



New z/OSMF Software Management Capabilities

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Agenda



- **Brief Overview of Software Deployment**
- **Recent Enhancements to Software Deployment**
 - Support for unmounted z/OS UNIX file system data sets
 - Support for deployment configuration copy
 - Support for granular control over which users can view and modify deployment task artifacts
- **New Enhancement NOW Available!!!**
 - Software Management
- **Backup**
 - Additional information for unmounted z/OS UNIX file system data set support
 - Additional information for deployment configuration copy
 - Additional information for more granular authority

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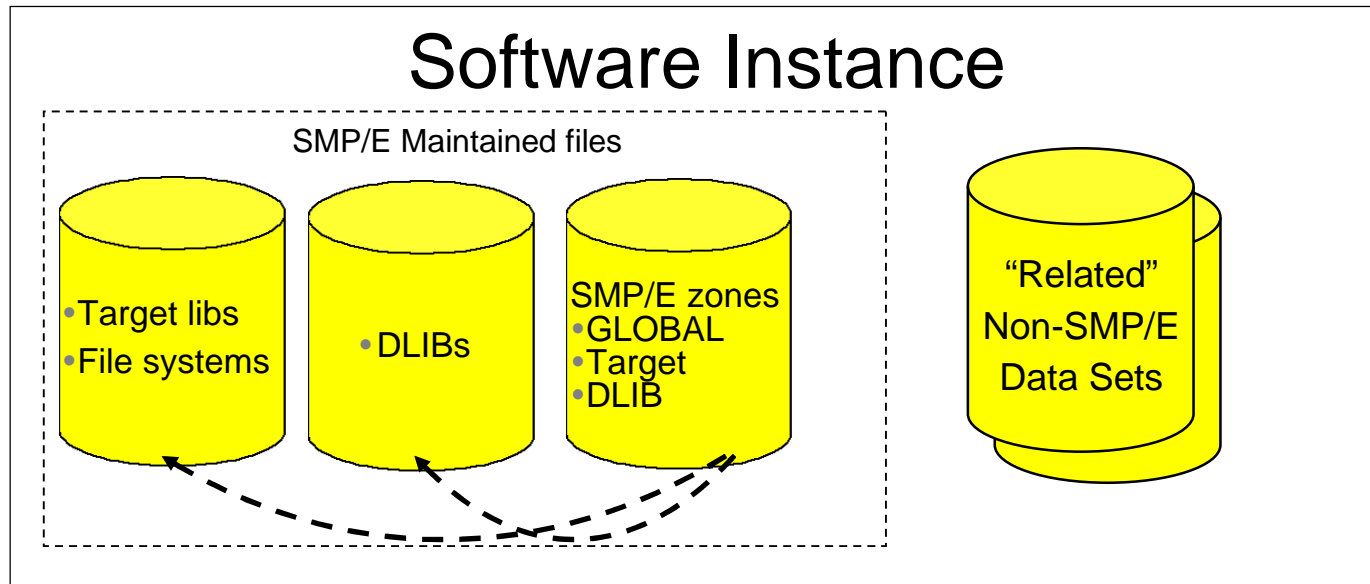


Software Deployment



- **z/OSMF V1.13 introduced a Software Deployment function**
 - Web-based application
 - User interaction is via a browser on a workstation
 - z/OSMF and Software Deployment will be active on one system in a sysplex, allowing access to shared DASD
 - Locally, either on a single system or system-to-system within a sysplex
 - Remotely, system-to-system across a network and multiple sysplexes
 - Introduced a concept of a software instance

