM				

Total: 1784 Selected: 0

Last refresh: Oct 1, 2015, 2:24:31 PM

# Step 4a ...

IBM z/OS Management Facility Welcome sharc30  

Welcome x Software Manage... x

Software Management > Software Instances > View Products, Features, and FMIDs Help

### View Products, Features, and FMIDs

Products, Features, and FMIDs by Software Instance

Actions Table view: Tree

- View
- Retrieve Product, Feature, and FMID Information
- Maintenance Reports
- Expand
- Collapse
- Show Hidden Maintenance Reports
- Retrieve End of Service Information...
- Select All
- Deselect All
- Configure Columns...
- Hide Filter Row
- Clear Sorts
- Export Table Data
- Print Table Data
- Expand All**
- Collapse All
- Switch to Non-Tree View

System Filter	Messages Filter	Product, Feature, and FMID Information Retrieved (Local)	Release Filter	Product ID Filter	Vendor Filter	General Availability Filter
LOCAL						
LOCAL		Aug 10, 2013, 3:45:56 PM				
LOCAL		Aug 12, 2013, 3:45:56 PM				

**Click Actions, then Expand All**

**Refresh** Last refresh: Oct 1, 2015, 2:24:31 PM

**Close**

# Step 4a ...

The products, features and FMIDs are listed in a tree table

IBM z/OS Management Framework

Software Management > Software Instances > View Products, Features, and FMIDs

### View Products, Features, and FMIDs

Products, Features, and FMIDs by Software Instance

Actions | Table view: Tree

No filter applied

Software Instance / Product / Feature / FMID Filter	System Filter	Messages Filter	Product, Feature, and FMID Information Retrieved (Local) Filter	Release Filter	Product ID Filter	Vendor Filter	General Availability Filter
<input type="checkbox"/> MASTER_SMPEV3.6_WITH_PTFS	LOCAL		Aug 15, 2013, 3:51:00 PM				
<input type="checkbox"/> System Modification Program Extended for z/OS				03.06.00	5655-G44	IBM	Sep 30, 2011
<input type="checkbox"/> SMPE V3 Base							
<input type="checkbox"/> HBCNC00							
<input type="checkbox"/> HBCND0B							
<input type="checkbox"/> HMP1J00							

Total: 1784 Selected: 0

**Refresh** Last refresh: Oct 1, 2015, 2:24:31 PM

**Close**

You can scroll right

# Step 4a ...

The General Availability date, End of Service dates, and Additional Product Information are not available in batch SMP/E reports

IBM z/OS Management Facility

Welcome x Software Manage... x

Software Management > Software Instances > View Products, Features, and FMIDs Help

### View Products, Features, and FMIDs

Products, Features, and FMIDs by Software Instance

Actions | Table view: Tree

No filter applied

Software Instance / Product / Feature / FMID Filter	System Filter	General Availability Filter	End of Service Filter	Additional Product Information Filter	Product Information File Version Filter
<input type="checkbox"/> MASTER_SMPEV3.6_WITH_PTFS	LOCAL				
<input type="checkbox"/> System Modification Program Extended for z/OS		Sep 30, 2011	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5655-G44">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5655-G44</a>	Sep 12, 2013
<input type="checkbox"/> SMP/E V3 Base					
<input type="checkbox"/> HBCNC00					
<input type="checkbox"/> HBCND0B					
<input type="checkbox"/> HMP1J00					



Total: 1784 Selected: 0

Refresh

Note: Additional columns are displayed but not shown in the handout. If they don't appear, then optionally you can scroll right again.

**Step 4b: View the  
“Master” Software  
Instances’ Additional  
Product Information**

# Step 4b

IBM z/OS Management Facility Welcome sharc30  


Welcome x Software Manage... x

Software Management > Software Instances > View Products, Features, and FMIDs Help

## View Products, Features, and FMIDs

Products, Features, and FMIDs by Software Instance

Actions ▾ | Table view: Tree

 No filter applied

<input type="checkbox"/>	Software Instance / Product / Feature / FMID Filter	System Filter	General Availability Filter	End of Service Filter	Additional Product Information Filter	Product Information File Version Filter
<input type="checkbox"/>	<input type="checkbox"/> MASTER_SMPEV3.6_WITH_PTFS	LOCAL				
<input type="checkbox"/>	<input type="checkbox"/> System Modification Program Extended for z/OS		Sep 30, 2011	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5655-G44">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5655-G44</a>	Sep 12, 2013
<input type="checkbox"/>	<input type="checkbox"/> SMP/E V3 Base					
<input type="checkbox"/>	HBCNCO					
<input type="checkbox"/>	HBCNDO					
<input type="checkbox"/>	HMP1J00					

Total: 1784 Selected: 0

Last refresh: Oct 1, 2015, 2:24:31 PM

Click the Additional Product Information link and view the IBM Sales Manual description of the product in another tab of your browser session

# Step 4b ...

Offering Information > IBM Sales Manual >

[Feedback](#)

## 5655-G44 IBM System Modification Program Extended (SMP/E) for z/OS V3.6

IBM United States Sales Manual  
Revised: August 06, 2013.

- Product Life Cycle Dates
- Program Number
- Abstract
- Product
- High

- Description
- Technical Description

**The Additional Product Information link enables you to view the IBM Sales Manual description of the product in another tab of your browser session**

Number					
5655-G44	03.06.00	2011/09/26			
5655-G44	03.05.00	2008/08/05	2008/09/26	-	2011/09/26
5655-G44	03.04.00	2005/07/26	2005/09/30	2008/09/26	2010/09/30
5655-G44	03.03.00	2004/08/10	2004/09/24	2005/09/30	2007/09/30
5655-G44	03.02.00	2003/05/13	2003/05/30	2004/09/24	2007/09/30
5655-G44	03.01.00	2001/09/11	2001/10/26	2003/05/30	2007/03/31

[Back to top](#)

---

**Program Number**

---

IBM SMP/E for z/OS V3.6 (5655-G44)



**Step 4c: View the  
“Master” Software  
Instances’ Properties**

# Step 4c

You are going to perform actions against a single Software Instance, so click on the “breadcrumbs”

IBM z/OS Management Facility

Welcome x Software Manage... x

Software Management > Software Instances > View Products, Features, and FMIDs Help

### View Products, Features, and FMIDs

Products, Features, and FMIDs by Software Instance

Actions Table view: Tree

No filter applied

Software Instance / Product / Feature / FMID Filter	System Filter	General Availability Filter	End of Service Filter	Additional Product Information Filter	Product Information File Version Filter
<input type="checkbox"/> MASTER_SMPEV3.6_WITH_PTFS	LOCAL				
<input type="checkbox"/> System Modification Program Extended for z/OS				<a href="#">http://www.ibm.com/common/ssi/cgi-bin/ssi?infotype=dd&amp;subtype=sm&amp;shopzSeries&amp;htmlfid=897/ENUS5655-G44</a>	Sep 12, 2013
<input type="checkbox"/> SMP/E V3 Base					
<input type="checkbox"/> HBCNC00					
<input type="checkbox"/> HBCND0B					
<input type="checkbox"/> HMP1J00					

Total: 1784 Selected: 0

Refresh Last refresh: Oct 1, 2015, 2:24:31 PM

Close

**Click on Software Instances**

# Step 4c ...

Now select the "Master" software instance created for this lab.

IBM z/OS Management Facility

Welcome x Software Manage... x

Software Management > Software Instances Help

### Software Instances

Switch To: ▾

Actions ▾

4 of 7 items shown. Clear filter

<input type="checkbox"/>	Name contains "master"	System Filter	Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product FMID Inf Retrieve Filter
<input type="checkbox"/>				the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product without any PTFs.					
<input type="checkbox"/>	MASTER_ZOSV1.12	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains z/OS V1R12 at RSU1105.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TGTZ12		Aug 12, 2
<input checked="" type="checkbox"/>	MASTER_zOS_R13_w/Other_Produ	LOCAL		z/OS V1.13 with over 20 other products to be used during the z/OSMF Software Management		SMLAB01.GLOBAL.CSI	COB320T, DT910T, PLI410T, Z1130T		Aug 12, 2

Total: 4 Selected: 1

Refresh Last refresh: Oct 1, 2015, 2:22:22 PM

Close

1. Deselect all software instances
2. Select the MASTER\_zOS\_R13\_w/Other\_Product software instance

# Step 4c ...

First you will view the properties.

IBM z/OS Management Facility Welcome sharc30 ?

Welcome x Software Manage... x

Software Management > Software Instances Help

### Software Instances

Switch To: ▾

Actions ▾

- View ▸
- Modify
- Open Deployments
- Copy...
- Remove...
- Retrieve Product, Feature, and FMID Information
- Maintenance Reports ▸
- Add...
- Show Hidden Maintenance Reports
- Select All
- Deselect All
- Configure Columns...
- Hide Filter Row
- Clear Sorts
- Export Table Data ▸
- Print Table Data ▸

Products, Features, and FMIDs	Data Sets	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product FMID Inf Retrieve Filter
the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product without any PTFs.						
Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains z/OS V1R12 at RSU1105.			ZOSMF.SWDEPLOY.GLOBAL.CSI	TGTZ12		Aug 12, 2
z/OS V1.13 with over 20 other products to be used during the z/OSMF Software Management Lab			SMLAB01.GLOBAL.CSI	COB320T, DT910T, PLI410T, Z1130T		Aug 12, 2

Total: 4 selected. 1

**Refresh** Last refresh: Oct 1, 2015, 2:22:22 PM

**Close**

Click Actions, then View, then Properties

# Step 4c ...

Multiple tabs are available to view details of this specific software instance. You can see the description, what SMP/E zones are defined, as well as any non-SMP/E managed data sets

IBM z/OS Management Facility

Welcome x Software Manage... x

Software Management > Software Instances > View Software Instance Help

### View MASTER\_zOS\_R13\_w/Other\_Product

General SMP/E Zones Non-SMP/E Managed Data Sets

Name:  
MASTER\_zOS\_R13\_w/Other\_Product

Description: (maximum 256 characters, currently 100 characters)  
z/OS V1.13 with over 20 other products to be used during the z/OSMF Software Management Lab

Categories:  
There is no data to display.

Action Summary

Action	Date and Time (Local)	User
Modified	Jan 9, 2013, 5:39:53 PM	GDAYNES
Created	Jan 7, 2013, 1:51:35 PM	GDAYNES
Locked		

Close

After reviewing the General information, click the SMP/E zones tab.

# Step 4c ...

The SMP/E Zones tab shows a list of GLOBAL zone CSI data sets and which is used for this software instance, as well as what SMP/E target zones are defined.

IBM z/OS Management Facility

Welcome x Software Manage... x

Software Management > Software Instances > View Instance

View MASTER\_zOS\_R13\_w...\_Product

General SMP/E Zones Non-SMP/E Managed Data Sets

Global Zones

	CSI Data Set	System	Description	Last Modified (Local)	Modified By	Locked (Local)	Locked By
<input type="radio"/>	ZOSMF.SWDEPLOY.GLOBAL.CSI	LOCAL	Master GLOBAL CSI for Software Deployment Lab				
<input type="radio"/>	SHARC04.SMPELAB.GLOBAL.CSI	LOCAL	Test lab exercise				
<input type="radio"/>	SHARC05.SMPELAB.GLOBAL.CSI	LOCAL	Test CSI				
<input type="radio"/>	ZOSMF.SWDEPLOY.SHARA11.GLOBAL.CSI	LOCAL		Sep 30, 2015, 11:01:09 PM	SHARA11		
<input type="radio"/>	SHARC30.SMPELAB.GLOBAL.CSI	LOCAL	This is an existing GLOBAL CSI with TARGET and DLIB zones created for this lab user.	Oct 1, 2015, 11:36:16 AM	SHARC30		
<input checked="" type="radio"/>	SMLAB01.GLOBAL.CSI	LOCAL	Global zone data set fro the z/OSMF Software Management Lab	Jan 2, 2013, 10:34:49 AM	MFUSR01		

Total: 6 Selected: 1

Target Zones:  
COB320T  
DT910T  
PLI410T  
Z1130T

Close

Alternatively click the Non-SMP/E Managed Data Sets tab.

After reviewing the SMP/E zone information and optionally the non-SMP/E Managed data sets information, click Close

# Step 4c ...

You are brought back to the list of “Master” software instances, with the MASTER\_zOS\_R13\_w/Other\_Product still selected

IBM z/OS Management Facility

Welcome x Software Manage... x

Software Management > Software Instances Help

### Software Instances

Switch To: ▾

Actions ▾

4 of 7 items shown. Clear filter

<input type="checkbox"/>	Name contains "master"	System Filter	Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product FMID Inf Retrieve Filter
<input type="checkbox"/>				the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product without any PTFs.					
<input type="checkbox"/>	MASTER_ZOSV1.12	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains z/OS V1R12 at RSU1105.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TGTZ12		Aug 12, 2
<input checked="" type="checkbox"/>	MASTER_zOS_R13_w/Other_Produ	LOCAL		z/OS V1.13 with over 20 other products to be used during the z/OSMF Software Management Lab		SMLAB01.GLOBAL.CSI	COB320T, DT910T, PLI410T, Z1130T		Aug 12, 2

Total: 4 Selected: 1

Refresh Last refresh: Oct 1, 2015, 2:22:22 PM

Close

**Step 4d: View the  
“Master” Software  
Instances’ Data Sets**



# Step 4d

Now you will view another aspect of the Software Instance: data sets.

The screenshot shows the IBM z/OS Management Facility interface. At the top, there's a navigation bar with 'Software Management' and 'Software Instances'. Below that, the 'Software Instances' title is displayed. On the right, there's a 'Switch To:' dropdown menu. The main area contains a table with columns for 'Activity Filter', 'Global Zone CSI Filter', 'Target Zones Filter', 'Categories Filter', and 'Product FMID Inf Retrieve Filter'. An 'Actions' menu is open on the left, showing options like 'View', 'Modify', 'Open Deployments', etc. The 'View' option is selected, and a sub-menu is open with 'Data Sets' highlighted. A yellow callout box points to the 'Data Sets' option with the text: 'Making sure that MASTER\_zOS\_R13\_w/Other\_Product is still selected, Click Actions, then View, then Data Sets.' At the bottom, there are 'Refresh' and 'Close' buttons. The 'Refresh' button shows 'Last refresh: Oct 1, 2015, 2:45:50 PM'.

**Making sure that MASTER\_zOS\_R13\_w/Other\_Product is still selected, Click Actions, then View, then Data Sets.**

# Step 4d

Software Management dynamically analyzes the GLOBAL, target and distribution zones to determine the list of data sets that make up the software instance. The list is limited to those data sets (DDDEFs) that can possibly be updated using SMP/E commands and any non-SMP/E managed data sets that were defined.

The screenshot displays the IBM z/OS MVS Software Management interface. At the top, there is a header with 'IBM z/OS M' and a 'Welcome' message. Below this is a 'Software Instance' table with columns for Name, System, Messages, Activity, Global Zone CSI, Target Zones, Categories, and Product FMID Inf. A pop-up dialog box is overlaid on the table, showing a progress indicator at 1% and a 'Cancel' button. The dialog text reads: 'Retrieving information about the data sets included in the selected software instance. This request might take several minutes to complete.' The table below the dialog shows several rows, including 'MASTER\_ZOSV1.12' and 'MASTER\_zOS\_R13\_w/Other\_Produ'. At the bottom of the interface, there are buttons for 'Refresh' and 'Close', along with a 'Last refresh' timestamp of 'Oct 1, 2015, 2:45:50 PM'.

Name	System	Messages	Activity	Global Zone CSI	Target Zones	Categories	Product FMID Inf
contains "master"	Filter	Filter	Filter	Filter	Filter	Filter	Retrieve Filter
MASTER_ZOSV1.12							Aug 12, 2
MASTER_zOS_R13_w/Other_Produ	LOCAL		z/OS V1.13 with over 20 other products to be used during the z/OSMF So Lab	SMLAB01.GLOBAL.CSI	COB320T, DT910T, PLI410T, Z1130T		Aug 12, 2

Pop-up window with a progress indicator to alert you that this might take a few minutes, and allow you to cancel. Let it continue.

# Step 4d ...

Data sets are displayed in ISPF Data Set List (3.4) like format showing the data sets and its attributes.

IBM z/OS Management Facility

Welcome x Software Manage... x

Software Management > Software Instances > View Data Sets Help

### View Data Sets

Selected software instance: MASTER\_zOS\_R13\_w/Other\_Product on system LOCAL

SMP/E Managed Data Sets SMP/E Managed UNIX Data Sets Non-SMP/E Managed Data Sets

Actions ▾

↔ No filter applied

Data Set Name Filter	Messages Filter	Zone Names Filter								
ABJ.H09F210.AABJCLST		Z1130D								
ABJ.H09F210.AABJLCP		Z1130D	SHAR02	PDS	FB	80	27920	57	100	1
ABJ.H09F210.AABJMLIB		Z1130D	SHAR02	PDS	FB	80	27920	1	100	1
ABJ.H09F210.AABJMOD1		Z1130D	SHAR02	PDS	U		32760	13	100	1
ABJ.H09F210.AABJPLIB		Z1130D	SHAR02	PDS	FB	80	27920	11	100	1
ABJ.H09F210.AABJSAM1		Z1130D	SHAR02	PDS	FB	80	27920	10	100	1
ABJ.H09F210.AABJSAM2		Z1130D	SHAR02	PDS	VB	1028	27998	32	100	1
ABJ.H09F210.AABJISIR		Z1130D	SHAR02	PDS	FR	80	27920	3	100	1

After reviewing click the Non-SMP/E Managed Data Sets tab.

You can use filters to identify conforming/non-conforming: data set names, data set placement, possibly based on data set type, data sets with more than one extent, etc. In the lab you will identify data sets with more than one extent.

# Step 4d ...

Information about the non-SMP/E managed data sets is also dynamically retrieved and displayed.

IBM z/OS Management

Welcome x

Software Manage... x

Software Management > Software Instances > View Data Sets

Help

## View Data Sets

Selected software instance: MASTER\_zOS\_R13\_w/Other\_Product on system LOCAL

SMP/E Managed Data Sets

SMP/E Managed UNIX Data Sets

Non-SMP/E Managed Data Sets

Actions ▾

↕ No filter applied

Data Set Name Filter	Messages Filter	VS Filter	Data Set Type Filter	RECFM Filter	LRECL Filter	BLKSIZE Filter	Tracks Filter	% Used Filter	Extents Filter
SYS1.PARMLIB		SHAR03		FB	80	27920	1	100	1
SYS1.PROCLIB		SHAR03		FB	80	27920	1	100	1

Total: 2

After reviewing click the SMP/E Managed UNIX Data Sets tab

Close

## View Data Sets ...

- **PTFs UI16044 and UI16028 on z/OSMF V2.1 (and in z/OS V2.2) enhance the View Data Sets function by adding an SMP/E Managed UNIX Data Set Tab**
  - You can easily identify the z/OS UNIX data sets that are used for a specific software instance.
  - You can expand the view to show the SMP/E DDDEF path names that use each data set

# Step 4d ...

Information about each of the z/OS UNIX file systems for the SMP/E managed files has been dynamically retrieved and displayed.