Software Instance

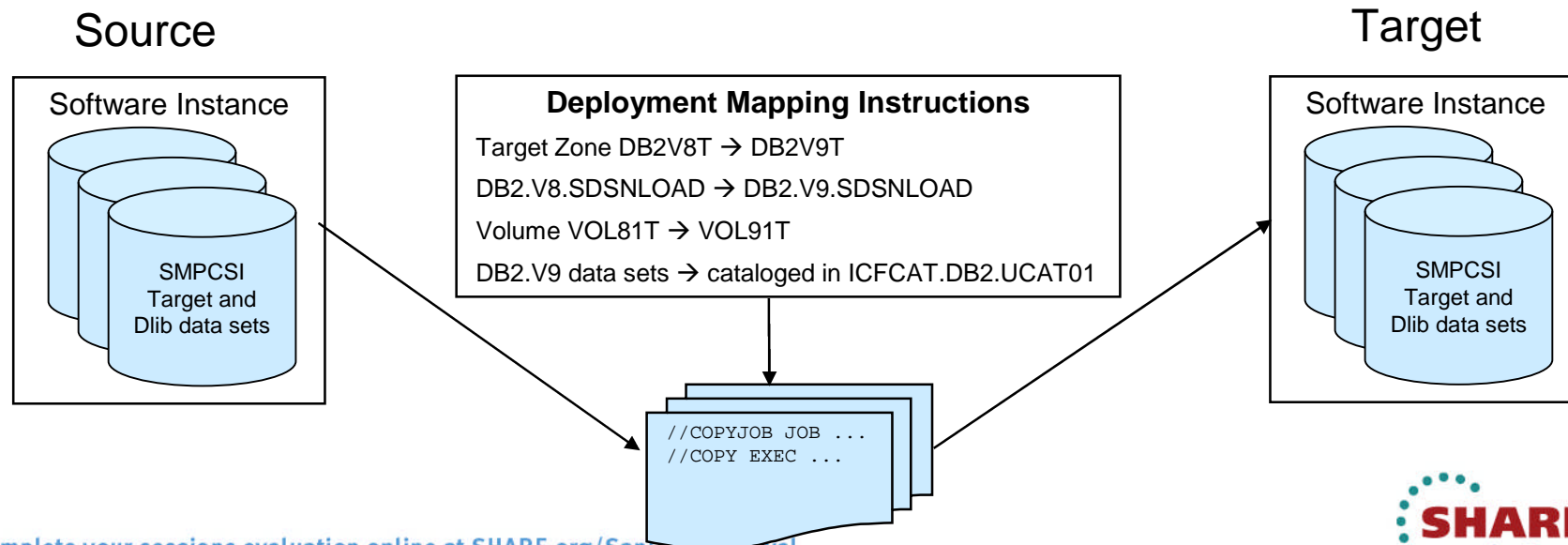


- **For Software Deployment, the primary purpose of a software instance was to identify the data sets to be deployed**
 - Used to describe the SMP/E Global zone and target zone(s) that will be analyzed to identify the data sets to copy.
 - DLIB data sets and the DLIB zone are optional
 - Can also include non-SMP/E managed data sets
 - Other runtime libraries
 - Configuration files and operational data sets
 - Non-SMP/E maintained ISV or user libraries
 - Non-SMP/E maintained zFS or HFS filesystems

Basic Deployment Operation Flow



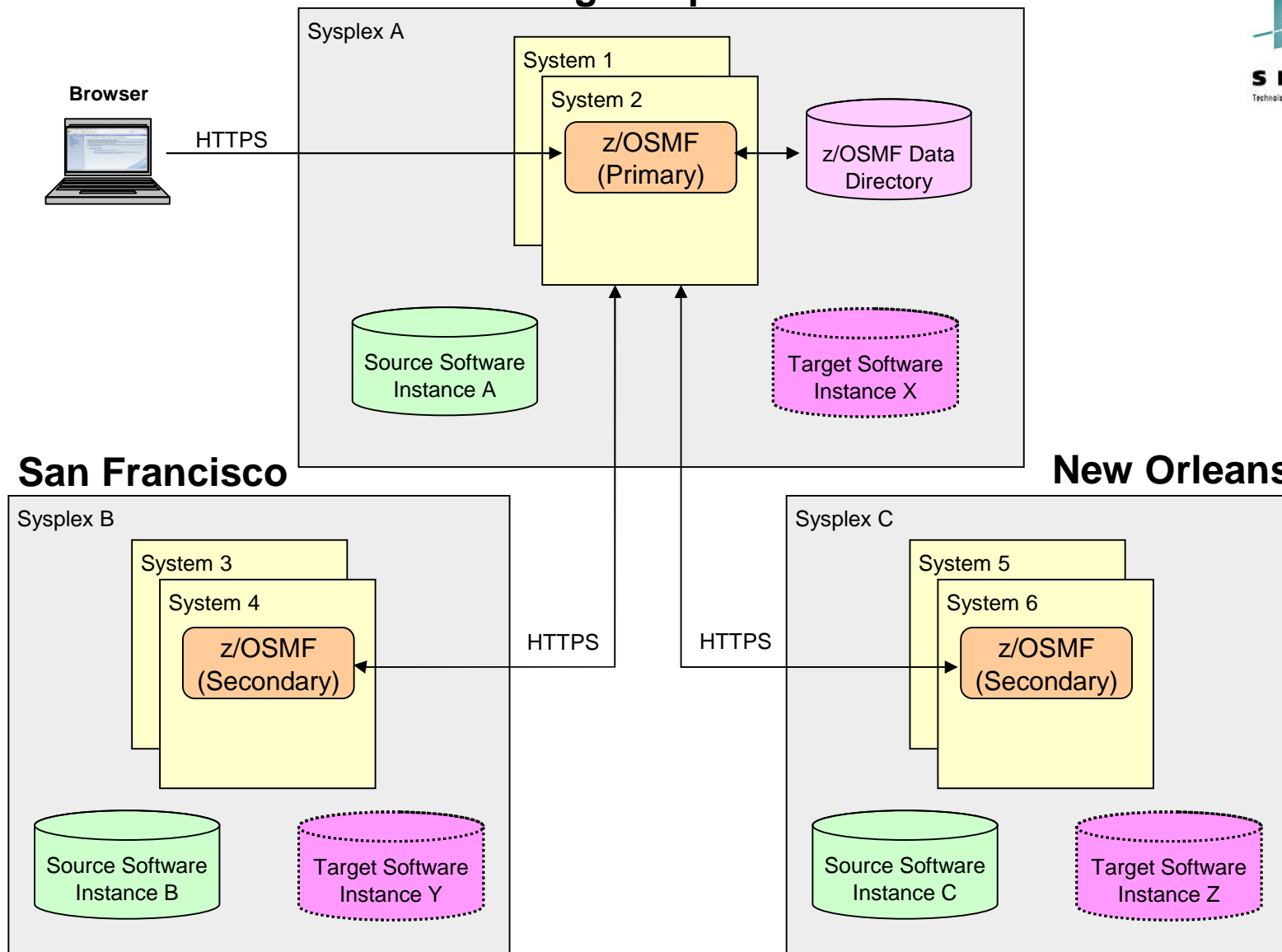
1. Identify a Source Software Instance.
2. Check for missing requisites and possible regressions.
3. Select the deployment objective.
4. Create a Deployment that describes where the source data sets will be copied.
5. Generate Deployment Jobs.
6. Execute generated Jobs to copy the source and create (or replace) a target Software Instance.



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Poughkeepsie



Software instances can be viewed or deployed throughout your enterprise

z/OSMF Software Deployment Summary



- The z/OS Software Deployment function of z/OSMF will provide rigor in the deployment of any SMP/E installed software.
- It will ensure:
 - ALL affected parts are copied
 - The zone(s) is carried forward with the software
- It will help to ensure:
 - Cross system requisites are satisfied (coexistence and preconditioning)
 - Cross product requisites (on the same system) are satisfied
 - Software fixes are not regressed
- Can be used to create a clone for subsequent installation or execution.
- Software Deployment will save user specified information and allow for reuse
 - Subsequent deployment operations of the same source will require little or no user input.
- Local and Remote deployments are supported

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NEW FUNCTION – PTFs UK73699 and U001300



- **Support for Unmounted z/OS UNIX File System Data Sets**

- Initially UNIX file system data sets had to be mounted so the Deployment task of z/OSMF can find the data sets where directories defined by DDDEF entries reside.
- If a data set cannot be found for one or more directories because the data set is not mounted, then the Deployment task generates an error message to identify the directory and does not continue the deployment operation.
- **Now the user is given the opportunity to identify the data sets that contain the subject directories.**

NEW FUNCTION – APAR PM40764 and IO14873

Deployment Copy



- **Allows users to reuse the configuration from a prior completed deployment.**
 - Currently a deployment is a one-time operation.
 - To perform the same deployment later, a user must create a new deployment from scratch
 - The user must supply all the configuration information.
- **With this SPE, z/OSMF will allow a user to make a copy of a prior completed deployment and reuse the information that describes the target of that deployment.**
 - Data set names, volumes, storage classes, catalog state, UNIX directory mount points, and zone names
 - z/OSMF will compare the saved information to the current source software instance and identify any discrepancies or differences
- **z/OSMF reuses specific saved information - making second or subsequent deployments much quicker and easier.**
- **Examples:**
 - Distribute a single software instance to several different systems:
 - Create a deployment from scratch to the first system.
 - Copy the first deployment for the second and subsequent systems.
 - Deploy a software instance today. 6-months later update that instance with PTFs and deploy again:
 - Create a deployment from scratch for the first deployment.
 - 6-months later, copy the first deployment.