### View Data Sets

Selected software instance: MASTER\_zOS\_R13\_w/Other\_Product on system LOCAL

Actions | Table view: Tree

↔ No filter applied

Data Set Name / UNIX Directory Filter	Messages Filter	Zone Names Filter	Volumes Filter	Data Set Type Filter	RECFM Filter	LRECL Filter	BLKSIZE Filter	Tracks Filter	% Used Filter	Exter Filter
+ SMLAB01.COB32.ZFS		COB320T	SHAR04	ZFS				15		
+ SMLAB01.JAVA31V7		Z1130T	SHAR04	ZFS				5310		
+ SMLAB01.JAVA64V7		Z1130T	SHAR04	ZFS				6795		
+ SMLAB01.NETVHFS		Z1130T	SHAR04	ZFS				135		
+ SMLAB01.PL141.ZFS		PL1410T	SHAR04	ZFS				75		
+ SMLAB01.ROOT		Z1130T	SHAR04	ZFS				49755		
+ SMLAB01.SBBN7HFS		Z1130T	SHAR04	ZFS				32280		

Total: 168

Close

# Step 4d ...

IBM z/OS Management Facility Welcome sharc30

Welcome x Software Manage... x

Software Management > Software Instances > View Data Sets

### View Data Sets

Selected software instance: MASTER\_zOS\_R13\_w/Other\_Product on system LOCAL

SMP/E Managed Data Sets **SMP/E Managed UNIX Data Sets** Non-SMP/E Managed Data Sets

Actions Table view: Tree

- Configure Columns...
- Hide Filter Row
- Clear Sorts
- Export Table Data
- Print Table Data
- Expand All**
- Collapse All
- Switch to Non-Tree View

	Zone Names Filter	Volumes Filter	Data Set Type Filter	RECFM Filter	LRECL Filter	BLKSIZE Filter	Tracks Filter	% Used Filter	External Filter
	Z1130T	SHAR04	ZFS				49755		
	Z1130T	SHAR04	ZFS				32280		
	Z1130T	SHAR04	ZFS				555		
+ SMLAB01.SHPEROOT	Z1130T	SHAR04	ZFS				1305		
+ SMLAB01.SHPHROOT	Z1130T	SHAR04	ZFS				180		
+ SMLAB01.SHPUROOT	Z1130T	SHAR04	ZFS				150		
+ SMLAB01.SIBMROOT	Z1130T	SHAR04	ZFS				30		

Total: 168

Close

**Click Actions and then Expand All to see the SMP/E managed paths**

# Step 4d ...

**After reviewing click the SMP/E Managed Data Sets tab so you can filter the list.**


Welcome x Software Manage... x  
Software Management > Software Instances > View Data Sets

## View Data Sets

Selected software instance: MASTER\_zOS\_R13\_w/Other\_Product

**SMP/E Managed Data Sets** | SMP/E Managed UNIX Data Sets | Non-SMP/E Managed Data Sets

Actions | Table view: Tree

 No filter applied

Data Set Name / UNIX Directory Filter	Messages Filter	Zone Names Filter	Volumes Filter	Data Set Type Filter	RECFM Filter	LRECL Filter	BLKSIZE Filter	Tracks Filter	% Used Filter	Exter Filter
<input type="checkbox"/> SMLAB01.COB32.ZFS /sharelab/COB320/bin/IBM/		COB320T	SHAR04	ZFS				15		
<input type="checkbox"/> SMLAB01.JAVA31V7 /sharelab/SMLAB01/usr/lpp/java/J7.0/IBM/		Z1130T	SHAR04	ZFS				5310		
<input type="checkbox"/> SMLAB01.JAVA64V7 /sharelab/SMLAB01/usr/lpp/java/J7.0_64/IBM/		Z1130T	SHAR04	ZFS				6795		

Total: 168

Close



# Step 4d ...

**Click on the filter in the Extents column**

## View Data Sets

Selected software instance: MASTER\_zOS\_R13\_w/Other\_Product on system LOCAL

- SMP/E Managed Data Sets
- SMP/E Managed UNIX Data Sets
- Non-SMP/E Managed Data Sets

Actions ▾

↕ No filter applied

Data Set Name Filter	Pages	Zone Names Filter	Volumes Filter	Data Set Type Filter	RECFM Filter	LRECL Filter	BLKSIZE Filter	Tracks Filter	% Used Filter	Extents Filter
ABJ.H09F210.AABJCLST		Z1130D	SHAR02	PDS	FB	80	27920	7	100	1
ABJ.H09F210.AABJLCP		Z1130D	SHAR02	PDS	FB	80	27920	57	100	1
ABJ.H09F210.AABJMLIB		Z1130D	SHAR02	PDS	FB	80	27920	1	100	1
ABJ.H09F210.AABJMOD1		Z1130D	SHAR02	PDS	U		32760	13	100	1
ABJ.H09F210.AABJPLIB		Z1130D	SHAR02	PDS	FB	80	27920	11	100	1
ABJ.H09F210.AABJSAM1		Z1130D	SHAR02	PDS	FB	80	27920	10	100	1
ABJ.H09F210.AABJSAM2		Z1130D	SHAR02	PDS	VB	1028	27998	32	100	1
ABJ.H09F210.AABJISIR		Z1130D	SHAR02	PDS	FB	80	27920	3	100	1

Total: 1158

Close

# Step 4d ...

**Change the condition to “Greater than” and Enter “1” for the “Value”**

IBM z/OS Management Facility

Welcome x Software Manage... x

Software Management > Software Instances > View Data Sets

### View Data Sets

Selected software instance: MASTER\_zOS\_R13\_w/Other\_Product on system LOCAL

SMP/E Managed Data Sets

Actions > No filter applied

Data Set Name	Filter	Tracks Filter	% Used Filter	Extents Filter
ABJ.H09F210.AABJCLST		7	100	1
ABJ.H09F210.AABJLCP		57	100	1
ABJ.H09F210.AABJMLIB		1	100	1
ABJ.H09F210.AABJMOD1		13	100	1
ABJ.H09F210.AABJPLIB		11	100	1
ABJ.H09F210.AABJSAM1		10	100	1
ABJ.H09F210.AABJSAM2		32	100	1
ARJ.H09F210.AARJISI IR		3	100	1

Total: 1158

Close

### Build Filter

Match: All rules  Match case

Rules

Extents

- equals
- equals**
- is greater than**
- is less than
- does not equal
- range

Filter Clear Close

**Then click Filter**

# Step 4d ...

With the filter set, you can easily see the 10 data sets that have secondary extents. You could further filter the Volumes column to identify those data sets with secondary extents that reside on the SYSRES.

IBM z/OS Management Facility

Welcome x Software Manage... x

Software Management > Software Instances > View Data Sets

## View Data Sets

Selected software instance: MASTER\_zOS\_R13\_w/Other\_Product on system LOCAL

SMP/E Managed Data Sets SMP/E Managed UNIX Data Sets Non-SMP/E Managed Data Sets

After reviewing, click on the filter in the Extents column

Actions ▾

10 of 1158 items shown. Clear filter

Data Set Name Filter	Pages	Zone Names Filter	Volumes Filter	Data Set Type Filter	RECFM Filter	LRECL Filter	BLKSIZE Filter	Tracks Filter	Filter	Extents is greater than "1"
CEE.SCEERUN2		Z1130T	SHAR01	PDSE	U		32760	23877	90	2
SMLAB01.SMPPTS		COB320D, COB320T, DT910D, DT910T, GLOBAL, PLI410D, PLI410T, Z1130D, Z1130T	SHAR02	PDSE	FB	80	32720	71902	63	2
SYS1.AIEALNKE		Z1130D	SHAR03	PDSE	U		32760	2974	90	2
SYS1.ANFSLIBE		Z1130D	SHAR03	PDSE	U		32760	254	90	2
SYS1.SHASLNKE		Z1130T	SHAR01	PDSE	U		32760	94	89	2

Total: 10

Close

# Step 4d ...

IBM z/OS Management Facility Welcome sharc30 ?

Welcome x Software Manage... x

Software Management > Software Instances > View Data Sets Help

### View Data Sets

Selected software instance: MASTER\_zOS\_R13\_w/Other\_Product on system LOCAL

SMP/E Managed Data Sets SMP/E

Actions ▾

↔ 10 of 1158 items shown. [Clear filter](#)

Data Set Name	Filter
CEE.SCEERUN2	
SMLAB01.SMPPTS	
SYS1.AIEALNKE	
SYS1.ANFSLIBE	
SYS1.SHASLNKE	

#### Build Filter

Match All rules ▾  Match case

##### Rules

Extents ▾ is greater than ▾ 1 −

+

Filter Clear Close

Tracks	% Used	Extents
Filter	Filter	is greater than "1"
23877	90	2
71902	63	2
2974	90	2
254	90	2
94	89	2

Total

Close

**Click on Clear to remove the filter.**

# Step 4d ...

You are back to the original list of data sets. You will now use filtering to verify that there are no HFS data sets on volume SHAR04.

IBM z/OS Management Facility

Welcome x Software Manage... x

Software Management > Software Instances >

### View Data Sets

Selected software instance: MASTER\_zOS\_R13\_wOther\_Product on system L00...

SMP/E Managed Data Sets | **SMP/E Managed UNIX Data Sets** | Non-SMP/E Managed Data

Actions ▾



↔ No filter applied

Data Set Name Filter	Zone Names Filter	Volumes Filter	Data Set Type Filter	RECFM Filter	LRECL Filter	BLKSIZE Filter	Tracks Filter	% Used Filter	Extents Filter
ABJ.H09F210.AABJCLST	Z1130D	SHAR02	PDS	FB	80	27920	7	100	1
ABJ.H09F210.AABJLCP	30D	SHAR02	PDS	FB	80	27920	57	100	1
ABJ.H09F210.AABJMLIB		SHAR02	PDS	FB	80	27920	1	100	1
ABJ.H09F210.AABJMOD1		SHAR02	PDS	U		32760	13	100	1
ABJ.H09F210.AABJPLIB		SHAR02	PDS	FB	80	27920	11	100	1
ABJ.H09F210.AABJPLIB		SHAR02	PDS	FB	80	27920	10	100	1
ABJ.H09F210.AABJPLIB		SHAR02	PDS	FB	80	27920	32	100	1
ABJ.H09F210.AABJPLIB		SHAR02	PDS	FB	80	27920	3	100	1

Total: 1158

Click on the SMP/E Managed UNIX Data Sets folder

# Step 4d ...

IBM z/OS Management Facility Welcome sharc30  

Welcome x Software Manage... x

Software Management > Software Instances > View Data Sets Help

### View Data Sets

Selected software instance: MASTER\_zOS\_R13\_w/Other\_Product on system LOCAL

SMP/E Managed Data Sets **SMP/E Managed UNIX Data Sets** Non-SMP/E Managed Data Sets

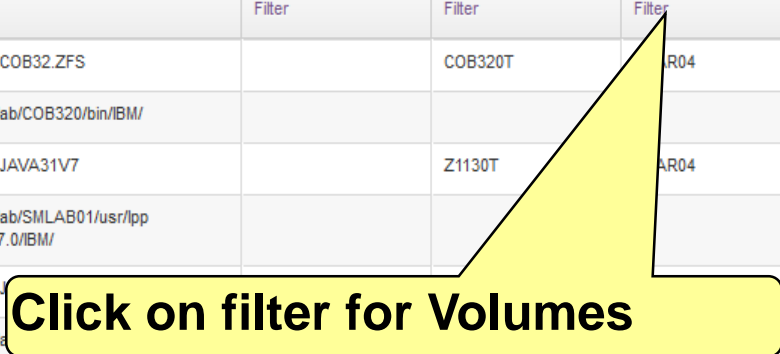
Actions ▾ | Table view: Tree

↕ No filter applied

Data Set Name / UNIX Directory Filter	Messages Filter	Zone Names Filter	Volumes Filter	Data Set Type <a href="#">Filter</a>	RECFM Filter	LRECL Filter	BLKSIZE Filter	Tracks Filter	% Used Filter	Exter Filter
<input type="checkbox"/> SMLAB01.COB32.ZFS /sharelab/COB320/bin/IBM/		COB320T	R04	ZFS				15		
<input type="checkbox"/> SMLAB01.JAVA31V7 /sharelab/SMLAB01/usr/lpp /java/J7.0/IBM/		Z1130T	AR04	ZFS				5310		
<input type="checkbox"/> SMLAB01... /sharelab... /java/J7.0_64/IBM/				ZFS				6795		

Total: 168

<https://mvs1.centers.ihost.com/zosmf/dm/com/ibm/zosmf/dm/inventory/inventory.jsp#>



# Step 4d ...

IBM z/OS Management Facility Welcome sharc30 ?

Welcome x Software Manage... x

Software Management > Software Instances > View Data Sets Help

### View Data Sets

Selected software instance: MASTER\_zOS\_R13

SMP/E Managed Data Sets SMP/E Mana

Actions Table view: Tree

No filter applied

Data Set Name / UNIX Directory	Tracks Filter	% Used Filter	Extents Filter
SMLAB01.COB32.ZFS /sharelab/COB320/bin/IBM/	5		
SMLAB01.JAVA31V7 /sharelab/SMLAB01/usr/lpp/java/J7.0/IBM/	310		
SMLAB01.JAV... /sharelab/.../java/J7.0...	795		

Total: 168

#### Build Filter

Match All rules  Match case



**Rules**

Volumes contains shar04

**Click on contains and shar04 (not case sensitive), then Filter**

Close

# Step 4d ...

IBM z/OS Management Facility Welcome sharc30  

Welcome x Software Manage... x

Software Management > Software Instances > View Data Sets Help

### View Data Sets

Selected software instance: MASTER\_zOS\_R13\_w/Other\_Product on system LOCAL

SMP/E Managed Data Sets **SMP/E Managed UNIX Data Sets** Non-SMP/E Managed Data Sets

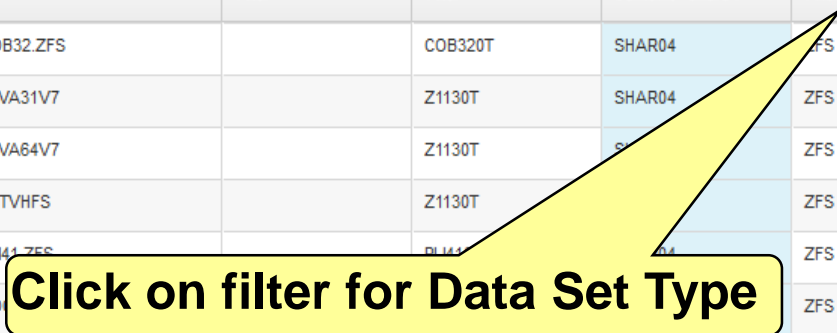
Actions ▾ | Table view: Tree

↕ 15 of 168 items shown. [Clear filter](#)

Data Set Name / UNIX Directory Filter	Messages Filter	Zone Names Filter	Volumes contains "shar04"	Data Set Type Filter	RECFM Filter	LRECL Filter	BLKSIZE Filter	Tracks Filter	% Used Filter	Extents Filter
SMLAB01.COB32.ZFS		COB320T	SHAR04	ZFS				15		
SMLAB01.JAVA31V7		Z1130T	SHAR04	ZFS				5310		
SMLAB01.JAVA64V7		Z1130T	SHAR04	ZFS				6795		
SMLAB01.NETVHFS		Z1130T	SHAR04	ZFS				135		
SMLAB01.PLI41.ZFS		PLI41	SHAR04	ZFS				75		
SMLAB01.RO				ZFS				49755		
SMLAB01.SBBN7HFS		Z1130T	SHAR04	ZFS				32280		

Total: 15

Close





# Step 4d ...

Welcome x Software Manage... x

Software Management > Software Instances > View Data Sets

## View Data Sets

Selected software instance: MASTER\_zOS\_R13\_w/Other\_Product on system

SMP/E Managed Data Sets SMP/E

Actions Table view: Tree  
15 of 168 items shown. Clear filter

Data Set Name / UNIX Directory filter

SMLAB01.COB32.ZFS
SMLAB01.JAVA31V7
SMLAB01.JAVA64V7
SMLAB01.NETVHFS
SMLAB01.PL141.ZFS
SMLAB01.ROOT
SMLAB01.SBBN7HFS

Total: 15

Close

Type "contains" and "hfs" for the values (case doesn't matter) for the Data Set Type

### Build Filter

Match All rules  Match case

**Rules**

Volumes contains shar04 -

Data Set Type contains hfs ✖ This value is required.

Filter Clear Close

Then click Filter

Tracks Filter	% Used Filter	Extents Filter
15		
5310		
135		
75		
49755		
32280		

# Step 4d ...

**There are no HFS data set types on volume SHAR04. Let's remove the filters.**

IBM z/OS Management Facility

Welcome x Software Manage... x

Software Management > Software Instances > View Data Sets

### View Data Sets

Selected software instance: MASTER\_zOS\_R13\_w/Other\_Product on system LOCAL

SMP/E Managed Data Sets **SMP/E Managed UNIX Data Sets** Non-SMP/E Managed Data Sets

Actions | Table view: Tree

0 of 168 items shown. Clear filter



Data Set Name / UNIX Directory Filter	Messages Filter	Zone Names Filter	Volumes contains "shar04"	Data Set Type contains "hfs"	RECFM Filter	LRECL Filter	BLKSIZE Filter	Tracks Filter	% Used Filter	Extents Filter
There is no data to display.										

Total: 0

Close

**Click on Filter in any column.**

# Step 4d ...

IBM z/OS Management Facility Welcome sharc30  

Welcome x Software Manage... x

Software Management > Software Instances > View Data Sets Help

### View Data Sets

Selected software instance: MASTER\_zOS\_R13\_w/Other\_Product on system LOCAL

SMP/E Managed Data Sets SMP/E M

Actions Table view: Tree

o of 168 items shown. Clear filter

Data Set Name / UNIX Directory filter

Tracks Filter	% Used Filter	Extents Filter





Total: 0

Close

### Build Filter

Match All rules  Match case

**Rules**

Volumes	contains	shar04
 		
Data Set Type	contains	hfs
 		
RECFM	contains	Select or type

Filter Clear Close

**Click on Clear to clear all the filters. You can click on the red '-' to remove an individual filter here.**

# Step 4d ...

The screenshot shows the IBM z/OS Management Facility interface. At the top, the title bar reads "IBM z/OS Management Facility" with a "Welcome" message and a user identifier "sharc30". Below the title bar, there are tabs for "Welcome" and "Software Manage...". The main content area is titled "View Data Sets" and shows a breadcrumb trail: "Software Management > Software Instances > View Data Sets". Below this, it states "Selected software instance: MASTER\_zOS\_R13\_w/Other\_Product on system LOCAL". There are three tabs for data sets: "SMP/E Managed Data Sets", "SMP/E Managed UNIX Data Sets" (which is selected), and "Non-SMP/E Managed Data Sets". A table is displayed with columns for "Data Set Name / UNIX Directory", "Messages", "Zone", "LRECL", "BLKSIZE", "Tracks", "% Used", and "Extents". A dialog box titled "Clear Filter" is overlaid on the table, containing the text "This will remove the filter and show all available records." and two buttons: "Clear" and "Cancel". A yellow callout box points to the "Clear" button with the text "Click on Clear to confirm that you want all filters removed." At the bottom left, there is a "Close" button.

IBM z/OS Management Facility

Welcome sharc30

Welcome x Software Manage... x

Software Management > Software Instances > View Data Sets

View Data Sets

Selected software instance: MASTER\_zOS\_R13\_w/Other\_Product on system LOCAL

SMP/E Managed Data Sets SMP/E Managed UNIX Data Sets Non-SMP/E Managed Data Sets

Actions Table view: Tree

0 of 168 items shown. Clear filter

Data Set Name / UNIX Directory Filter	Messages Filter	Zone Filter	LRECL Filter	BLKSIZE Filter	Tracks Filter	% Used Filter	Extents Filter
---------------------------------------	-----------------	-------------	--------------	----------------	---------------	---------------	----------------

Clear Filter

This will remove the filter and show all available records.

Clear Cancel

**Click on Clear to confirm that you want all filters removed.**

Total: 0

Close

# Step 4d ...

Now, all filters are removed and you can see all the SMP/E Managed UNIX Data Sets.

## View Data Sets

Selected software instance: MASTER\_zOS\_R13\_w/Other\_Product on system LOCAL

- SMP/E Managed Data Sets
- SMP/E Managed UNIX Data Sets**
- Non-SMP/E Managed Data Sets

Actions Table view: Tree

No filter applied

Data Set Name / UNIX Directory Filter	Messages Filter	Zone Names Filter	Volumes Filter	Data Set Type Filter	RECFM Filter	LRECL Filter	BLKSIZE Filter	Tracks Filter	% Used Filter	Extents Filter
+ SMLAB01.COB32.ZFS		COB320T	SHAR04	ZFS				15		
+ SMLAB01.JAVA31V7		Z1130T	SHAR04	ZFS				5310		
+ SMLAB01.JAVA64V7		Z1130T	SHAR04	ZFS				6795		
+ SMLAB01.NETVHFS		Z1130T	SHAR04	ZFS				135		
+ SMLAB01.PLI41.ZFS		PLI410T	SHAR04	ZFS				75		
+ SMLAB01.ROOT		Z1130T	SHAR04	ZFS				49755		
+ SMLAB01.SBBN7HFS		Z1130T	SHAR04	ZFS				32280		

Total: 168

Close

**Step 4e: Export the  
“Master” Software  
Instances’ Data Set  
Information**

# Step 4e

Now you will save the data set information in a file on your workstation so that you can use spreadsheet functions to manipulate the data or print it

Click on the SMP/E Managed Data Set folder. If you still have any filters on this folder, remove them so you can see all data sets.

IBM z/OS Management Facility

Welcome x Software Manage... x

Software Management > Software Instances > View Data Sets Help

View Data Sets

Selected software instance: MASTER\_zOS\_R13\_w/Other\_Product on

SMP/E Managed Data Sets

Actions

No filter applied

Data Set Name Filter	Messages Filter	Zone Names Filter	Volumes Filter	Data Set Type Filter	RECFM Filter	LRECL Filter	BLKSIZE Filter	Tracks Filter	% Used Filter	Extents Filter
ABJ.H09F210.AABJCLST		Z1130D	SHAR02	PDS	FB	80	27920	7	100	1
ABJ.H09F210.AABJLCP		Z1130D	SHAR02	PDS	FB	80	27920	57	100	1
ABJ.H09F210.AABJMLIB		Z1130D	SHAR02	PDS	FB	80	27920	1	100	1
ABJ.H09F210.AABJMOD1		Z1130D	SHAR02	PDS	U		32760	13	100	1
ABJ.H09F210.AABJPLIB		Z1130D	SHAR02	PDS	FB	80	27920	11	100	1
ABJ.H09F210.AABJSAM1		Z1130D	SHAR02	PDS	FB	80	27920	10	100	1
ABJ.H09F210.AABJSAM2		Z1130D	SHAR02	PDS	VB	1028	27998	32	100	1
ABJ.H09F210.AABJISIR		Z1130D	SHAR02	PDS	FB	80	27920	3	100	1

Total: 1158

Close

# Step 4e

## View Data Sets

Selected software instance: MASTER\_zOS\_R13\_w/Other\_Product on system LOCAL

SMP/E Managed Data Sets SMP/E Managed UNIX Data Sets Non-SMP/E M

**Click:**  
**1. Actions, then**  
**2. Export Table Data, then**  
**3. All Data**

Actions

- Configure Columns...
- Hide Filter Row
- Clear Sorts
- Export Table Data
- Print Table Data

Messages Filter	Zon	Volumes Filter	Data Set Type Filter	RECFM Filter	LRECL Filter	BLKSIZE Filter	Tracks Filter	% Used Filter	Extents Filter
	Z1130D	SHAR02	PDS	FB	80	27920	7	100	1
ABJ.H09F210.AABJLCP	Z1130D	SHAR02	PDS	FB	80	27920	57	100	1
ABJ.H09F210.AABJMLIB	Z1130D	SHAR02	PDS	FB	80	27920	1	100	1
ABJ.H09F210.AABJMOD1	Z1130D	SHAR02	PDS	U		32760	13	100	1
ABJ.H09F210.AABJPLIB	Z1130D	SHAR02	PDS	FB	80	27920	11	100	1
ABJ.H09F210.AABJSAM1	Z1130D	SHAR02	PDS	FB	80	27920	10	100	1
ABJ.H09F210.AABJSAM2	Z1130D	SHAR02	PDS	VB	1028	27998	32	100	1
ABJ.H09F210.AABJISIR	Z1130D	SHAR02	PDS	FB	80	27920	3	100	1

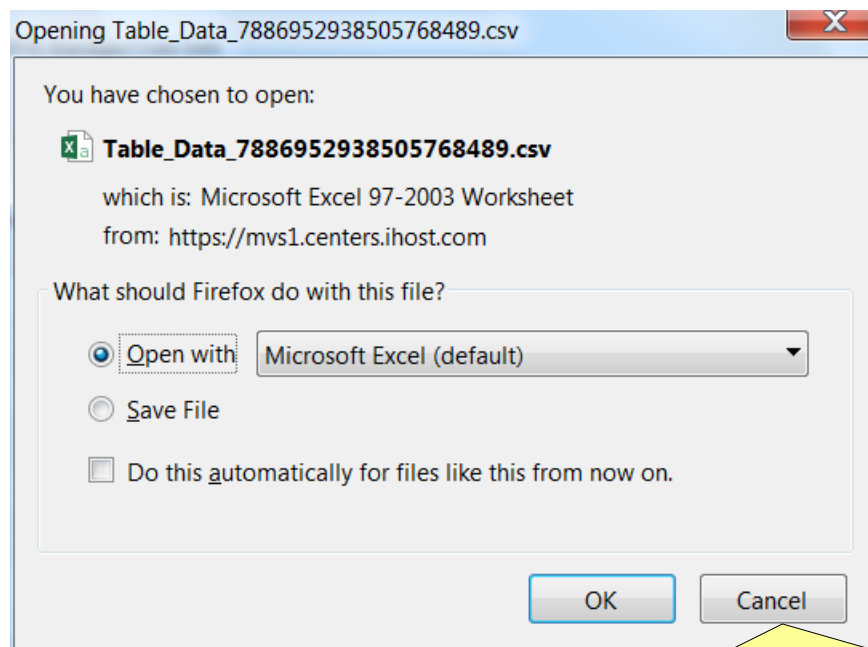
Total: 1158

Close



## Step 4e ...

**Pop-up window will allow you to save the file or open it with a program such as Microsoft Office Excel. You also have the opportunity to cancel**



**Since this is a lab, we do not want this file saved on the workstations. Click cancel. The next slide in the handout shows how the data set information would be displayed in a spread sheet.**

# Step 4e ...

Now you would be able to launch a program like Microsoft Office Excel to view or manipulate the z/OSMF “Master” Software Instances’ data set information

	A	B					
1	Data Set Name	Messages	Zone				
2	ABJ.H09F210.AABJC	Z1130D					
3	ABJ.H09F210.AABJL	Z1130D		SHAR02			
4	ABJ.H09F210.AABJM	Z1130D		SHAR02	PDS		
5	ABJ.H09F210.AABJM	Z1130D		SHAR02	PDS	U	
6	ABJ.H09F210.AABJF	Z1130D		SHAR02	PDS	FB	
7	ABJ.H09F210.AABJS	Z1130D		SHAR02	PDS	FB	
8	ABJ.H09F210.AABJS	Z1130D		SHAR02	PDS	VB	
9	ABJ.H09F210.AABJS	Z1130D		SHAR02	PDS	FB	
10	ABJ.H09F210.AABJT	Z1130D		SHAR02	PDS	FB	
11	ABJ.H09F210.SABJC	Z1130T		SHAR01	PDS	FB	
12	ABJ.H09F210.SABJL	Z1130T		SHAR01	PDS	FB	
13	ABJ.H09F210.SABJM	Z1130T		SHAR01	PDS	FB	
14	ABJ.H09F210.SABJM	Z1130T		SHAR01	PDS	U	
15	ABJ.H09F210.SABJF	Z1130T		SHAR01	PDS	FB	
16	ABJ.H09F210.SABJS	Z1130T		SHAR01	PDS	FB	
17	ABJ.H09F210.SABJS	Z1130T		SHAR01	PDS	VB	
18	ABJ.H09F210.SABJS	Z1130T		SHAR01	PDS	FB	
19	ABJ.H09F210.SABJT	Z1130T		SHAR01	PDS	FB	
20	AOP.AAOPEXEC	Z1130D		SHAR02	PDS	FB	
21	AOP.AAOPHFS	Z1130D		SHAR02	PDS	VB	
22	AOP.AAOPMENU	Z1130D		SHAR02	PDS	FB	
23	AOP.AAOPMOD1	Z1130D		SHAR02	PDS	U	
24	AOP.AAOPMENU	Z1130D		SHAR02	PDS	FB	
25	AOP.SAOPEXEC	Z1130T		SHAR01	PDS	FB	
26	AOP.SAOPMENU	Z1130T		SHAR01	PDS	FB	
27	AOP.SAOPMENU	Z1130T		SHAR01	PDS	FB	
28	ASM.AASMMAC1	Z1130D		SHAR02	PDS	FB	
29	ASM.AASMMAC2	Z1130D		SHAR02	PDS	FB	
30	ASM.AASMMOD1	Z1130D		SHAR02	PDS	U	
31	ASM.AASMMOD2	Z1130D		SHAR02	PDS	U	
32	ASM.AASMPUT2	Z1130D		SHAR02	PDS	FB	
33	ASM.AASMSAM1	Z1130D		SHAR02	PDS	FB	
34	ASM.AASMSAM2	Z1130D		SHAR02	PDS	FB	
35	ASM.SASMMAC1	Z1130T		SHAR01	PDS	FB	
36	ASM.SASMMAC2	Z1130T		SHAR01	PDS	FB	
37	ASM.SASMMOD1	Z1130T		SHAR01	PDS	U	
38	ASM.SASMMOD2	Z1130T		SHAR01	PDS	U	

# Step 4e ...

## View Data Sets

Selected software instance: MASTER\_zOS\_R13\_wOther\_Product on system LOCAL

- SMP/E Managed Data Sets
- SMP/E Managed UNIX Data Sets
- Non-SMP/E Managed Data Sets

Actions

No filter applied

Data Set Name Filter	Messages Filter	Zone Names Filter	Volumes Filter	Data Set Type Filter	RECFM Filter	LRECL Filter	BLKSIZE Filter	Tracks Filter	% Used Filter	Extents Filter
ABJ.H09F210.AABJCLST		Z1130D	SHAR02	PDS	FB	80	27920	7	100	1
ABJ.H09F210.AABJLCP		Z1130D	SHAR02	PDS	FB	80	27920	57	100	1
ABJ.H09F210.AABJMLIB		Z1130D	SHAR02	PDS	FB	80	27920	1	100	1
ABJ.H09F210.AABJMOD1		Z1130D	SHAR02	PDS	U		32760	13	100	1
ABJ.H09F210.AABJPLIB		Z1130D	SHAR02	PDS	FB	80	27920	11	100	1
ABJ.H09F210.AABJSAM1		Z1130D	SHAR02	PDS	FB	80	27920	10	100	1
ABJ.H09F210.AABJSAM2		Z1130D	SHAR02	PDS	VB	1028	27998	32	100	1
ABJ.H09F210.AABJISIR		Z1130D	SHAR02	PDS	FB	80	27920	3	100	1

Total: 1158

**Click Close**

Close

# Step 4e ...

## Software Instances

Switch To:

Actions

4 of 7 items shown. [Clear filter](#)

<input type="checkbox"/>	Name contains "master"	System Filter	Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product FMD Inf Retrieve Filter
<input type="checkbox"/>				the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product without any PTFs.					
<input type="checkbox"/>	<a href="#">MASTER_ZOSV1.12</a>	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains z/OS V1R12 at RSU1105.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TGTZ12		Aug 12, 2
<input checked="" type="checkbox"/>	<a href="#">MASTER_zOS_R13_w/Other_Produ</a>	LOCAL		z/OS V1.13 with over 20 other products to be used during the z/OSMF Software Management Lab		SMLAB01.GLOBAL.CSI	COB320T, DT910T, PLI410T, Z1130T		Aug 12, 2

Total: 4 Selected: 1

[Refresh](#) Last refresh: Oct 1, 2015, 2:45:50 PM

[Close](#)

**Click Close (again)**

**Step 5a: Report on  
“Master” Software  
Instances’ End of Service**

# Step 5a

For the first set of reports you will use all "Master" software instances

Click  to select all software instances

Welcome x Software Manage... x

Software Management > Software Instances

Software Instances

Switch To: v

Actions v

4 of 6 items shown. Clear filter

<input type="checkbox"/>	Name contains "MASTER"	System Filter	Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product, Feature, and FMID Information Retrieved (Local) Filter
<input type="checkbox"/>	MASTER_SMPEV3.6_WITH_PTFs	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFs.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP36P		Aug 15, 2013, 3:51:00 PM
<input type="checkbox"/>	MASTER_SMPEV3.6_WITHOUT_PTFs	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product without any PTFs.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP36		Aug 10, 2013, 7:28:52 PM
<input type="checkbox"/>	MASTER_ZOSV1.12	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains z/OS V1R12 at RSU1105.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TGTZ12		Aug 12, 2013, 3:56:18 PM
<input type="checkbox"/>	MASTER_zOS_R13_w/Other_Product	LOCAL		z/OS V1.13 with over 20 other products to be used during the z/OSMF Software Management Lab		SMLAB01.GLOBAL.CSI	COB320T, DT910T, PLI410T, Z1130T		Aug 12, 2013, 3:45:56 PM

Total: 4 Selected: 0

Refresh Last refresh: Oct 1, 2015, 11:08:35 AM

Close

# Step 5

Prepare to be WOWed!!!

IBM z/OS Management Facility

IBM

Welcome x Software Manage... x  
Software Management ▶ Software Instances  
Software Instances

Click Actions, Maintenance Reports, then End of Service

Switch To: ▼

Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product, Feature, and FMID Information Retrieved (Local) Filter
	Software Instance for DSMF Software Management Lab. This instance has the SMP/E V3.6 product and any PTFs.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSM36P		Aug 15, 2013, 3:51:00 PM
	Software Instance for DSMF Software Management Lab. This instance has the SMP/E V3.6 product and any PTFs.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSM36		Aug 10, 2013, 7:28:52 PM

Actions

- View
- Modify
- Open Deployments
- Copy...
- Remove...
- Retrieve Product, Feature, and FMID Information
- Maintenance Reports**
  - End of Service**
  - Software Instance Validation
  - Missing Critical Service
  - Missing FIXCAT SYSMODs
  - SYSMOD Search
  - Software Instance Comparison...
- Add...
- Show Hidden Maintenance Reports
- Select All
- Deselect All
- Configure Columns...

You can generate reports about the selected software instances. The End of Service report helps you determine if any of the products contained in your software instances are approaching or have reached their announced end of service support date.

This action:

- Will display additional information, not available through batch SMP/E
- Can be performed against multiple software instances at the same time
- Can be performed against software instances throughout your enterprise

The display shows any product that was in a selected software instance with information about the product's general availability and end of service. A year ago there were products approaching their end of service dates. This page is from a previous level of Software Management.

Software Management > Software Instances > Maintenance Reports

### Maintenance Reports

End of Service x

Timeline View Legend

Timeline visualization showing months from 2012 to 2015. A red circle highlights the period from late 2013 to early 2014, where several products are shown with yellow warning icons.

Retrieve End of Service Information...

Software Instances by Product

Actions | Table view: Tree

Product / Software Instance <small>Filter</small>	Release <small>Filter</small>	Product ID <small>Filter</small>	Messages <small>Filter</small>	Vendor <small>Filter</small>	General Availability <small>Filter</small>	End of Service <small>Filter</small>	Additional Product Information <small>Filter</small>	Product Information <small>File Version Filter</small>
<input type="checkbox"/> System Modification Program Extended for z/OS	03.06.00	5655-G44		IBM	Sep 30, 2011	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5655-G44">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5655-G44</a>	Oct 17, 2013
<input type="checkbox"/> z/OS	01.12.00	5694-A01		IBM	Sep 24, 2010	<input type="checkbox"/> Sep 30, 2014	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5694-A01">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5694-A01</a>	Oct 17, 2013
<input type="checkbox"/> Enterprise COBOL for z/OS and OS/390	03.02.00	5655-G53		IBM	Sep 27, 2002	<input checked="" type="checkbox"/> Oct 3, 2005	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5655-G53">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5655-G53</a>	Oct 17, 2013
<input type="checkbox"/> Debug Tool V9	09.01.00	5655-U27		IBM	Sep 26, 2008	<input checked="" type="checkbox"/> Apr 30, 2012	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5655-U27">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5655-U27</a>	Oct 17, 2013

Total: 55, Selected: 0

Refresh Close

**Note: Products were added to this software instance to show products that have already passed or are approaching their end of service date**



The display shows any product that was in a selected software instance with information about the product's general availability and end of service. Now the end of service dates for all products has passed.

Click View Legend

The screenshot displays the 'Maintenance Reports' section in a software management application. At the top, there is a breadcrumb trail: 'Software Management > Software Instances > Maintenance Reports'. Below this, the 'End of Service' filter is active. A 'Timeline' view shows months from September 2015 to October 2016. A red oval highlights the timeline, with a yellow callout box pointing to the 'View Legend' link. Below the timeline is a 'Retrieve End of Service Information' button. The main section is 'Software Instances by Product', which includes a table with columns for Product / Software Instance, Release, Product ID, Messages, Vendor, General Availability, End of Service, and Additional Product Information. The table lists two instances: 'System Modification Program Extended for z/OS' and 'z/OS'. A yellow banner at the bottom contains a note.

Product / Software Instance	Release	Product ID	Messages	Vendor	General Availability	End of Service	Additional Product Information
System Modification Program Extended for z/OS	03.06.00	5655-G44		IBM	Sep 30, 2011	Not Announced	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apiname=ShopzSeries&amp;htmlfid=897/EN">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apiname=ShopzSeries&amp;htmlfid=897/EN</a>
z/OS	01.12.00	5694-A01		IBM	Sep 24, 2010	Sep 30, 2014	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apiname=ShopzSeries&amp;htmlfid=897/EN">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apiname=ShopzSeries&amp;htmlfid=897/EN</a>

**Note: Products were added to this software instance to show products that have already passed or are approaching their end of service date**








Notice that the scrollable timeline has icons and that any product that has an announced End of Service date has an icon. The table below shows all products.