Deployment Copy



- **All of the information from the original deployment is copied into the new deployment, but can be changed if desired.**
- **Each step of the new deployment must be visited so the user can verify the default/copied selections.**
 1. A default deployment name is generated using a name suffix algorithm. Description and Categories are copied.
 2. Original source software instance is selected.
 3. Original objective and target system are selected.
 4. Original instances for reporting are selected. New reports must be run.
 5. Original configuration is primed.
 - Zone names, data set names, volumes, storage classes, data set catalog state, volume properties, UNIX data set mount points.
 6. Job card for the user and system is used, not copied from the original deployment.
 7. A default target software instance name is generated using a name suffix algorithm. Description and Categories are copied.

NEW FUNCTION – APAR PM40764 and PM50651

User Authorization



- Allow use of SAF profiles to control which users may access individual objects.
- For example, don't let DB2 sysprogs touch z/OS objects and vice versa. The objects supported are:
 - Software instances
 - Deployments
 - Global zones
 - Categories
- **All objects are visible in the table displays, but actions may not be allowed for selected objects based on a user's authorization.**
 - No authorization checks are performed to populate lists of objects.
- **When a user selects an object and action, z/OSMF will perform an authorization check for the user and action for the selected object before continuing.**
- **Software Deployment will only perform authorization checks if z/OSMF is configured to use SAF mode authorization**
 - Repository mode is not supported for authorization checks
- **The default z/OSMF configuration allows all users full authorization access.**

Complete z/OSMF evaluation online at SHARE.org/SanFranciscoEval



User Authorization...

- z/OSMF SAF authorization uses resources in the ZMFAPLA class
 - New class in z/OS V1.13
- z/OSMF SAF resource names are of the form:
<safPrefix>.ZOSMF.pluginName.taskName<.suffix>
 - safPrefix is defined during WAS OEM configuration, default and typical is BBNBASE
 - pluginName is the name of the plug-in, SOFTWARE_DEPLOYMENT
 - taskName is the name for the task in the Navigator, DEPLOYMENT
 - suffix is additional qualifiers to uniquely identify actions and resources for the plug-in.
- For Software Deployment each object has a unique SAF resource name associated with it of the form:
BBNBASE.ZOSMF.SOFTWARE_DEPLOYMENT.DATA.objectType.objectSuffix
 - DATA separates the resource name space for objects from the name space for actions
 - objectType indicates the type of object:
 - SWI – software instance
 - DEP – deployment
 - GZN – global zone
 - CAT – category
 - objectSuffix is unique for each type of object