Icons represented in timeline

Legend to describe calendar colors and icons

View Legend

Timeline Legend

Key	Description
	End of service date passed
	End of service date within six months
	End of service date more than six months away
	Past months
	Current month
	Near future months
	Distant future months

After reviewing the Legend, click Close to close the pop up window

Welcome x Software Manage... x

Software Management > Software In  
Maintenance Reports

Help

Hover over an icon and view the flyover help that is available to view product information

End of Service x

Timeline

View Legend

Timeline chart showing months from May to July. A flyover tooltip is displayed over the September icon, providing details for z/OS:

- Product: z/OS
- End of service: Sep 30, 2014
- Release: 01.12.00
- Product ID: 5694-A01
- Vendor: IBM
- Announcement: <http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&subtype=sm&appname=ShopzSeries&htmlfid=897/ENUS5694-A01>

Retrieve End of Service Information...

Software Instances by Product

Actions Table view: Tree

No filter applied

Product / Software Instance Filter	Product ID Filter	Messages Filter	Vendor Filter	General Availability Filter	End of Service Filter	Additional Product Information Filter
<input type="checkbox"/> System Modification Program Extended for z/OS	5655-G44		IBM	Sep 30, 2011	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5655-G44">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5655-G44</a>
<input checked="" type="checkbox"/> z/OS	5694-A01		IBM	Sep 24, 2010	<input checked="" type="checkbox"/> Sep 30, 2014	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5694-A01">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5694-A01</a>

Total: 55 Selected: 2

Refresh

Last refresh: Oct 1 2015 11:29:55 AM

Close

Hide

Welcome x Software Manage... x

Software Management > Software Instances > Maintenance Reports

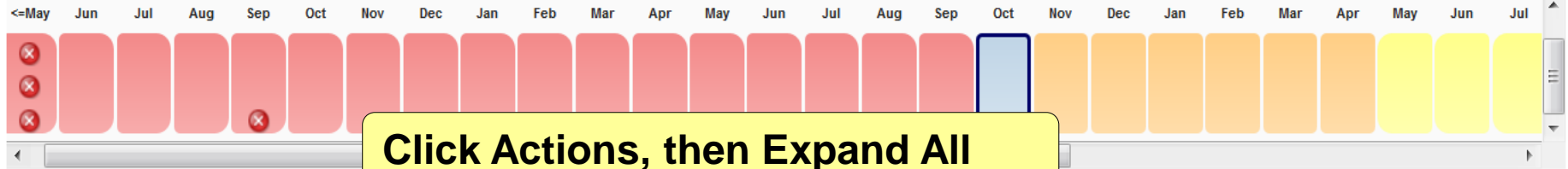
Help

### Maintenance Reports

End of Service x

Timeline

View Legend



**Click Actions, then Expand All**

Retrieve End of Service Information...

Software Instances by Product

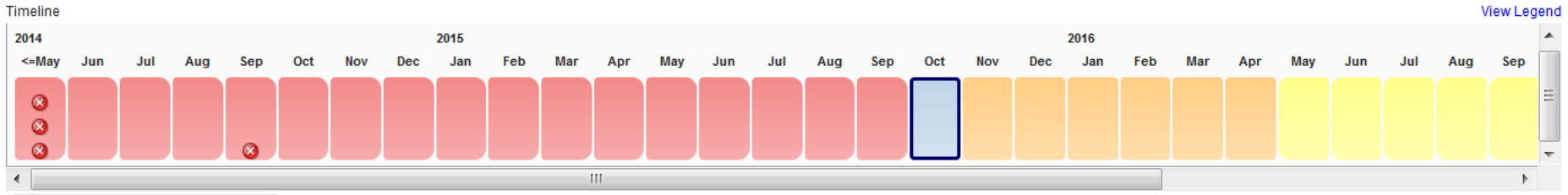
Actions Table view: Tree

- View
- Retrieve Product, Feature, and FMID Information
- Maintenance Reports
- Expand
- Collapse
- Retrieve End of Service Information...
- Select All
- Deselect All
- Configure Columns...
- Hide Filter Row
- Clear Sorts
- Export Table Data
- Print Table Data
- Expand All**
- Collapse All

	Messages Filter	Vendor Filter	General Availability Filter	End of Service Filter	Additional Product Information Filter
5655-G44		IBM	Sep 30, 2011	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5655-G44">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5655-G44</a>
5694-A01		IBM	Sep 24, 2010	<input checked="" type="checkbox"/> Sep 30, 2014	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5694-A01">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5694-A01</a>

You can see all the software instances where SMP/E (and all the other products) is installed.

End of Service x



Retrieve End of Service Information...

Software Instances by Product

Actions Table view: Tree

No filter applied

Product / Software Instance Filter	Release Filter	Product ID Filter	Messages Filter	Vendor Filter	General Availability Filter	End of Service Filter	Additional Product Information Filter
<input type="checkbox"/> System Modification Program Extended for z/OS	03.06.00						
<input type="checkbox"/> z/OS	01.12.00						
<input type="checkbox"/> Enterprise COBOL for z/OS and OS/390	03.02.00						

Optionally, you can change the filter to only show the products with an announced end of service date

Total: 55 Selected: 0

Refresh

Last refresh: Oct 1, 2015, 11:29:55 AM

Close

Hide

When you are done with the End of Service report, click Close

**Step 5b: Report on  
“Master” Software  
Instances’  
SYSMOD Search**

Now you will perform a Cross Zone Query on steroids!!!!

## Step 5b

IBM z/OS Management Facility

Welcome shara11

Software Management

Software Instances

Click Actions, Maintenance Reports, then SYSMOD Search

Messages Filter	Description Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product, Feature, and FMID Information Retrieved (Local) Filter	Last Mod Filter
	Source Software	ZOSMF.SWDEPLOY.GLOBAL.CSI	TSM36P		Aug 15, 2013, 3:51:00 PM	Jun 29, 20
	Instance for	ZOSMF.SWDEPLOY.GLOBAL.CSI	TSM36		Aug 10, 2013, 7:28:52 PM	Jun 29, 20

The SYSMOD Search capability helps you determine if your software instances contain the SYSMODs in which you are interested. This could be to determine:

- If you already installed the fix that a vendor suggested that you install,
- If you already installed a Red Alert or fix associated with security/integrity APAR
- How many software instances are affected by a specific PTF that went PE

While similar to cross zone query, this action can be performed:

- For multiple SYSMODs at the same time
- Against multiple software instances at the same time
- Against software instances throughout your enterprise

# Step 5b ...

## Maintenance Reports

### SYSMOD Search x

Use this page to search the selected software instances for SYSMODs.

\* SYSMOD search list:

uo01270, uo01281

Search

Specify UO01270 and UO01281 in the SYSMOD search list

Then click Search

### Search Results

Actions Table view: Tree

No filter applied

Software Instance / Zone Name / SYSMOD Filter	System Filter	Type Filter	F MID Filter	Status Filter	Installed Filter
---	---------------	-------------	--------------	---------------	------------------

There is no data to display.

You need to specify the SYSMODs for which to search. You can search for multiple SYSMODs simultaneously. To do so, use a comma, space, or line break to separate each SYSMOD ID. At least one SYSMOD ID is required.

Total: 0 Selected: 0

Close Hide



# Step 5b ...

Welcome x Software Manage... x

Software Management > Software Instances > Maintenance Reports

Help

## Maintenance Reports

SYSMOD Search x

Use this page to search the selected software instances for one or more SYSMODS.

SYSMOD search list

U001270, U001281

Search

Search Results

Actions Table view: Tree

No filter applied

Software Instance / Zone Name / SYSMOD Filter	System Filter	Type Filter	F MID Filter	Status Filter	Installed Filter
---	---------------	-------------	--------------	---------------	------------------

Searching for the SYSMODS in the selected software instances. This request might take several minutes to complete.

Cancel

**Pop-up window to alert you that this might take a few minutes, and allow you to cancel, just let it complete**

Total: 0 Selected: 0

Close

Hide

Results shown in a scrollable tree table. You will have to expand each row to see the actual results.

### Maintenance Reports

SYSMOD Search x

Use this page to search the selected software instances for one or more SYSMODs.

\* SYSMOD search list

U001270, U001281

Search

#### Search Results

Actions Table view: Tree

No filter applied

<input type="checkbox"/>	Software Instance / Zone Name / SYSMOD Filter	System Filter	Type Filter	F MID Filter	Status Filter	Installed Filter
<input type="checkbox"/>	+ MASTER_SMPEV3.6_WITH_PTFS	LOCAL				
<input type="checkbox"/>	+ MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL				
<input type="checkbox"/>	+ MASTER_ZOSV1.12	LOCAL				
<input type="checkbox"/>	+ MASTER_ZOS_R13_w/Other_Product	LOCAL				

Total: 55 Selected: 0

Close

Hide

# Step 5b ...

## Maintenance Reports

SYSMOD Search x

Use this page to search the selected software instances for one or more SYSMODs.

\* SYSMOD search list:

U001270, U001281

Click Actions, then Expand All

Search Results

- Actions
- Table view: Tree
- View
- Maintenance Reports
- Expand
- Collapse
- Select All
- Deselect All
- Configure Columns...
- Hide Filter Row
- Clear Sorts
- Export Table Data
- Print Table Data
- Expand All**
- Collapse All
- Switch to Non-Tree View

SYSMOD	Type Filter	FMID Filter	Status Filter	Installed Filter
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...

Total: 55 Selected: 0

Close

Hide

In one request, you queried 4 software instances using 2 different GLOBAL zones for 2 SYSMODs. This simple query would take at least 4 user interactions using SMP/E's cross zone query.

Software Management > Software Instances > Maintenance Reports

### Maintenance Reports

SYSMOD Search ×

Use this page to search the selected software instances for one or more SYSMODs.

\* SYSMOD search list:

U001270, U001281

Search

#### Search Results

Actions ▾ Table view: Tree

↕ No filter applied

<input type="checkbox"/>	Software Instance / Zone Name / SYSMOD Filter	System Filter	Type Filter	F MID Filter	Status Filter	Installed Filter
<input type="checkbox"/>	<span>▢</span> MASTER_SMPEV3.6_WITH_PTFS	LOCAL				
<input type="checkbox"/>	<span>▢</span> DSMP36P					
<input type="checkbox"/>	U001270				Superceded by U001301	
<input type="checkbox"/>	U001281		PTF	HMP1J00	Accepted	January 3, 2012 'at' 14:09:28
<input type="checkbox"/>	<span>▢</span> GLOBAL					
<input type="checkbox"/>	U001270		PTF	HBCNC00	Received	January 16, 2012 'at' 15:23:34
<input type="checkbox"/>	U001281		PTF	HMP1J00	Received	January 16, 2012 'at' 15:23:38
<input type="checkbox"/>	<span>▢</span> TSMP36P					
<input type="checkbox"/>	U001270				Superceded by U001301	

Total: 55 Selected: 0

Close

Hide

# Step 5b ...

Welcome x Software Manage... x

Software Management > Software Instances > Maintenance Reports

## Maintenance Reports

SYSMOD Search x

Use this page to search the selected software instances.

\* SYSMOD search list:

U001270, U001281

Search

Search Results

Actions Table view: Tree

- View
- Maintenance Reports
- Expand
- Collapse
- Select All
- Deselect All
- Configure Columns...
- Hide Filter Row
- Clear Sorts
- Export Table Data
- Print Table Data
- Expand All
- Collapse All**
- Switch to Non-Tree View

Click Actions, then Collapse All

	Type Filter	F MID Filter	Status Filter	Installed Filter
			Superseded by U001301	
	PTF	HMP1J00	Accepted	January 3, 2012 'at' 14:09:28
	PTF	HBCNC00	Received	January 16, 2012 'at' 15:23:34
	PTF	HMP1J00	Received	January 16, 2012 'at' 15:23:38
			ceded by 301	

Then click Close

Total: 55 Selected: 0

Close

Hide

**Step 5c: Report on  
“Master” Software  
Instances’ Missing  
FIXCAT SYSMODs**

# Step 5c

## Software Instances

Click  to select all software instances

Switch To: ▾

Actions ▾

4 of 6 items shown. Clear filter

<input checked="" type="checkbox"/>	Name contains "MASTER"	System Filter	Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product, Feature, and FMID Information Retrieved (Local) Filter	Last Mod Filter
<input checked="" type="checkbox"/>	MASTER_SMPEV3.6_WITH_PTFs	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFs.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSM36P		Aug 15, 2013, 3:51:00 PM	Jun 29, 20
<input checked="" type="checkbox"/>	MASTER_SMPEV3.6_WITHOUT_PTFs	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product without any PTFs.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSM36		Aug 10, 2013, 7:28:52 PM	Jun 29, 20
<input checked="" type="checkbox"/>	MASTER_ZOSV1.12	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains z/OS V1R12 at RSU1105.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TGTZ12		Aug 12, 2013, 3:56:18 PM	Jun 29, 20
<input checked="" type="checkbox"/>	MASTER_zOS_R13_wOther_Product	LOCAL		z/OS V1.13 with over 20 other products to be used during the z/OSMF Software Management Lab		SMLAB01.GLOBAL.CSI	COB320T, DT910T, PL410T, Z1130T		Aug 12, 2013, 3:45:56 PM	Jan 9, 201

Total: 4 Selected: 4

Refresh

Last refresh: Oct 1, 2015, 11:08:35 AM

Close

# Next you will look for missing fixes associated with one or more SMP/E Fix Categories.

The screenshot shows the IBM z/OS Management Facility interface. The 'Software Instances' table is visible with columns for Messages Filter, Description Filter, Global Zone CSI Filter, Target Zones Filter, Categories Filter, Product, Feature, and FMID Information Retrieved (Local) Filter, and Last Mod Filter. A yellow callout box points to the 'Missing FIXCAT SYSMODs' option in the 'Maintenance Reports' dropdown menu. Another yellow callout box at the bottom explains the purpose of this report.

**Click Actions, Maintenance Reports, then Missing FIXCAT SYSMODs**

The Missing FIXCAT SYSMODs reports helps you identify any unsatisfied hardware or software requisites that are required for a specific category of software fixes.

While similar to REPORT MISSINGFIX, this action:

- Can be performed against multiple software instances at the same time
- Can be performed against software instances throughout your enterprise



# Step 5c ...

IBM z/OS Management Facility Welcome shara11 ?

Welcome x Software Manage... x

Software Management > Software Instances Help

### Software Instances

Switch To: ▾

Actions ▾

4 of 6 items shown. Clear filter

<input checked="" type="checkbox"/>	Name contains "MASTER"	System Filter	Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product, Feature, and FMID Information Retrieved (Local) Filter	Last Mod Filter
<input checked="" type="checkbox"/>	MASTER_SMPEV3.6_WITH_PTFS	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFS.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP36P		Aug 15, 2013, 3:51:00 PM	Jun 29, 20
<input checked="" type="checkbox"/>	MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL		Source Software Instance for the z/OSMF Software		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP36		Aug 10, 2013, 7:28:52 PM	Jun 29, 20
<input checked="" type="checkbox"/>	MASTER_ZOSV1.12	LOCAL		Deployment Lab. This instance contains z/OS V1R12 at RSU1105.					Aug 12, 2013, 3:56:18 PM	Jun 29, 20
<input checked="" type="checkbox"/>	MASTER_ZOS_R13_w/Other_Product	LOCAL		z/OS V1.13 with over 20 products to be used during z/OSMF Software Mana Lab						

Retrieving the missing FIXCAT SYSMODS information for the selected software instances. This request might take several minutes to complete.

Pop-up window to alert you that this might take a few minutes, and allow you to cancel, just let it complete

Total: 4 Selected: 4

Last refresh: Oct 1, 2015, 11:08:35 AM

# Step 5c ...

Results shown in a scrollable tree table. You will have to expand each row to see the actual results.

IBM z/OS Management Center

Software Management > Software Instances > Maintenance Reports

### Maintenance Reports

Missing FIXCAT SYSMODs x

Review the list of fix categories and determine which APARs are critical for your installation. Use SMP/E to apply the resolving SYSMODs to the corresponding target zone.

Actions | Table view: Tree

No filter applied

<input type="checkbox"/>	Software Instance / Fix Category / FMID / Missing APAR Filter	System Filter	HOLDDATA Received (GMT) Filter	Target Zones Filter	Resolving SYSMODs Received in Global Zone Filter	Resolving SYSMODs Not in Global Zone Filter	FMID Description Filter
<input type="checkbox"/>	+ MASTER_SMPEV3.6_WITH_PTFS	LOCAL	January 16, 2012 'at' 15:38:30				
<input type="checkbox"/>	+ MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL	January 16, 2012 'at' 15:38:30				
<input type="checkbox"/>	+ MASTER_ZOSV1.12	LOCAL	January 16, 2012 'at' 15:38:30				
<input type="checkbox"/>	+ MASTER_zOS_R13_w/Other_Product	LOCAL	September 28, 2012 'at' 11:33:57				

Total: 556 Selected: 0

Refresh Last refresh: Oct 1, 2015, 3:22:24 PM

Close Hide

# Step 5c ...

## Maintenance Reports

### Missing FIXCAT SYSMODs x

Review the list of fix categories and determine which APARs are critical for your installation. Use SMP/E to apply the resolving SYSMODs to the corresponding target zone.

Actions Table view: Tree

- View
- Maintenance Reports
- Expand
- Collapse
- Select All
- Deselect All
- Configure Columns...
- Hide Filter Row
- Clear Sorts
- Export Table Data
- Print Table Data
- Expand All**
- Collapse All
- Switch to Non-Tree View

Category / FMID / Missing APAR	Resolving SYSMODs not in Global Zone Filter	FMID Description Filter
LOCAL	January 16, 2012 'at' 15:38:30	
LOCAL	January 16, 2012 'at' 15:38:30	
LOCAL	January 16, 2012 'at' 15:38:30	
LOCAL	September 28, 2012 'at' 11:33:57	

**Click Actions, then Expand All**

Total: 556 Selected: 0

**Refresh** Last refresh: Oct 1, 2015, 3:22:24 PM

**Close** **Hide**

# Step 5c

Similar to REPORT MISSINGFIX Output displayed in tree table format

## Maintenance Reports

Missing FIXCAT SYSMODS x

Review the list of fix categories and determine which APARs are critical for your installation. Use SMP/E to apply the resolving SYSMODs to the corresponding target zone.

Actions | Table view: Tree

No filter applied

<input type="checkbox"/>	Software Instance / Fix Category / FIMD / Missing APAR Filter	System Filter	HOLDDATA Received (GMT) Filter	Target Zones Filter	Resolving SYSMODs Received in Global Zone Filter	Resolving SYSMODs Not in Global Zone Filter	FIMD Descript Filter
<input type="checkbox"/>	MASTER_SMPEV3.6_WITH_PTFS	LOCAL	January 16, 2012 'at' 15:38:30				
<input type="checkbox"/>	IBM.Coexistence.z/OS.V1R11						
<input type="checkbox"/>	HMP1J00						SMP/E Base
<input type="checkbox"/>	AACOEX1			TSM36P		UACOEX2	
<input type="checkbox"/>	IBM.Coexistence.z/OS.V1R12						
<input type="checkbox"/>	HMP1J00						SMP/E Base
<input type="checkbox"/>	AACOEX1			TSM36P		UACOEX2	
<input type="checkbox"/>	IBM.Coexistence.z/OS.V1R13						
<input type="checkbox"/>	HMP1J00						SMP/E Base
<input type="checkbox"/>	AACOEX1			TSM36P		UACOEX2	
<input type="checkbox"/>	IBM.Device.Server.z114-2818						

Total: 556 Selected: 0

Refresh

Last refresh: Oct 1, 2015, 3:22:24 PM

Close

Hide

# Step 5c ...

## Maintenance Reports

**Click Actions, then Collapse All**

### Missing FIXCAT SYSMODs

Review the list of fix categories and determine which APARs are critical for your installation. Use SMP/E to apply the ... depending target zone.

- Actions
- Table view: Tree
- View
- Maintenance Reports
- Expand
- Collapse
- Select All
- Deselect All
- Configure Columns...
- Hide Filter Row
- Clear Sorts
- Export Table Data
- Print Table Data
- Expand All
- Collapse All**
- Switch to Non-Tree View

System Filter	HOLDDATA Received (GMT) Filter	Target Zones Filter	Resolving SYSMODs Received in Global Zone Filter	Resolving SYSMODs Not in Global Zone Filter	FMID Descript Filter
LOCAL	January 16, 2012 'at' 15:38:30				
		TSMP36P		UACOEX2	SMP/E Base
		TSMP36P		UACOEX2	SMP/E Base
		TSMP36P		UACOEX2	SMP/E Base

**Then click Close**

Total: 556 Selected: 0

Refresh

Last refresh: Oct 1, 2015, 3:22:24 PM

Close

Hide

**Step 5d: Report on  
“Master” Software  
Instances’ Missing  
Critical Fixes**

# Step 5d

## Software Instances

Click  to select all software instances

Switch To: ▾

Actions ▾

4 of 7 items shown. Clear filter

<input type="checkbox"/>	Name	System Filter	Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product, Feature, and FMID Information Retrieved (Local) Filter	Last Mod Filter
<input type="checkbox"/>	contains "MASTER"									
<input type="checkbox"/>	<a href="#">MASTER_SMP3.6_WITH_PTFs</a>	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFs.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP36P		Aug 15, 2013, 3:51:00 PM	Jun 29, 20
<input type="checkbox"/>	<a href="#">MASTER_SMP3.6_WITHOUT_PTFs</a>	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product without any PTFs.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP36		Aug 10, 2013, 7:28:52 PM	Jun 29, 20
<input type="checkbox"/>	<a href="#">MASTER_ZOSV1.12</a>	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains z/OS V1R12 at RSU1105.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TGTZ12		Aug 12, 2013, 3:56:18 PM	Jun 29, 20
<input type="checkbox"/>	<a href="#">MASTER_zOS_R13_w/Other_Product</a>	LOCAL		z/OS V1.13 with over 20 other products to be used during the z/OSMF Software Management Lab		SMLAB01.GLOBAL.CSI	COB320T, DT910T, PL410T, Z1130T		Aug 12, 2013, 3:45:56 PM	Jan 9, 201

Total: 4 Selected: 0

Refresh

Last refresh: Oct 1, 2015, 3:30:11 PM

Close

# Step 5d ...

IBM z/OS Management Facility

Welcome shara11

Welcome x Software Manage... x

Software Management > Software Instances

### Software Instances

Actions

- View
- Modify
- Open Deployments
- Copy...
- Remove...
- Retrieve Product, Feature, and FMID Information
- Maintenance Reports**
- Add...
- Show Hidden Maintenance Reports
- Select All
- Deselect All
- Configure Columns...
- Hide Filter Row
- Clear Sorts
- Export Table Data
- Print Table

Messages Filter

Description Filter

Global Zone CSI Filter

Target Zones Filter

Categories Filter

Product, Feature, and FMID Information Retrieved (Local) Filter

Last Mod Filter

Messages Filter	Description Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product, Feature, and FMID Information Retrieved (Local) Filter	Last Mod Filter
	Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains z/OS V1R12 at 08/11/2013 3:56:18 PM.	ZOSMF.SWDEPLOY.GLOBAL.CSI	TSM36P		Aug 15, 2013, 3:51:00 PM	Jun 29, 2013
	End of Service					
	Software Instance Validation					
	<b>Missing Critical Service</b>					
	Missing FIXCAT SYSMODs	ZOSMF.SWDEPLOY.GLOBAL.CSI	TSM36		Aug 10, 2013, 7:28:52 PM	Jun 29, 2013
	SYSMOD Search					
	Software Instance Comparison...					
	Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains z/OS V1R12 at 08/11/2013 3:56:18 PM.	ZOSMF.SWDEPLOY.GLOBAL.CSI	TGTZ12		Aug 12, 2013, 3:56:18 PM	Jun 29, 2013

Total: 4 Selected

Refresh

Close

**Click Actions, Maintenance Reports, then Missing Critical Service**

The Missing Critical Fix report helps you determine if any unresolved PE PTFs, HIPERs, or other exception SYSMODs identified by ERROR HOLDDATA are contained in your software instances, and helps you identify the SYSMODs that will resolve those exceptions.

While similar to REPORT ERRSYSMODS, this action:

- Can be performed against multiple software instances at the same time
- Can be performed against software instances throughout your enterprise



# Step 5d ...

IBM z/OS Management Facility Welcome shara11

Welcome x Software Manage... x

Software Management > Software Instances Help

### Software Instances

Switch To: ▾

Actions ▾

4 of 7 items shown. Clear filter

<input checked="" type="checkbox"/>	Name contains "MASTER"	System Filter	Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product, Feature, and FMID Information Retrieved (Local) Filter	Last Mod Filter
<input checked="" type="checkbox"/>	MASTER_SMPEV3.6_WITH_PTFS	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFs.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP36P		Aug 15, 2013, 3:51:00 PM	Jun 29, 20
<input checked="" type="checkbox"/>	MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL		Source Software Instance for the z/OSMF Software		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP36		Aug 10, 2013, 7:28:52 PM	Jun 29, 20
<input checked="" type="checkbox"/>	MASTER_ZOSV1.12	LOCAL		Deployment Lab. This instance contains z/OS V1R12 at RSU1105.					Aug 12, 2013, 3:56:18 PM	Jun 29, 20
<input checked="" type="checkbox"/>	MASTER_zOS_R13_wOther_Product	LOCAL		z/OS V1.13 with over 20 other products to be used during z/OSMF Software Manag Lab						

Retrieving the missing Critical Service information for the selected software instances. This request might take several minutes to complete.

**Pop-up window to alert you that this might take a few minutes, and allow you to cancel, just let it complete**

Total: 4 Selected: 4

Last refresh: Oct 1, 2015, 3:30:11 PM

# Step 5d ...

Results shown in a scrollable tree table. You will have to expand each row to see the actual results.

## Maintenance Reports

Missing Critical Service x

Review the list of critical service and determine which service are critical for your installation. Use SMP/E to apply the resolving service to the corresponding target zone.

Actions | Table view: Tree

↕ No filter applied

<input type="checkbox"/>	Software Instance / FMID / Held SYSMOD / Missing APAR Filter	System Filter	HOLDDATA Received (GMT) Filter	Target Zones Filter	Resolving SYSMODs Received in Global Zone Filter	Resolving SYSMODs Not in Global Zone Filter	Hold Class Filter	Hold Symptom Filter	FMID Description Filter
<input type="checkbox"/>	+ MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL	January 16, 2012 'at' 15:23:46						
<input type="checkbox"/>	+ MASTER_ZOSV1.12	LOCAL	January 16, 2012 'at' 15:23:46						
<input type="checkbox"/>	+ MASTER_ZOS_R13_w/Other_Product	LOCAL	September 28, 2012 'at' 11:33:57						

Total: 149 Selected: 0

Refresh

Last refresh: Oct 1, 2015, 3:32:37 PM

Close

Hide

# Step 5d ...

**Click Actions, then Expand All**

## Maintenance Reports

Missing Critical Service x

Review the list of critical service and determine which service are critical for your installation. Use SMP/E to update the service to the corresponding target zone.

Actions ▾ Table view: Tree

- View
- Maintenance Reports
- Expand
- Collapse
- Select All
- Deselect All
- Configure Columns...
- Hide Filter Row
- Clear Sorts
- Export Table Data
- Print Table Data
- Expand All**
- Collapse All
- Switch to Non-Tree View

SYSMOD / Missing	System Filter	Received	Target Zones Filter	Resolving SYSMODs Received in Global Zone Filter	Resolving SYSMODs Not in Global Zone Filter	Hold Class Filter	Hold Symptom Filter	FMD Description Filter
PTFS	LOCAL	January 16, 2012 'at' 15:23:46						
	LOCAL	January 16, 2012 'at' 15:23:46						
Product	LOCAL	September 28, 2012 'at' 11:33:57						

Total: 149 Selected: 0

**Refresh** Last refresh: Oct 1, 2015, 3:32:37 PM

**Close** **Hide**

# Step 5d

Similar to REPORT ERRSYSMODS Output displayed in tree table format

## Maintenance Reports

Missing Critical Service x

Review the list of critical service and determine which service are critical for your installation. Use SMP/E to apply the resolving service to the corresponding target zone.

Actions Table view: Tree

No filter applied

<input type="checkbox"/>	Software Instance / FIMD / Held SYSMOD / Missing APAR Filter	System Filter	HOLDDATA Received (GMT) Filter	Target Zones Filter	Resolving SYSMODs Received in Global Zone Filter	Resolving SYSMODs Not in Global Zone Filter	Hold Class Filter	Hold Symptom Filter	FIMD Description Filter
<input type="checkbox"/>	MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL	January 16, 2012 'at' 15:23:46						
<input type="checkbox"/>	HMP1J00								SMP/E Base
<input type="checkbox"/>	HMP1J00								
<input type="checkbox"/>	AO14750			TSM36	U001286		HIPER	DAL	
<input type="checkbox"/>	MASTER_ZOSV1.12	LOCAL	January 16, 2012 'at' 15:23:46						
<input type="checkbox"/>	HBB7770								BCP Base
<input type="checkbox"/>	HBB7770								
<input type="checkbox"/>	AA37192			TGTZ12		UA63547	HIPER	FUL	
<input type="checkbox"/>	AA37848			TGTZ12		UA63539	HIPER	PRF	
<input type="checkbox"/>	AA37905			TGTZ12		UA63624	HIPER	FUL	
<input type="checkbox"/>	AA38065			TGTZ12		UA63517	HIPER	FUL	

Total: 149 Selected: 0

Refresh Last refresh: Oct 1, 2015, 3:32:37 PM

Close Hide

# Step 5d

Now you are going to change the view and add a filter to identify missing HIPERs

Welcome x Software Manage... x

Software Management > Software Instances > Maintenance Reports Help

### Maintenance Reports

Missing Critical Service x

Review the list of critical service and determine which service are critical for your installation. Use SMP/E to apply the resolving service to the corresponding target zone.

Actions Table view: Tree

- View
- Maintenance Reports
- Expand
- Collapse
- Select All
- Deselect All
- Configure Columns...
- Hide Filter Row
- Clear Sorts
- Export Table Data
- Print Table Data
- Expand All
- Collapse All
- Switch to Non-Tree View**

SYSMOD / Missing	System Filter	HOLDDATA Received (GMT) Filter	Target Zone Filter	Resolving SYSMODs Not in Global Zone Filter	Hold Class Filter	Hold Symptom Filter	FMD Description Filter
PTFS	LOCAL	January 16, 2012 'at' 15:23:46					SMP/E Base
			TSMP36	U001286	HIPER	DAL	
	LOCAL	January 16, 2012 'at' 15:23:46					BCP Base
<input type="checkbox"/> HBB7770							
<input type="checkbox"/> AA37192			TGTZ12	UA63547	HIPER	FUL	
<input type="checkbox"/> AA37848			TGTZ12	UA63539	HIPER	PRF	
<input type="checkbox"/> AA37905			TGTZ12	UA63624	HIPER	FUL	
<input type="checkbox"/> AA38065			TGTZ12	UA63517	HIPER	FUL	

Total: 149 Selected: 0

Last refresh: Oct 1, 2015, 3:32:37 PM

Click Actions, then Switch to Non-Tree View

# Step 5d ...

**Click on the filter in the Hold Class column**

## Maintenance Reports

Missing Critical Service x

Review the list of critical service and determine which service are critical for your installation. Use SMP/E to apply the resolving service to the corresponding target zone.

Actions Table view: Non-tree

No filter applied

<input type="checkbox"/>	Software Instance / FMID / Held SYSMOD / Missing APAR Filter	System Filter	HOLDDATA Received (GMT) Filter	Target Zones Filter	Resolving SYSMODs Received in Global Zone Filter	Resolving SYSMODs Not in Global Zone Filter	Hold Filter	Hold Symptom Filter	FMID Description Filter
<input type="checkbox"/>	MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL	January 16, 2012 'at' 15:23:46						
<input type="checkbox"/>	MASTER_SMPEV3.6_WITHOUT_PTFS > HMP1J00								SMP/E Base
<input type="checkbox"/>	MASTER_SMPEV3.6_WITHOUT_PTFS > HMP1J00 > HMP1J00								
<input type="checkbox"/>	MASTER_SMPEV3.6_WITHOUT_PTFS > HMP1J00 > HMP1J00 > AO14750			TSM36	U001286		HIPER	DAL	
<input type="checkbox"/>	MASTER_ZOSV1.12	LOCAL	January 16, 2012 'at' 15:23:46						
<input type="checkbox"/>	MASTER_ZOSV1.12 > HBB7770								BCP Base
<input type="checkbox"/>	MASTER_ZOSV1.12 > HBB7770 > HBB7770								
<input type="checkbox"/>	MASTER_ZOSV1.12 > HBB7770 > HBB7770 > AA37192			TGTZ12		UA63547	HIPER	FUL	
<input type="checkbox"/>	MASTER_ZOSV1.12 > HBB7770 > HBB7770 > AA37848			TGTZ12		UA63539	HIPER	PRF	

Total: 149 Selected: 0

Last refresh: Oct 1, 2015, 3:32:37 PM

# Step 5d ...

IBM z/OS Management Facility

Welcome shara11

Welcome x Software Manage... x

Software Management > Software Instances > Maintenance Reports

### Maintenance Reports

Missing Critical Service x

Review the list of critical service and determine which service are critical for your installation. Use SMP/E to apply the resolving service to the corresponding target zone.

Actions Table view: Non-tree

No filter applied

#### Build Filter

Match All rules Match case

Rules

Hold Class contains hiper

Filter Clear Close

Hold Symptom Filter	FMID Description Filter
	SMPE Base
	DAL
	BCP Base
	FUL
	PRF
	HIPER

Total: 149 Selected: 0

Refresh Last refresh: Oct 1, 2015, 3:32:37 PM

Close Hide

**Enter "hiper" for the "Text" (case doesn't matter)**

**Then click Filter**

# Step 5d ...

The table now identifies all missing HIPER fixes.

## Maintenance Reports

Missing Critical Service x

Review the list of critical service and determine which service are critical for your installation. Use SMP/E to apply the resolving service to the corresponding target zone.

Actions ▾ | Table view: Non-tree

↔ 108 of 149 items shown. Clear filter

<input type="checkbox"/>	Software Instance / FMID / Held SYSMOD / Missing APAR Filter	System Filter	HOLDDATA Received (GMT) Filter	Target Zones Filter	Resolving SYSMODs Received in Global Zone Filter	Resolving SYSMODs Not in Global Zone Filter	Hold Class contains "hiper"	Hold Symptom Filter	FMID Description Filter
<input type="checkbox"/>	MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL	January 16, 2012 'at' 15:23:46						
<input type="checkbox"/>	MASTER_SMPEV3.6_WITHOUT_PTFS > HMP1J00								SM/PE Base
<input type="checkbox"/>	MASTER_SMPEV3.6_WITHOUT_PTFS > HMP1J00 > HMP1J00								
<input type="checkbox"/>	MASTER_SMPEV3.6_WITHOUT_PTFS > HMP1J00 > HMP1J00 > AO14750			TSMP36	U001286		HIPER	DAL	
<input type="checkbox"/>	MASTER_ZOSV1.12	LOCAL	January 16, 2012 'at' 15:23:46						
<input type="checkbox"/>	MASTER_ZOSV1.12 > HBB7770								BCP Base
<input type="checkbox"/>	MASTER_ZOSV1.12 > HBB7770 > HBB7770								
<input type="checkbox"/>	MASTER_ZOSV1.12 > HBB7770 > HBB7770 > AA37192			TGTZ12		UA63547	HIPER	FUL	
<input type="checkbox"/>	MASTER_ZOSV1.12 > HBB7770 > HBB7770 > AA37848			TGTZ12		UA63539	HIPER	PRF	

Total: 108 Selected: 0

Refresh

Last refresh: Oct 1, 2015, 3:32:37 PM

Close

Hide



# Step 5d ...

## Maintenance Reports

Missing Critical Service x

Review the list of critical service and determine which service are crit

Actions Table view: Non-tree

- View
- Maintenance Reports >
- Expand
- Collapse
- Select All
- Deselect All
- Configure Columns...
- Hide Filter Row
- Clear Sorts
- Export Table Data >
- Print Table Data >
- Expand All
- Collapse All
- Switch to Tree View**

**After you are done reviewing the output, click Actions, then Switch to Tree View**

Field	SYSMOD / Missing	System Filter	HOLDDAT (GMT)	Resolving SYSMODs Received in Global Zone Filter	Resolving SYSMODs Not in Global Zone Filter	Hold Class contains "hiper"	Hold Symptom Filter	FMID Desc Filter	
	PTFS	LOCAL						SMP/E Base	
	PTFS > HMP1J00								
	PTFS > HMP1J00 >								
	PTFS > HMP1J00 >		TSM36	U001286		HIPER	DAL		
		LOCAL	January 16, 2012 'at' 15:23:46						
<input type="checkbox"/>	MASTER_ZOSV1.12 > HBB7770								BCP Base
<input type="checkbox"/>	MASTER_ZOSV1.12 > HBB7770 > HBB7770								
<input type="checkbox"/>	MASTER_ZOSV1.12 > HBB7770 > HBB7770 > AA37192								TGTZ12 UA63547 HIPER FUL
<input type="checkbox"/>	MASTER_ZOSV1.12 > HBB7770 > HBB7770 > AA37848								TGTZ12 UA63539 HIPER PRF

**Then click Close**

Total: 108 Selected: 0

Refresh Last refresh: Oct 1, 2015, 3:32:37 PM

Close Hide

**Step 5e: Report on  
“Master” Software  
Instances’ Instance  
Comparison**

# Step 5e

You will now run a report on a single software instance

Welcome x Software Manage... x

Software Management > Software Instances Help

### Software Instances

Switch To: ▾

Actions ▾

4 of 7 items shown. Clear filter

<input type="checkbox"/>	Name contains "MASTER"	System Filter	Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product, Feature, and FMID Information Retrieved (Local) Filter	Last Mod Filter
<input type="checkbox"/>	MASTER_SMPV3.6_WITH_PTFs	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFs.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP36P		Aug 15, 2013, 3:51:00 PM	Jun 29, 2013
<input checked="" type="checkbox"/>	MASTER_SMPV3.6_WITHOUT_PTFs	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product without any PTFs.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP36		Aug 10, 2013, 7:28:52 PM	Jun 29, 2013
<input type="checkbox"/>	MASTER_ZOSV1.12	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the z/OSMF V1.12 product.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TGTZ12		Aug 12, 2013, 3:56:18 PM	Jun 29, 2013
<input type="checkbox"/>	MASTER_zOS_R13_w/Other_Product	LOCAL		z/OS V1.13 with over 20 products to be used during the z/OSMF Software Deployment Lab.		ZOSMF.SWDEPLOY.GLOBAL.CSI	COB320T, DT910T, PL410T, Z1130T		Aug 12, 2013, 3:45:56 PM	Jan 9, 2013