User Authorization: Object Name Syntax

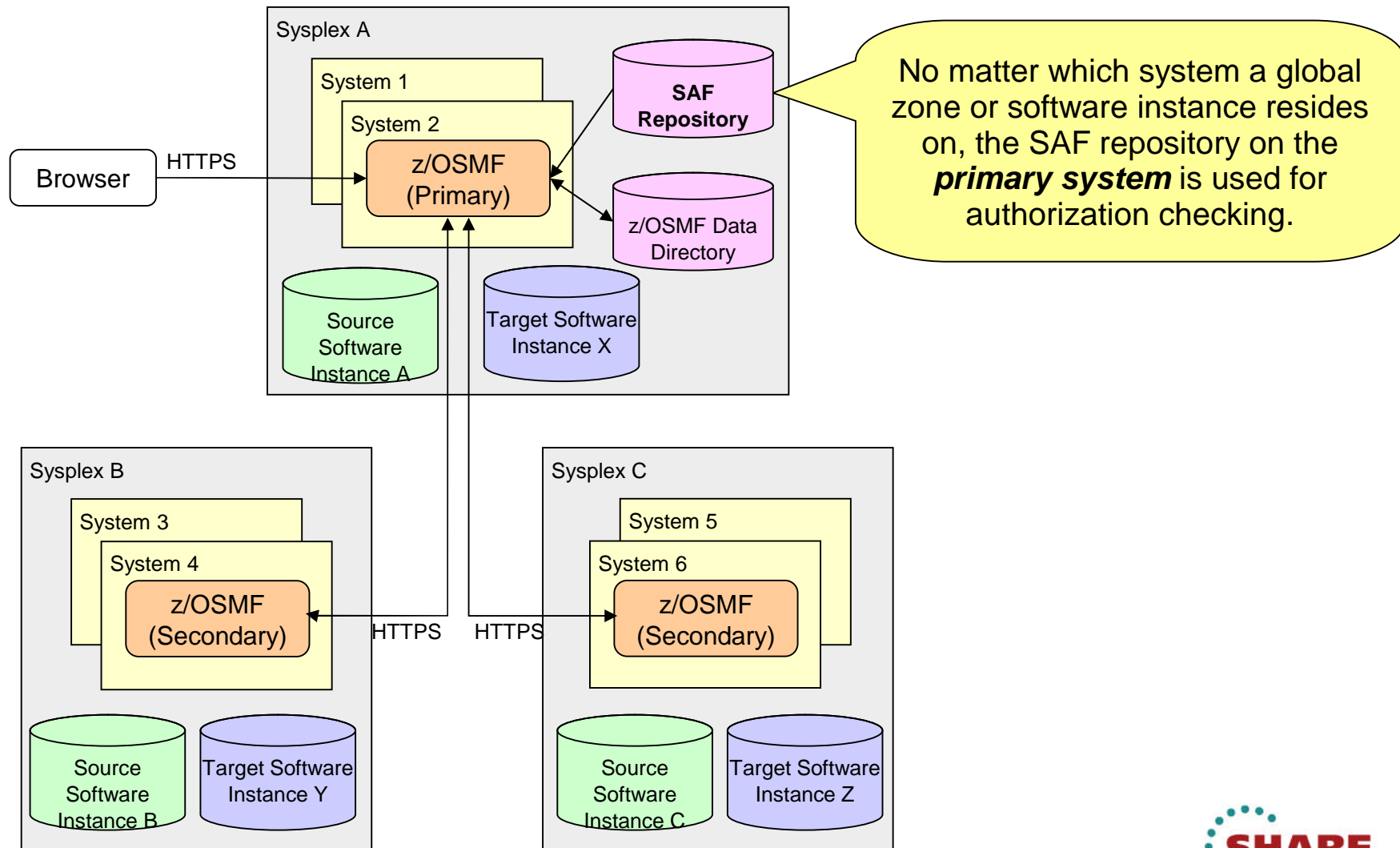


- **Software Deployment object names will be used in SAF resource names.**
- **z/OSMF currently has little or no restrictions on the allowed character set in object names.**
- **However, SAF and TSO have some limitations:**
 - SAF does not support some characters in resource or profile names (ie. blank)
 - Some characters are supported in profile names but are used as generic characters (ie. *, &, %)
 - Some characters and combinations cannot be specified in TSO commands to create SAF profiles (ie. parenthesis)
- **Therefore, Software Deployment object names are now more restrictive.**
 - Ensures object names can be used in SAF resource and profile names.
 - Add and Modify actions will allow **only** supported characters
 - Blank (among other characters) are **no longer supported.**

User Authorization: Hints and Tips

- **SAF resource names and profiles are case sensitive.**
 - Object names and profiles must have matching case in order for a particular profile to be used when checking authorization of an object.
- **Useful RACF commands:**
 - Search for all of the profiles that affect Software Deployment:
`SEARCH ALL CLASS(ZMFAPLA) +
 FILTER(BBNBASE.ZOSMF.SOFTWARE_DEPLOYMENT.**)`
 - List a specific profile:
`RLIST ZMFAPLA BBNBASE.ZOSMF.SOFTWARE_DEPLOYMENT.DATA.** +
AUTHUSER`
 - Or in one fell swoop:
`SEARCH ALL CLASS(ZMFAPLA) +
 FILTER(BBNBASE.ZOSMF.SOFTWARE_DEPLOYMENT) +
 CLIST(RLIST ZMFAPLA ' ' AUTHUSER') NOLIST
EXEC EXEC.RACF`
- **To debug authorization troubles a z/OSMF trace can be helpful.**
 - Resource names and userids for authorization checks are echoed in the trace.

User Authorization: Hints and Tips...

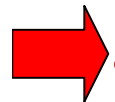


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 - Support for deployment configuration copy
 - Support for granular control over which users can view and modify deployment task artifacts



- **New Enhancement NOW Available!!!**

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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.**
 - z/OSMF PTFs UK79887, UK83841, UK83825, UK83828, UK83833, UK83836, UK83842, and UK83852
 - These PTFs provide additional new function beyond Software Management
 - See <http://www-03.ibm.com/systems/z/os/zos/zosmf/enhancements.html> for more information
 - Installation requires reconfiguration of z/OSMF
 - Requisite z/OS SMP/E PTF UO01422

z/OSMF V1.13 Software Management ...