Total: 4 Selected: 1

**Refresh** Last refresh: Oct 1, 2015, 3:30:11 PM

**Close**

## Click on MASTER\_SMPV3.6\_WITHOUT\_PTFs software instance

# Step 5e ...

**Click Actions, Maintenance Reports, then Software Instance Comparison**

## Software Instances

Switch To: ▾

- Actions ▾
  - View ▸
  - Modify
  - Open Deployments
  - Copy...
  - Remove...
  - Retrieve Product, Feature, and FMID Information
  - Maintenance Reports ▸
    - End of Service
    - Software Instance Validation
    - Missing Critical Service
    - Missing FIXCAT SYSMODs
    - SYSMOD Search
    - Software Instance Comparison...
  - Add...
    - Show Hidden Maintenance Reports
  - Select All
  - Deselect All
  - Configure Columns...
  - Hide Filter Row
  - Clear Sorts
  - Export Table Data ▸
  - Print Table Data ▸

Messages Filter	Description Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product, Feature, and FMID Information Retrieved (Local) Filter	Last Mod Filter
	Source Software Instance for z/OS V3.6 product	ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP36P		Aug 15, 2013, 3:51:00 PM	Jun 29, 2013
	Source Software Instance for z/OS V3.6 product	ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP36		Aug 10, 2013, 7:28:52 PM	Jun 29, 2013
	Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains z/OS V1R12 at RSU1105.	ZOSMF.SWDEPLOY.GLOBAL.CSI	TGTZ12		Aug 12, 2013, 3:56:18 PM	Jun 29, 2013
<input type="checkbox"/>	MASTER_zOS_R13_w/Other_Product LOCAL	SMLAB01.GLOBAL.CSI	COB320T, DT910T, PL410T, Z1130T		Aug 12, 2013, 3:45:56 PM	Jan 9, 2015

Total: 4 Selected: 1

Refresh

Last refresh: Oct 1, 2015, 3:30:11 PM

Close

# Step 5e ...

Now you have to identify the software instance to compare to

IBM z/OS Management Console

Software Management > Software Instances > Compare Software Instances

Select Software Instance to Compare

First software instance: MASTER\_SMPEV3.6\_WITHOUT\_PTFS on system LOCAL

Second Software Instance

Actions

3 of 6 items shown. Clear filter

Name contains "MASTER"	System Filter	Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product, Feature, and FMID Information Retrieved (Local) Filter	Last Mod Filter
<input checked="" type="radio"/> MASTER_SMPEV3.6_WITH_PTFS	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFS.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSM36P		Aug 15, 2013, 3:51:00 PM	Jun 29, 20
<input type="radio"/> MASTER_ZOSV1.12	LOCAL		Deployment Software Instance for z/OS V1.12. This instance contains z/OS V1.12 products to be deployed to z/OSMF Software Lab.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TGTZ12		Aug 12, 2013, 3:56:18 PM	Jun 29, 20
<input type="radio"/> MASTER_zOS_R13_w/Other_Product	LOCAL		z/OS V1.13 w/Other_Product Deployment Software Instance for z/OSMF Software Lab.						

Total: 3 Selected: 1

Refresh Last refresh: Oct 1, 2015, 3:59:29 PM

OK Cancel

Click on MASTER\_SMPV3.6\_WITH\_PTFS software instance

After selecting the MASTER\_SMPV3.6\_WITH\_PTFS software instance, click OK

# Step 5e ...

## Select the Zones to Compare

To compare the selected software instances, z/OSMF needs to know which target zones to compare. Use the **Select Zones** action in the **Actions** menu to select the target zones to compare. Target Zones in Second Software Instance column is blank, the corresponding target zone in the first software instance will not be included in the report.

First software instance: MASTER\_SMPEV3.6\_WITHOUT\_PTFS on system  
Second software instance: MASTER\_SMPEV3.6\_WITH\_PTFS on system

### Target Zones to be Compared

- Actions ▾
- Select Zones
- Select All
- Deselect All
- Configure Columns...
- Hide Filter Row
- Clear Sorts

1. Select target zone TSMP36
2. Then click on Actions and Select Zones

	Target Zones in Second Software Instance

Total: 1 Selected: 1

OK

Cancel

# Step 5e ...

A pop-up display allows you to select the target zone in the second software instance

Welcome x Software Manage... x

Software Management > Software Instances > Select Zones [Help](#)

### Select the Zones to Compare

To compare the selected software instances, z/OSMF needs to know which target zones to compare. Use the Select Zones action in the Actions menu to select the target zones to compare with the corresponding target zone in the first software instance. If the Target Zones in Second Software Instance column is blank, the corresponding target zone in the first software instance will not be included in the report.

First software instance: MASTER\_SMPEV3.6\_WITHOUT\_PTFS on system LOCAL  
Second software instance: MASTER\_SMPEV3.6\_WITH\_PTFS on system LOCAL

Target Zones to be Compared

Actions ▾

↔ No filter applied

<input checked="" type="checkbox"/>	Target Zone in First Software Instance	Target Zones in Second Software Instance
<input checked="" type="checkbox"/>	TSMP36	

### Select Zones

Select one or more target zones to compare with the selected target zones.

Selected target zones:  
TSMP36

Compare with:

- Target Zone in Second Software Instance
- TSMP36P

Selected: 1

**1. Select target zone TSMP36P**  
**2. Then click OK**

Total: 1 Selected: 1

# Step 5e ...

## Select the Zones to Compare

To compare the selected software instances, z/OSMF needs to know which target zones to compare. Use the **Select Zones** action in the **Actions** menu to select the target zones to compare with the Target Zones in Second Software Instance column is blank, the corresponding target zone in the first software instance will not be included in the report.

First software instance: MASTER\_SMPEV3.6\_WITHOUT\_PTFS on system LOCAL

Second software instance: MASTER\_SMPEV3.6\_WITH\_PTFS on system LOCAL

### Target Zones to be Compared

Actions ▾

↔ No filter applied

<input checked="" type="checkbox"/>	Target Zone in First Software Instance	Target Zones in Second Software Instance
<input checked="" type="checkbox"/>	TSMP36	TSMP36P

Total: 1 Selected: 1

OK

After reviewing the information, Click OK



# Step 5e ...

IBM z/OS Management Facility

Welcome shara11

Welcome x Software Manage... x

Software Management > Software Instances [Help](#)


### Software Instances

Switch To: ▾

Actions ▾

4 of 7 items shown. Clear filter

<input type="checkbox"/>	Name contains "MASTER"	System Filter	Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product, Feature, and FIMD Information Retrieved (Local) Filter	Last Mod Filter
<input type="checkbox"/>	MASTER_SMPEV3.6_WITH_PTFS	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFs.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSM36P		Aug 15, 2013, 3:51:00 PM	Jun 29, 20
<input checked="" type="checkbox"/>	MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL		Source Software Instance for the z/OSMF Software		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSM36		Aug 10, 2013, 7:28:52 PM	Jun 29, 20
<input type="checkbox"/>	MASTER_ZOSV1.12	LOCAL		Deployment Lab. This instance contains z/OS V1R12 at RSU1105.					Aug 12, 2013, 3:56:18 PM	Jun 29, 20
<input type="checkbox"/>	MASTER_zOS_R13_w/Other_Product	LOCAL		z/OS V1.13 with over 20 other products to be used during z/OSMF Software Management Lab						

 Creating the Software Instance Comparison report. This request might take several minutes to complete.

**Pop-up window to alert you that this might take a few minutes, and allow you to cancel, just let it complete**

Total: 4 Selected: 1

Last refresh: Oct 1, 2015, 3:30:11 PM

# Step 5e ...

Results shown in a scrollable tree table. You will have to expand each row to see the actual results.

## Maintenance Reports

Software Instance Comparison x

Review the list of SYSMODs found in the second software instance, but not in the first software instance. If the software instances need to be at the same service level or contain the same function, use SMP/E to apply the SYSMODs to the corresponding target zones in the first software instance.

First software instance: MASTER\_SMPEV3.6\_WITHOUT\_PTFS on system LOCAL

Second software instance: MASTER\_SMPEV3.6\_WITH\_PTFS on system LOCAL

### SYSMODs Not Found in First Software Instance

Actions Table view: Tree

No filter applied

<input type="checkbox"/>	F MID/SYSMOD Filter	Description Filter	Type Filter	Target Zone in First Software Instance Filter	Target Zone in Second Software Instance Filter	SYSMOD Received in Global Zone Filter
<input type="checkbox"/>	+ HBCNC00	SMP/E Planning and Migration Assistant Software Info Base				
<input type="checkbox"/>	+ HBCND0B	SMP/E Planning and Migration Assistant				
<input type="checkbox"/>	+ HMP1J00	SMP/E Base				

Total: 16 Selected: 0

Close

Hide

# Step 5e ...

## Maintenance Reports

### Software Instance Comparison x

Review the list of SYSMODs found in the second software instance, but not in the first software instance. If the software instances need to be at the same service level or contain the target zones in the first software instance.

First software instance: MASTER\_SMPEV3.6\_WITHOUT\_PTFS on system L  
Second software instance: MASTER\_SMPEV3.6\_WITH\_PTFS on system LOCA

**Click Actions, then Expand All**

SYSMODs Not Found in First Software Instance

- Actions ▾
- Table view: Tree
- Expand
- Collapse
- Select All
- Deselect All
- Configure Columns...
- Hide Filter Row
- Clear Sorts
- Export Table Data ▶
- Print Table Data ▶
- Expand All**
- Collapse All
- Switch to Non-Tree View

Description	Type Filter	Target Zone in First Software Instance Filter	Target Zone in Second Software Instance Filter	SYSMOD Received in Global Zone Filter
.../E Planning and ...ration Assistant ...ware Info Ba...				
.../E Planning and ...ration Assistant				
.../E Base				

Total: 16 Selected: 0

# Step 5e ...

Similar to REPORT SYSMODs Output displayed in tree table format. The REPORT SYSMODs command only report on GLOBAL zones that are accessible where the command is run. Software Management can compare software instances where either one of them resides ANYWHERE in your enterprise!!!

Review the list of SYSMODs in the first software instance, but not in the second instance, but the same service level or contain the same function, use SMP target zones in the first software instance.

First software instance: MASTER\_SMPEV3.6\_WITHOUT\_PTFS on system LOCAL

Second software instance: MASTER\_SMPEV3.6\_WITH\_PTFS on system LOCAL

## SYSMODs Not Found in First Software Instance

Actions | Table view: Tree

↔ No filter applied

<input type="checkbox"/>	F MID/SYSMOD Filter	Description Filter	Type Filter	Target Zone in First Software Instance Filter	Target Zone in Second Software Instance Filter	SYSMOD Received in Global Zone Filter
<input type="checkbox"/>	<input checked="" type="checkbox"/> HBCNC00	SMP/E Planning and Migration Assistant Software Info Base				
<input type="checkbox"/>	U001301		PTF	TSMP36	TSMP36P	No
<input type="checkbox"/>	<input checked="" type="checkbox"/> HBCND0B	SMP/E Planning and Migration Assistant				
<input type="checkbox"/>	U001185		PTF	TSMP36	TSMP36P	No
<input type="checkbox"/>	U001268		PTF	TSMP36	TSMP36P	No
<input type="checkbox"/>	UR53091		PTF	TSMP36	TSMP36P	No
<input type="checkbox"/>	<input checked="" type="checkbox"/> HMP1J00	SMP/E Base				
<input type="checkbox"/>	UAPTF01		USERMOD	TSMP36	TSMP36P	No
<input type="checkbox"/>	U001198		PTF			No
<input type="checkbox"/>	U001245		PTF			No

Total: 16 Selected: 0

After reviewing the report, click Close

Close Hide

**Step 5f: Report on  
“Master” Software  
Instances’ Instance  
Validation**

Now you will perform two software instance validations. First the simple one, then the more complex software instance.

1. Make sure the MASTER\_SMPV3.6\_WITHOUT\_PTFS software instance is selected
2. Then click Actions, Maintenance Reports, then Software Instance Validation

IBM z/OS Management Facility

Welcome shara11

IBM

Welcome x Software Manage... x

Software Management > Software Instances

Software Instances

- Actions
- View
  - Modify
  - Open Deployments
  - Copy...
  - Remove...
  - Retrieve Product, Feature, and FMID Information
  - Maintenance Reports
  - Add...
  - Show Hidden Maintenance Reports
  - Select All
  - Deselect All
  - Configure Columns...

Messages Filter	Description Filter	Target Zone CSI Filter	Target Zones Filter	Categories Filter	Product, Feature, and FMID Information Retrieved (Local) Filter	Last Mod Filter
	Source Software	ZOSMF.SWDEPLOY.GLOBAL.CSI	TSM36P		Aug 15, 2013, 3:51:00 PM	Jun 29, 20
	is instance P/E V3.6 product					
	re Instance for ware b. This instance P/E V3.6 product Fs.	ZOSMF.SWDEPLOY.GLOBAL.CSI	TSM36		Aug 10, 2013, 7:28:52 PM	Jun 29, 20


The Software Instance Validation report helps you verify that the software libraries that are associated with a software instance exist and contain the appropriate parts. When you generate the Software Instance Validation report, z/OSMF compares the entries in the SMP/E zones for the software instance to the content of the currently accessible DASD volumes, and reports any discrepancies as errors.


This action:


- Will display additional information, not available through batch SMP/E
- Can be performed against software instances throughout your enterprise

# Step 5f ...


## Software Instances

Switch To: 

Actions 

 4 of 7 items shown. [Clear filter](#)

<input type="checkbox"/>	Name contains "MASTER"	System Filter	Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product, Feature, and FMID Information Retrieved (Local) Filter	Last Mod Filter
<input type="checkbox"/>	MASTER_SMPEV3.6_WITH_PTFS	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFS.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP36P		Aug 15, 2013, 3:51:00 PM	Jun 29, 20
<input checked="" type="checkbox"/>	MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL		Source Software Instance for		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP36		Aug 10, 2013, 7:28:52 PM	Jun 29, 20
<input type="checkbox"/>	MASTER_ZOSV1.12	LOCAL		contains z/OS V1R12 at RSU1105.					Aug 12, 2013, 3:56:18 PM	Jun 29, 20
<input type="checkbox"/>	MASTER_zOS_R13_wOther_Product	LOCAL		z/OS V1.13 with over 20 other products to be used during z/OSMF Software Manag Lab					Aug 13, 2013, 3:45:58 PM	Jun 29, 20

 Validating software instance "MASTER\_SMPEV3.6\_WITHOUT\_PTFS". This request might take several minutes to complete.

1%

**Pop-up window to alert you that this might take a few minutes, and allow you to cancel, just let it complete**

Total: 4 Selected: 1

Last refresh: Oct 1, 2015, 3:30:11 PM

# Step 5f ...

The results are displayed.

Software Management > Software Instances > Maintenance Reports

## Maintenance Reports

Software Instance Validation x

Selected software instance: MASTER\_SMPEV3.6\_WITHOUT\_PTFS on system LOCAL  
Date validated: Oct 1, 2015, 4:23:49 PM (Local)

### Errors

Actions ▾ | Revalidate

↔ No filter applied

Message ID Filter	Message Text Filter	Data Set Name Filter	
----------------------	------------------------	-------------------------	--

There is no data to display.

Since no errors were discovered, the text “There is no data to display” will be displayed within table

Note: It is expected that no errors will be found for this instance.

Total: 0

Close

Hide



# Step 5f ...

To prepare for the more complex instance validation, you will need to go back to the Software Instances tab

Switch To: ▾

Actions ▾

4 of 7 items shown. Clear filter

<input type="checkbox"/>	Name contains "MASTER"	System Filter	Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product, Feature, and FMID Information Retrieved (Local) Filter	Last Mod Filter
<input type="checkbox"/>	MASTER_SMPEV3.6_WITH_PTFS	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFS.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP36P		Aug 15, 2013, 3:51:00 PM	Jun 29, 20
<input checked="" type="checkbox"/>	MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product without any PTFS.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP36		Aug 10, 2013, 7:28:52 PM	Jun 29, 20
<input type="checkbox"/>	MASTER_ZOSV1.12	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains z/OS V1R12 at RSU1105.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TGTZ12		Aug 12, 2013, 3:56:18 PM	Jun 29, 20
<input type="checkbox"/>	MASTER_zOS_R13_w/Other_Product	LOCAL		z/OS V1.13 with over 20 other products to be used during the z/OSMF Software Management Lab		SMLAB01.GLOBAL.CSI	COB320T, DT910T, PL410T, Z1130T		Aug 12, 2013, 3:45:56 PM	Jan 9, 2011

Click on Close

Total: 4 Selected: 1

Refresh Last refresh: Oct 1, 2015, 3:30:11 PM

Close

# Step 5f ...

IBM z/OS Management Facility Welcome shara11

Welcome x Software Manage... x

Software Management > Software Instances Help

### Software Instances

Switch To: ▾

Actions ▾

4 of 7 items shown. Clear filter

<input type="checkbox"/>	Name	System	Messages	Description	Activity	Global Zone CSI	Target Zones	Categories	Product, Feature, and FMID Information Retrieved (Local)	Last Mod
<input type="checkbox"/>	contains "MASTER"	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
<input type="checkbox"/>	MASTER_SM									
<input type="checkbox"/>	MASTER_SM									
<input type="checkbox"/>	MASTER_ZOSV1.12	LOCAL		... Software Instance for the z/OSMF Software Deployment Lab. This instance contains z/OS V1R12 at RSU1105.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TGTZ12		Aug 12, 2013, 3:56:18 PM	Jun 29, 20
<input checked="" type="checkbox"/>	MASTER_zOS_R13_w/Other_P	LOCAL		z/OS V1.13 with over 20 other products to be used during the z/OSMF Software Management Lab		SMLAB01.GLOBAL.CSI	COB320T, DT910T, PL410T, Z1130T		Aug 12, 2013, 3:45:56 PM	Jan 9, 201

Total: 4 Selected: 1

Last refresh: Oct 1, 2015, 3:30:11 PM

**Deselect the other software instances so that only the MASTER\_zOS\_R13\_w/Other\_Product software instance is selected.**

# Step 5f ...

IBM z/OS Management Facility Welcome shara11

Welcome x Software Manage... x

Software Management > Software Instances

### Software Instances

Switch To: ▾

Actions ▾

- View ▸
- Modify
- Open Deployments
- Copy...
- Remove...
- Retrieve Product, Feature, and FMID Information
- Maintenance Reports ▸
- Add...
- Show Hidden Maintenance Reports
- Select All
- Deselect All
- Configure Columns...
- Hide Filter Row
- Clear Sorts
- Export Table Data ▸
- Print Table Data ▸

Messages Filter	Description Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product, Feature, and FMID Information Retrieved (Local) Filter	Last Mod Filter	
	Source Software Instance for z/OS V3.6 product	ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP36P		Aug 15, 2013, 3:51:00 PM	Jun 29, 2013	
	Source Software Instance for z/OS V3.6 product	ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP36		Aug 10, 2013, 7:28:52 PM	Jun 29, 2013	
	Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains z/OS V1R12 at RSU1105.	ZOSMF.SWDEPLOY.GLOBAL.CSI	TGTZ12		Aug 12, 2013, 3:56:18 PM	Jun 29, 2013	
<input checked="" type="checkbox"/>	MASTER_zOS_R13_w/Other_Product	LOCAL	z/OS V1.13 with over 20 other products to be used during the z/OSMF Software Management Lab	SMLAB01.GLOBAL.CSI	COB320T, DT910T, PLI410T, Z1130T	Aug 12, 2013, 3:45:56 PM	Jan 9, 2013

Total: 4 Selected: 1

Last refresh: Oct 1, 2015, 3:30:11 PM

**Then click Actions, Maintenance Reports, then Software Instance Validation**

# Step 5f ...

This validation will take a few minutes to complete

Software Management > Software Instances Help

### Software Instances

Switch To: ▾

Actions ▾

4 of 7 items shown. [Clear filter](#)

<input type="checkbox"/>	Name Filter	System Filter	Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Categories Filter	Product, Feature, and FMID Information Retrieved (Local) Filter	Last Mod Filter
<input type="checkbox"/>	contains "MASTER"									
<input type="checkbox"/>	MASTER_SMPEV3.6_WITH_PTFS	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFs.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP36P		Aug 15, 2013, 3:51:00 PM	Jun 29, 2013
<input type="checkbox"/>	MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL		Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product without PTFs.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSMP36		Aug 10, 2013, 7:28:52 PM	Jun 29, 2013
<input type="checkbox"/>	MASTER_ZOSV1.12	LOCAL		contains z/OS V1R12 at RSU1105.					Aug 12, 2013, 3:56:18 PM	Jun 29, 2013
<input checked="" type="checkbox"/>	MASTER_zOS_R13_wOther_Product	LOCAL		z/OS V1.13 with over 20 other products to be used during the z/OSMF Software Management Lab		SMLAB01.GLOBAL.CSI	COB320T, DT910T, PL410T, Z1130T		Aug 12, 2013, 3:45:56 PM	Jan 9, 2013

Validating software instance "MASTER\_zOS\_R13\_wOther\_Product". This request might take several minutes to complete.

1%

Cancel

- If you are in a rush, click on Cancel.
- Otherwise, just let it complete.

Total: 4 Selected: 1

Refresh Last refresh: Oct 1, 2015, 3:30:11 PM

Close

**Note: Errors were introduced in the software instance to show errors. The kinds of validation errors that are identified include DDDEFs pointing to the wrong data sets, file systems not mounted, or ...**

Software Instance Validation x

Selected software instance: MASTER\_zOS\_R13\_w/Other\_Product on system LOCAL  
Date validated: Oct 1, 2015, 4:32:17 PM (Local)

Errors

Actions ▾ | Revalidate

↔ No filter applied

Message ID Filter	Message Text Filter	Data Set Name Filter
✘ GIM70564E	LMOD ABJDBG was not found in data set DT910.SABJMOD1 on volume SHAR01 from DDDEF entry SABJMOD1 in TARGET zone DT910T.	DT910.SABJMO
✘ GIM70534E	DDDEF AAJVHFS in zone Z1130D indicates data set JAVA.AAJVHFS resides on volume SHAR03, but data set JAVA.AAJVHFS was not found on volume SHAR03.	JAVA.AAJVHFS
✘ GIM70534E	DDDEF AAJVSMP1 in zone Z1130D indicates data set JAVA.AAJVSMP1 resides on volume SHAR03, but data set JAVA.AAJVSMP1 was not found on volume SHAR03.	JAVA.AAJVSMF
✘ GIM70565E	A ALIAS for LMOD CNMNETV was not found in data set NETVIEW.SCNMLPA1 on volume SHAR01 from DDDEF entry SCNMLPA1 in TARGET zone Z1130T. The ALIAS is CNMNETV.	NETVIEW.SCNM
✘ GIM70562E	SAMP IBMZCPLG was not found in data set PLI410.SIBMZPRC on volume SHAR01 from DDDEF entry SIBMZPRC in TARGET zone PLI410T. The FMD for IBMZCPLG is H270410 and the RMD is H270410.	PLI410.SIBMZPR
✘ GIM70567E	A LINK for HFS CDSLM008 was not found in directory /sharelab /SMLAB01/usr/lpp/ocsf/IBM/ from DDDEF entry SCDSHFS in TARGET zone Z1130T. The FMD is HCRY740 and the RMD is HCRY740. The LINK is ../lpp/ocsf_baseivp.	SMLAB01.ROOT
✘ GIM70567E	A SYMLINK for HFS CDSLM037 was not found in directory	SMLAB01.ROOT

Total: 8

Close Hide

- Load module missing from its target library
- A load module alias is missing from its target library
- An SMP/E SAMP element is missing from its target library
- A z/OS UNIX LINK was not found in mounted file systems
- A z/OS UNIX SYMLINK was not found in mounted file systems
- An alias of an SMP/E DATA element is missing from its target library

# Step 5f

Welcome x Software Manage... x

Software Management > Software Instances > Maintenance Reports

## Maintenance Reports

Software Instance Validation x

Selected software instance: MASTER\_zOS\_R13\_w/Other\_Product on system LOCAL  
Date validated: Oct 1, 2015, 4:32:17 PM (Local)

After reviewing the message, click Software Management 'bread crumb'

### Errors

Actions | Revalidate

No filter applied

Message ID Filter	Message Text Filter	Data Set Name Filter
 GIM70564E	LMOD ABJDBG was not found in data set DT910.SABJMOD1 on volume SHAR01 from DDDEF entry SABJMOD1 in TARGET zone DT910T.	DT910.SABJMOD1
 GIM70534E	DDDEF AAJVHFS in zone Z1130D indicates data set JAVA.AAJVHFS resides on volume SHAR03, but data set JAVA.AAJVHFS was not found on volume SHAR03.	JAVA.AAJVHFS
 GIM70534E	DDDEF AAJVSMP1 in zone Z1130D indicates data set JAVA.AAJVSMP1 resides on volume SHAR03, but data set JAVA.AAJVSMP1 was not found on volume SHAR03.	JAVA.AAJVSMP1
 GIM70565E	A ALIAS for LMOD CNMNETV was not found in data set NETVIEW.SCNMLPA1 on volume SHAR01 from DDDEF entry SCNMLPA1 in TARGET zone Z1130T. The ALIAS is CNMNETV.	NETVIEW.SCNMLPA1
 GIM70562E	SAMP IBMZCPLG was not found in data set PLI410.SIBMZPRC on volume SHAR01 from DDDEF entry SIBMZPRC in TARGET zone PLI410T. The FMD for IBMZCPLG is H270410 and the RMID is H270410.	PLI410.SIBMZPRC
 GIM70567E	A LINK for HFS CDSLMO08 was not found in directory /sharelab/SMLAB01/usr/lpp/ocsf/IBM/ from DDDEF entry SCDSHFS in TARGET zone Z1130T. The FMD is HCRY740 and the RMID is HCRY740. The LINK is ../ivp/ocsf_baseivp.	SMLAB01.ROOT
 GIM70567E	A SYMLINK for HFS CDSLMO37 was not found in directory	SMLAB01.ROOT

Total: 8

Close

Hide

## **Step 6: View Products**

# Step 6

Click on Products

IBM z/OS Management Facility

Welcome x

Software Manage... x

## Software Management

Use this task to view details about your software inventory, including related products, features, FMIDs, data sets, deployments, and SYSMODs. [Learn more...](#)

<a href="#">Software Instances</a>	Define your software to z/OSMF; deploy software; generate reports about your software.
<a href="#">Products</a>	View a consolidated list of the products included in each software instance.
<a href="#">Deployments</a>	Deploy a software instance, and manage existing deployments.
<a href="#">Categories</a>	Create new categories for your software instances and deployments, and manage existing categories.
<a href="#">Settings</a>	Select the time zone in which to display date and time data. Indicate whether to display or suppress information messages.



A list of installed products is displayed. It can be sorted using ANY column, or filtered.

## Products

This table lists the products that are installed in at least one software instance where the product information was retrieved. To ensure that this list reflects the latest SMP/E information, use the Retrieve Product, Feature, and FMID Information action provided in the Software Instances view. [Learn more...](#)

Switch To: ▾

Actions ▾

No filter applied

<input type="checkbox"/>	Product Filter	Release Filter	Product ID Filter	Messages Filter	Vendor Filter	General Availability Filter	End of Service Filter	Additional Product Information Filter
<input type="checkbox"/>	System Modification Program Extended for z/OS	03.06.00	5655-G44		IBM	Sep 30, 2011	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apname=ShopzSeries&amp;htmlfid=897/ENUS5655-G44">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apname=ShopzSeries&amp;htmlfid=897/ENUS5655-G44</a>
<input type="checkbox"/>	z/OS	01.12.00	5694-A01		IBM	Sep 24, 2010	<input checked="" type="checkbox"/> Sep 30, 2014	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apname=ShopzSeries&amp;htmlfid=897/ENUS5694-A01">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apname=ShopzSeries&amp;htmlfid=897/ENUS5694-A01</a>
<input type="checkbox"/>	Enterprise COBOL for z/OS and OS/390	03.02.00	5655-G53		IBM	Sep 27, 2002	<input checked="" type="checkbox"/> Oct 3, 2005	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apname=ShopzSeries&amp;htmlfid=897/ENUS5655-G53">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apname=ShopzSeries&amp;htmlfid=897/ENUS5655-G53</a>
<input type="checkbox"/>	Debug Tool V9	09.01.00	5655-U27		IBM	Sep 26, 2008	<input checked="" type="checkbox"/> Apr 30, 2012	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apname=ShopzSeries&amp;htmlfid=897/ENUS5655-U27">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apname=ShopzSeries&amp;htmlfid=897/ENUS5655-U27</a>
<input type="checkbox"/>	Enterprise PL/I V4	04.01.00	5655-W67		IBM	Sep 24, 2010	<input checked="" type="checkbox"/> Apr 30, 2014	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apname=ShopzSeries&amp;htmlfid=897/ENUS5655-W67">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apname=ShopzSeries&amp;htmlfid=897/ENUS5655-W67</a>
<input type="checkbox"/>	z/OS	01.13.00	5694-A01		IBM	Sep 30, 2011	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apname=ShopzSeries&amp;htmlfid=897/ENUS5694-A01">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apname=ShopzSeries&amp;htmlfid=897/ENUS5694-A01</a>
<input type="checkbox"/>	AFP FONT COLLECTION FOR S/390	02.01.01	5648-B33		IBM	Oct 27, 2000	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apname=ShopzSeries&amp;htmlfid=897/ENUS5648-B33">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apname=ShopzSeries&amp;htmlfid=897/ENUS5648-B33</a>
<input type="checkbox"/>	Debug Tool V12	12.01.00	5655-W70		IBM	May 11, 2012	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apname=ShopzSeries&amp;htmlfid=897/ENUS5655-W70">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apname=ShopzSeries&amp;htmlfid=897/ENUS5655-W70</a>
<input type="checkbox"/>	DITTO/ESA FOR MVS	01.03.00	5655-103		IBM	Jun 25, 1999	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apname=ShopzSeries&amp;htmlfid=897/ENUS5655-103">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apname=ShopzSeries&amp;htmlfid=897/ENUS5655-103</a>
<input type="checkbox"/>	Enterprise COBOL V4	04.02.00	5655-S71		IBM	Jun 28, 2009	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apname=ShopzSeries&amp;htmlfid=897/ENUS5655-S71">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;apname=ShopzSeries&amp;htmlfid=897/ENUS5655-S71</a>

Total: 27 Selected: 0

Refresh

Close

**Note: There is no easy way to compile a list of all installed products across your enterprise using SMP/E list commands or query functions.**

For example clicking on Product will sort the table based on product name.

Hover and click on the ^ in the Product column

## Products

This table lists the products that are installed in at least one software instance where the product information was retrieved. To ensure that this list reflects the latest SMP/E information, use the **Retrieve Product, Feature, and FMID Information** action [more...](#)

Product Filter	Rel. Filter	Product ID Filter	Product Name	Manufacturer	Release Date	End of Service Filter	End of Service Date
<input type="checkbox"/>			System Modification Program Extended for z/OS	IBM	03.08.00	✔ Not Announced	
<input type="checkbox"/>			z/OS	IBM	01.12.00	✘ Sep 30, 2014	
<input type="checkbox"/>			Enterprise COBOL for z/OS and OS/390	IBM	03.02.00	✘ Oct 3, 2005	
<input type="checkbox"/>			Debug Tool V9	IBM	09.01.00	✘ Apr 30, 2012	
<input type="checkbox"/>			Enterprise PL/I V4	IBM	04.01.00	✘ Apr 30, 2014	
<input type="checkbox"/>			z/OS	IBM	01.13.00	✔ Not Announced	
<input type="checkbox"/>			AFP FONT COLLECTION FOR S/390	IBM	02.01.01	✔ Not Announced	
<input type="checkbox"/>			Debug Tool V12	IBM	12.01.00	✔ Not Announced	
<input type="checkbox"/>			DITTO/ESA FOR MVS	IBM	01.03.00	✔ Not Announced	
<input type="checkbox"/>			Enterprise COBOL V4	IBM	04.02.00	✔ Not Announced	

Total: 27 Selected: 0

Last refresh: Oct 1, 2015, 4:38:19 PM

# Step 6

The table is now sorted and a triangle point up is now displayed in the Product column heading.

Welcome x Software Manage... x

Software Management > Products

### Products

This table lists the products that are installed in at least one software instance where the product information was retrieved. To ensure that this list reflects the latest SMP/E information, use the Retrieve Product, Feature, and FMID Information action provided in the Software Instance more...

Actions

No filter applied

Product Filter	Release Filter	Product ID Filter	Messages Filter	Vendor Filter	General Availability Filter	End of Service Filter	Additional Product Information Filter
<input type="checkbox"/>	AFP FONT COLLECTION FOR S/390	02.01.01	5648-B33	IBM	Oct 27, 2000	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/bin/ssialiases?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E">http://www-01.ibm.com/common/ssi/bin/ssialiases?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E</a>
<input type="checkbox"/>	DITTO/ESA FOR MVS	01.03.00	5655-103	IBM	Jun 25, 1999	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/bin/ssialiases?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E">http://www-01.ibm.com/common/ssi/bin/ssialiases?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E</a>
<input type="checkbox"/>	Debug Tool V12	12.01.00	5655-W70	IBM	May 11, 2012	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/bin/ssialiases?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E">http://www-01.ibm.com/common/ssi/bin/ssialiases?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E</a>
<input type="checkbox"/>	Debug Tool V9						<a href="http://www-01.ibm.com/common/ssi/bin/ssialiases?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E">http://www-01.ibm.com/common/ssi/bin/ssialiases?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E</a>
<input type="checkbox"/>	Enterprise COBOL V4						<a href="http://www-01.ibm.com/common/ssi/bin/ssialiases?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E">http://www-01.ibm.com/common/ssi/bin/ssialiases?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E</a>
<input type="checkbox"/>	Enterprise COBOL for z/OS and OS/390						<a href="http://www-01.ibm.com/common/ssi/bin/ssialiases?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E">http://www-01.ibm.com/common/ssi/bin/ssialiases?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E</a>
<input type="checkbox"/>	Enterprise PL/I V4	04.01.00	5655-W67	IBM	Sep 24, 2010	<input type="checkbox"/> Apr 30, 2014	<a href="http://www-01.ibm.com/common/ssi/bin/ssialiases?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E">http://www-01.ibm.com/common/ssi/bin/ssialiases?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E</a>
<input type="checkbox"/>	Enterprise PL/I V4	04.02.00	5655-W67	IBM	Sep 30, 2011	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/bin/ssialiases?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E">http://www-01.ibm.com/common/ssi/bin/ssialiases?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E</a>
<input type="checkbox"/>	Fault Analyzer V12	12.01.00	5655-W89	IBM	May 11, 2012	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/bin/ssialiases?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E">http://www-01.ibm.com/common/ssi/bin/ssialiases?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E</a>
<input type="checkbox"/>	File Mananer V12	12.01.00	5655-WAR	IBM	May 11, 2012	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/bin/ssialiases?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E">http://www-01.ibm.com/common/ssi/bin/ssialiases?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E</a>

Total: 27 Selected: 0

Last refresh: Oct 1, 2015, 4:36:19 PM

Again, you can click the Additional Product Information link and view the IBM Sales Manual description of the product in another tab of your browser session

# Step 6 ...

## Products

This table lists the products that are installed in at least one software instance where the product information was retrieved. To ensure that this list reflects the latest SMP/E information, use the **Retrieve Product, Feature, and FMID Information** action provided in the Software Instance [more...](#)

Click  to select all software products

<input type="checkbox"/>	Product Filter	Release Filter	Product ID Filter	Messages Filter	Vendor Filter	General Availability Filter	End of Service Filter	Additional Product Information Filter
<input type="checkbox"/>	AFP FONT COLLECTION FOR S/390	02.01.01	5648-B33		IBM	Oct 27, 2000	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E">http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E</a>
<input type="checkbox"/>	DITTO/ESA FOR MVS	01.03.00	5655-103		IBM	Jun 25, 1999	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E">http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E</a>
<input type="checkbox"/>	Debug Tool V12	12.01.00	5655-W70		IBM	May 11, 2012	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E">http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E</a>
<input type="checkbox"/>	Debug Tool V9	09.01.00	5655-U27		IBM	Sep 26, 2008	<input checked="" type="checkbox"/> Apr 30, 2012	<a href="http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E">http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E</a>
<input type="checkbox"/>	Enterprise COBOL V4	04.02.00	5655-S71		IBM	Aug 28, 2009	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E">http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E</a>
<input type="checkbox"/>	Enterprise COBOL for z/OS and OS/390	03.02.00	5655-G53		IBM	Sep 27, 2002	<input checked="" type="checkbox"/> Oct 3, 2005	<a href="http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E">http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E</a>
<input type="checkbox"/>	Enterprise PL/I V4	04.01.00	5655-W67		IBM	Sep 24, 2010	<input checked="" type="checkbox"/> Apr 30, 2014	<a href="http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E">http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E</a>
<input type="checkbox"/>	Enterprise PL/I V4	04.02.00	5655-W67		IBM	Sep 30, 2011	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E">http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E</a>
<input type="checkbox"/>	Fault Analyzer V12	12.01.00	5655-W89		IBM	May 11, 2012	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E">http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E</a>
<input type="checkbox"/>	File Manager V12	12.01.00	5655-WAR		IBM	May 11, 2012	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E">http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/E</a>

Total: 27 Selected: 0

Last refresh: Oct 1, 2015, 4:36:19 PM

# Step 6 ...

**Click Actions, View, and then Software Instances**

**Products**

This table lists the products that are installed in at least one software instance where the product information was retrieved. To see the latest SMP/E information, use the Retrieve Product, Feature, and FMID Information action provided in the Software Instance more...

	Release Filter	Product ID Filter	Messages Filter	Vendor Filter	General Availability Filter	End of Service Filter	Additional Product Information Filter
<input checked="" type="checkbox"/>	02.01.01	5648-B33		IBM	Oct 27, 2000	Not Announced	<a href="http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=appname=ShopzSeries&amp;htmlfid=897">http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=appname=ShopzSeries&amp;htmlfid=897</a>
<input type="checkbox"/>	01.03.00	5655-103		IBM	Jun 25, 1999	Not Announced	<a href="http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=appname=ShopzSeries&amp;htmlfid=897">http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=appname=ShopzSeries&amp;htmlfid=897</a>
<input type="checkbox"/>	12.01.00	5655-W70		IBM	May 11, 2012	Not Announced	<a href="http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=appname=ShopzSeries&amp;htmlfid=897">http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=appname=ShopzSeries&amp;htmlfid=897</a>
<input checked="" type="checkbox"/>	09.01.00	5655-U27		IBM	Sep 26, 2008	Apr 30, 2012	<a href="http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=appname=ShopzSeries&amp;htmlfid=897">http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=appname=ShopzSeries&amp;htmlfid=897</a>
<input checked="" type="checkbox"/>	04.02.00	5655-S71		IBM	Aug 28, 2009	Not Announced	<a href="http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=appname=ShopzSeries&amp;htmlfid=897">http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=appname=ShopzSeries&amp;htmlfid=897</a>
<input checked="" type="checkbox"/>	03.02.00	5655-G53		IBM	Sep 27, 2002	Oct 3, 2005	<a href="http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=appname=ShopzSeries&amp;htmlfid=897">http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=appname=ShopzSeries&amp;htmlfid=897</a>
<input checked="" type="checkbox"/>	04.01.00	5655-W67		IBM	Sep 24, 2010	Apr 30, 2014	<a href="http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=appname=ShopzSeries&amp;htmlfid=897">http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=appname=ShopzSeries&amp;htmlfid=897</a>
<input checked="" type="checkbox"/>	04.02.00	5655-W67		IBM	Sep 30, 2011	Not Announced	<a href="http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=appname=ShopzSeries&amp;htmlfid=897">http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=appname=ShopzSeries&amp;htmlfid=897</a>
<input checked="" type="checkbox"/>	12.01.00	5655-W69		IBM	May 11, 2012	Not Announced	<a href="http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=appname=ShopzSeries&amp;htmlfid=897">http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=appname=ShopzSeries&amp;htmlfid=897</a>
<input checked="" type="checkbox"/>	12.01.00	5655-W69		IBM	May 11, 2012	Not Announced	<a href="http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=appname=ShopzSeries&amp;htmlfid=897">http://www-01.ibm.com/common/ssi/bin/ssialias?infotype=dd&amp;subtype=appname=ShopzSeries&amp;htmlfid=897</a>

Total: 27 Selected: 27

**Refresh** Last refresh: Oct 1, 2015, 4:36:19 PM

**Close**

# Step 6

For each product, all the software instances where that product is installed will be displayed.

Welcome x Software Manage...

Software Management > Products > View Software Instances

### View Software Instances by Product

Software Instances by Product

Actions | Table view: Tree

No filter applied

<input type="checkbox"/>	Product / Software Instance Filter	Release Filter	Product ID Filter	Messages Filter	Vendor Filter	General Availability Filter	End of Service Filter	Additional Filter
<input type="checkbox"/>	System Modification Program Extended for z/OS	03.06.00	5655-G44		IBM	Sep 30, 2011	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-4.ibm.com/ssa/alias?appname=S">http://www-4.ibm.com/ssa/alias?appname=S</a>
<input type="checkbox"/>	z/OS	01.12.00	5694-A01		IBM	Sep 24, 2010	<input checked="" type="checkbox"/> Sep 30, 2014	<a href="http://www-4.ibm.com/ssa/alias?appname=S">http://www-4.ibm.com/ssa/alias?appname=S</a>
<input type="checkbox"/>	Enterprise COBOL for z/OS and OS/390	03.02.00	5655-G53		IBM	Sep 27, 2002	<input checked="" type="checkbox"/> Oct 3, 2005	<a href="http://www-4.ibm.com/ssa/alias?appname=S">http://www-4.ibm.com/ssa/alias?appname=S</a>
<input type="checkbox"/>	Debug Tool V9	09.01.00	5655-U27		IBM	Sep 28, 2008	<input checked="" type="checkbox"/> Apr 30, 2012	<a href="http://www-4.ibm.com/ssa/alias?appname=S">http://www-4.ibm.com/ssa/alias?appname=S</a>
<input type="checkbox"/>	Enterprise PL/I V4	04.01.00	5655-W67		IBM	Sep 24, 2010	<input checked="" type="checkbox"/> Apr 30, 2014	<a href="http://www-4.ibm.com/ssa/alias?appname=S">http://www-4.ibm.com/ssa/alias?appname=S</a>
<input type="checkbox"/>	z/OS	01.13.00	5694-A01		IBM	Sep 30, 2011	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-4.ibm.com/ssa/alias?appname=S">http://www-4.ibm.com/ssa/alias?appname=S</a>
<input type="checkbox"/>	AFP FONT COLLECTION FOR S/390	02.01.01	5648-B33		IBM	Oct 27, 2000	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-4.ibm.com/ssa/alias?appname=S">http://www-4.ibm.com/ssa/alias?appname=S</a>
<input type="checkbox"/>	Debug Tool V12	12.01.00	5655-W70		IBM	May 11, 2012	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-4.ibm.com/ssa/alias?appname=S">http://www-4.ibm.com/ssa/alias?appname=S</a>
<input type="checkbox"/>	DITTO/ESA FOR MVS	01.03.00	5655-103		IBM	Jun 25, 1999	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-4.ibm.com/ssa/alias?appname=S">http://www-4.ibm.com/ssa/alias?appname=S</a>
<input type="checkbox"/>	Enterprise COBOL V4	04.02.00	5655-S71		IBM	Aug 28, 2009	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-4.ibm.com/ssa/alias?appname=S">http://www-4.ibm.com/ssa/alias?appname=S</a>

Total: 55 Selected: 0

Last refresh: Oct 1, 2015, 5:01:16 PM

# Step 6 ...

IBM z/OS Management Facility

Welcome x Software Manage... x

Software Management > Products > View Software Instances

## View Software Instances by Product

Software Instances by Product

**Click Actions, then Expand All**

Actions	Table view: Tree	Release	Product ID	Vendor	General Availability	End of Service	Additional Product
<input type="checkbox"/>		08.00		IBM	Sep 30, 2011	✔ Not Announced	<a href="http://www-01.ibm.com/...">http://www-01.ibm.com/...</a>
<input type="checkbox"/>		12.00	5894-A01	IBM	Sep 24, 2010	✘ Sep 30, 2014	<a href="http://www-01.ibm.com/...">http://www-01.ibm.com/...</a>
<input type="checkbox"/>			5855-G53	IBM	Sep 27, 2002	✘ Oct 3, 2005	<a href="http://www-01.ibm.com/...">http://www-01.ibm.com/...</a>
<input type="checkbox"/>		01.00	5855-U27	IBM	Sep 26, 2008	✘ Apr 30, 2012	<a href="http://www-01.ibm.com/...">http://www-01.ibm.com/...</a>
<input type="checkbox"/>		01.00	5855-W87	IBM	Sep 24, 2010	✘ Apr 30, 2014	<a href="http://www-01.ibm.com/...">http://www-01.ibm.com/...</a>
<input type="checkbox"/>		01.13.00	5894-A01	IBM	Sep 30, 2011	✔ Not Announced	<a href="http://www-01.ibm.com/...">http://www-01.ibm.com/...</a>
<input type="checkbox"/>	+	02.01.01	5848-B33	IBM	Oct 27, 2000	✔ Not Announced	<a href="http://www-01.ibm.com/...">http://www-01.ibm.com/...</a>
<input type="checkbox"/>	+	12.01.00	5855-W70	IBM	May 11, 2012	✔ Not Announced	<a href="http://www-01.ibm.com/...">http://www-01.ibm.com/...</a>
<input type="checkbox"/>	+	01.03.00	5855-103	IBM	Jun 25, 1999	✔ Not Announced	<a href="http://www-01.ibm.com/...">http://www-01.ibm.com/...</a>
<input type="checkbox"/>	+	04.02.00	5855-S71	IBM	Aug 28, 2009	✔ Not Announced	<a href="http://www-01.ibm.com/...">http://www-01.ibm.com/...</a>

Total: 55 Selected: 0

Refresh

Last refresh: Oct 1, 2015, 5:01:16 PM

Close

# Step 6 ...

You can click on Actions, then Export Table Data, then All Data to export your list of SMP/E installed products to a file on your workstation so that you can use spreadsheet functions to manipulate the data or print it. Since you are using lab workstations, please don't do that.

The screenshot shows the IBM z/OS Management Facility interface. The main window displays a table of software instances. An 'Actions' menu is open, showing options like 'Export Table Data' and 'Print Table Data'. The 'Export Table Data' option is expanded, showing 'Current View' and 'All Data'. The table below has columns for Product Name, Release, Messages Filter, Vendor Filter, General Availability Filter, End of Service Filter, and Additi Filter. The table contains several rows of data, including 'Enterprise COBOL for z/OS and OS/390', 'MASTER\_zOS\_R13\_wOther\_Product', and 'Debug Tool V9'. At the bottom, there are buttons for 'Refresh' and 'Close'.

Product Name	Release	Messages Filter	Vendor Filter	General Availability Filter	End of Service Filter	Additi Filter
Enterprise COBOL for z/OS and OS/390	03.02.00		IBM	Sep 30, 2011	Not Announced	<a href="http://bin/ssi/appna">http://bin/ssi/appna</a>
MASTER_zOS_R13_wOther_Product					Not Announced	
MASTER_zOS_R13_wOther_Product					Not Announced	
Enterprise COBOL for z/OS and OS/390	03.02.00		IBM	Sep 24, 2010	Sep 30, 2014	<a href="http://bin/ssi/appna">http://bin/ssi/appna</a>
MASTER_zOS_R13_wOther_Product					Not Announced	
Enterprise COBOL for z/OS and OS/390	03.02.00		IBM	Sep 27, 2002	Oct 3, 2005	<a href="http://bin/ssi/appna">http://bin/ssi/appna</a>
MASTER_zOS_R13_wOther_Product					Not Announced	
Debug Tool V9	09.01.00		IBM	Sep 26, 2008	Apr 30, 2012	<a href="http://bin/ssi/appna">http://bin/ssi/appna</a>
MASTER_zOS_R13_wOther_Product					Not Announced	

You can scroll right

Note: It is common to have the same product installed in multiple software instances. However, these products with announced end of service dates are only installed in one software instance.



# Step 6 ...

This column shows the system where the software instance is accessible from. Unfortunately for the lab you only have access to one local system.

IBM z/OS Management Facility

Welcome x Software Manage... x

Software Management > Products > View Software Instances

### View Software Instances by Product

Software Instances by Product

Actions | Table view: Tree

No filter applied

Product / Software Instance Filter	Product Information File Version Filter	System Filter	Description Filter	Activity Filter	Global Zone CSI Filter	Target Zones Filter	Cate Filter
System Modification Program Extended for z/OS	Sep 12, 2013						
MASTER_SMPEV3.6_WITHOUT_PTFS		LOCAL	Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product without any PTFs.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSM36	
MASTER_SMPEV3.6_WITH_PTFS		LOCAL	Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFs.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TSM38P	
z/OS	Sep 12, 2013						
MASTER_ZOSV1.12		LOCAL	Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains z/OS V1R12 at RSU1105.		ZOSMF.SWDEPLOY.GLOBAL.CSI	TGTZ12	
Enterprise COBOL for z/OS and OS/390	Sep 12, 2013						
MASTER_zOS_R13_w/Other_Product		LOCAL	z/OS V1.13 with over 20 other products to be used during the z/OSMF Software Management Lab		SMLAB01.GLOBAL.CSI	COB320T, DT910T, PLI410T, Z1130T	
Debug Tool V9	Sep 12, 2013						

Refresh Last refresh: Oct 1, 2015, 5:09:29 PM

Close

You can scroll right to see who created and who last modified the software instance

## **Step 7: Deployments**

# Step 7

## View Software Instances by Product

Software Instances by Product

Actions | Table view: Tree

No filter applied

<input checked="" type="checkbox"/>	Product / Software Instance Filter	Release Filter	Product ID Filter	Messages Filter	Vendor Filter	General Availability Filter	End of Service Filter	Additional Product Information Filter
<input checked="" type="checkbox"/>	System Modification Program Extended for z/OS	03.06.00	5655-G44		IBM	Sep 30, 2011	<input checked="" type="checkbox"/> Not Announced	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5655-G44">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5655-G44</a>
<input checked="" type="checkbox"/>	MASTER_SMPEV3.6_WITHOUT_PTFS						<input checked="" type="checkbox"/> Not Announced	
<input checked="" type="checkbox"/>	MASTER_SMPEV3.6_WITH_PTFS						<input checked="" type="checkbox"/> Not Announced	
<input checked="" type="checkbox"/>	z/OS	01.12.00	5694-A01		IBM	Sep 24, 2010	<input checked="" type="checkbox"/> Sep 30, 2014	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5694-A01">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5694-A01</a>
<input checked="" type="checkbox"/>	MASTER_ZOSV1.12						<input checked="" type="checkbox"/> Not Announced	
<input checked="" type="checkbox"/>	Enterprise COBOL for z/OS and OS/390	03.02.00	5655-G53		IBM	Sep 27, 2002	<input checked="" type="checkbox"/> Oct 3, 2005	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5655-G53">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5655-G53</a>
<input checked="" type="checkbox"/>	MASTER_zOS_R13_w/Other_Product						<input checked="" type="checkbox"/> Not Announced	
<input checked="" type="checkbox"/>	Debug Tool V9	09.01.00	5655-U27		IBM	Sep 26, 2008	<input checked="" type="checkbox"/> Apr 30, 2012	<a href="http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5655-U27">http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&amp;subtype=sm&amp;appname=ShopzSeries&amp;htmlfid=897/ENUS5655-U27</a>
<input checked="" type="checkbox"/>	MASTER_zOS_R13_w/Other_Product						<input checked="" type="checkbox"/> Not Announced	

Click on the Software Management 'bread crumb' (again)

Total: 55 Selected: 55

Refresh Last refresh: Oct 1, 2015, 5:09:29 PM

Close

# Step 7 ...

## Select Deployments

Welcome x

Software Mana

### Software Management

Use this task to view details about your software inventory, including related products, features, FMIDs, data sets, deployments, and SYSMODs. [Learn more...](#)

<a href="#">Software Instances</a>	Define your software to z/OSMF; deploy software; generate reports about your software.
<a href="#">Portable Software Instances</a>	Define your portable software instances to z/OSMF.
<a href="#">Products</a>	View a consolidated list of the products included in each software instance.
<a href="#">Deployments</a>	Deploy a software instance, and manage existing deployments.
<a href="#">Categories</a>	Create new categories for your software instances and deployments, and manage existing categories.
<a href="#">Settings</a>	Select the time zone in which to display date and time data. Indicate whether to display or suppress information messages.

# Step 7 ...

You see a complete list of deployments.

## Deployments

To deploy a software instance, create a new deployment by selecting **New** or **Copy** from the Actions menu.

Actions

No filter applied

Name Filter	Description Filter	Activity Filter	Categories Filter	Source Software Instance Filter	Source System Filter	Target Software Instance Filter	Target System Filter	Target Global Zone CSI Filter	Copy DLIBs Filter
<input type="checkbox"/> DEMO_Deployment_S	This is a sample deployment that may be used for demos.	Completed		MASTER_SMPEV3.6_WITH_PTFS	LOCAL	DEMO_SMPEV3.6_WITH_PTFS	LOCAL	ZOSMF.SWDEPLOY.GLOBAL.CSI	
<input type="checkbox"/> SHARA11_Deployment	Excellent lab exercise to demonstrate how to use z/OSMF to deploy SMP/E installed software!!!	Completed		MASTER_SMPEV3.6_WITH_PTFS	LOCAL	SHARA11_SMPEV3R6_WITH_PTF	LOCAL	ZOSMF.SWDEPLOY.SHARA11.GL	

Total: 2 Selected: 0

Last refresh: Oct 1, 2015, 5:13:14 PM local time (Oct 1, 2015, 9:13:14 PM GMT)

To deploy a software instance, create a new deployment by selecting New or Copy from the Actions menu.

Click Actions, then New ...

### Deployments

To deploy a software instance, create a new deployment by selecting New or Copy from the Actions menu.

Description	Activity Filter	Categories Filter	Source Software Instance Filter	Source System Filter	Target Software Instance Filter	Target System Filter
Sample deployment for demos.	Completed		MASTER_SMPEV3.6_WITH_PTFS	LOCAL	DEMO_SMPEV3.6_WITH_PTFS	LOCAL
Client lab exercise to demonstrate how to use MF to deploy SMP/E led software!!!	Completed		MASTER_SMPEV3.6_WITH_PTFS	LOCAL	SHARA11_SMPEV3R6_WITH_PTF	LOCAL

Total: 2 Selected: 0

Refresh

Last refresh: Oct 1, 2015, 5:13:14 PM local time (Oct 1, 2015, 9:13:14 PM GMT)

Close

# The deployment checklist leads you through the new deployment

## Step 7 ...

IBM z/OS Management Facility

Welcome × Software Manage... ×

Software Management ▶ Deployments ▶ Deployment Checklist

### Deployment Checklist

To deploy a software instance, complete the checklist.

#### Checklist

Progress	Step
⇒	1. Specify the properties for this deployment.
	2. Select the software instance to deploy.
	3. Select the objective for this deployment.
	4. Check for missing SYSMODs. <ul style="list-style-type: none"><li>• View missing SYSMOD reports.</li></ul>
	5. Configure this deployment.
	6. Define the job settings. z/OSMF creates the deployment summary and jobs. <ul style="list-style-type: none"><li>• View the deployment summary.</li></ul>
	7. Submit deployment jobs.
	8. Specify the properties for the target software instance.

**After reviewing the information, Click Close**

Close

Note: A separate lab is required to demonstrate how to add a software instance and perform a deployment. Lucky for you there is a z/OSMF Software Deployment Hands-on Lab for you to try at this conference!!! Go ahead and get the handout and try the lab.

# Exercise Review and Wrap-Up

**You now know how to:**

- **Logon to z/OSMF and invoke software management**
- **Add a Software Instance**
- **Change the Software Management specific “Settings”**
- **View Products, Features, and FMIDs for a software instance**
- **View software instance properties**
- **View data sets and UNIX filesystem information for a software instance**
- **Report on the End of Service for multiple software instances**
- **Search multiple software instances for one or more SYSMODs**
- **Generate a missing FIXCAT report for multiple software instances**
- **Generate a missing Critical fix report for multiple software instances**
- **Compare two software instances**
- **Validate a software instance**
- **View products installed in ANY software instance**



**Thank You**

# Additional information

- **z/OS Management Facility website**
  - <http://www-03.ibm.com/systems/z/os/zos/features/zosmf/index.html>
- **IBM z/OS Management Facility Browser Compatibility**
  - [http://www-03.ibm.com/systems/z/os/zos/features/zosmf/browser\\_notes.html](http://www-03.ibm.com/systems/z/os/zos/features/zosmf/browser_notes.html)
- **z/OS Management Facility Publications**
  - <http://www-03.ibm.com/systems/z/os/zos/features/zosmf/moreinfo/>
    - IBM z/OS Management Facility Configuration Guide (SC27-8419)
    - IBM z/OS Management Facility Programming (SC27-8420)
- **z/OS Management Facility Resource Requirements**
  - <http://www-03.ibm.com/support/techdocs/atmastr.nsf/WebIndex/WP101779>
- **z/OS Management Facility Downloads**
  - <http://www-03.ibm.com/systems/z/os/zos/features/zosmf/downloads/>

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