- **In addition to deploying a software instance, the Software Management task will:**
 - Allow inspection of 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.

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New/Renamed Software Management selection

- Welcome
- + Configuration
- + Links
- + Performance
- + Problem Determination
- Software
 - Software Management
- + z/OS Classic Interfaces
- + z/OSMF Administration
- + z/OSMF Settings

Refresh

Welcome to IBM z/OS Management Facility

IBM® z/OS® Management Facility (z/OSMF) provides a framework for managing various aspects interface. By streamlining some traditional tasks and automating others, z/OSMF can help to simplify management.

To learn more about z/OSMF, visit the links in the Learn More section.

To start managing 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](#)

**You see a list of objects in your software inventory.
You can click on a link to view details those objects**

Welcome

[Help](#)

Software Management

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

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 data. Indicate whether to display or suppress information messages.

The Software Management task, previously named the Deployment 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.

Select Software Instances to view details about software instances

[Help](#)

Software Management

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

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 data. Indicate whether to display or suppress information messages.

You will see a list of software instances already defined

Software Instances

Actions

Name	System	Messages	Description	Activity	Global Zone CSI	Target
Filter	Filter	Filter	Filter		Filter	
<input type="checkbox"/> MASTER_SMPEV3.6_WITH_PTF S	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.CS	TSMF
<input type="checkbox"/> MASTER_SMPEV3.6_WITHOUT_PTF S	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.CS	TSMF
<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.CS	TGTZ
<input type="checkbox"/> DEMO_SMPEV3.6_WITH_PTF S	LOCAL	IZUD809I	Completed demo software instance, of SMP/E V3.6 with PTFs.		ZOSMF.SWDEPLOY.GLOBAL.CS	TSMF
<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		SMLAB01.GLOBAL.CSI	COB PLI41

Total: 5, Selected: 0

Refresh

Last refresh: Jan 11, 2013 9:31:58 AM

Close

You can scroll right

You will now see information on the target zones defined in the software instance, and any "category" associated with the software instance.

Software Management

Software Instances

Actions ▼ Match: All filters

Name	System	Target Zones	Categories	Product, Feature, and FMID Information Retrieved (Local)
Contains "Master"	Filter			Filter
<input type="checkbox"/> MASTER_SMPEV3.6_WITH_PTFS	LOCAL	TSMP36P		Jan 14, 2013 10:51:58 AM
<input type="checkbox"/> MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL	TSMP36		Jan 9, 2013 4:13:16 PM
<input type="checkbox"/> MASTER_ZOSV1.12	LOCAL	TGTZ12		Jan 9, 2013 4:13:39 PM
<input type="checkbox"/> MASTER_zOS_R13_w/Other_Product	LOCAL	COB320T, DT910T, PLI410T, Z1130T		Jan 9, 2013 5:39:55 PM

You can scroll right, again

You will see information on who created the software instance, when it was last modified, and by whom.

Software Management > Software Instances

Software Instances

Actions Match: All filters

Name	System	Product, Feature, and FMID Information Retrieved (Local)	Last Modified (Local)	Modified By	Created (Local)	Created By
Contains "Master"	Filter	Filter	Filter	Filter	Filter	Filter
<input type="checkbox"/> MASTER_SMPEV3.6_WITH_PTFS	LOCAL	Jan 14, 2013 10:51:58 AM	Jun 29, 2012 5:16:51 PM	MFUSR20	Jun 29, 2012 1:32:26 PM	MFUSR14
<input type="checkbox"/> MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL	Jan 9, 2013 4:13:16 PM	Jun 29, 2012 5:18:24 PM	MFUSR20	Jun 29, 2012 1:34:31 PM	MFUSR14
<input type="checkbox"/> MASTER_ZOSV1.12	LOCAL	Jan 9, 2013 4:13:39 PM	Jun 29, 2012 5:11:00 PM	MFUSR20	Jun 29, 2012 1:36:53 PM	MFUSR14
<input type="checkbox"/> MASTER_zOS_R13_w/Other_Product	LOCAL	Jan 9, 2013 5:39:55 PM	Jan 9, 2013 5:39:53 PM	GDAYNES	Jan 7, 2013 1:51:35 PM	GDAYNES

Welcome x Software Man... x

You can perform Actions on selected software instances

Software Management > Software Instances

Software Instances

Actions ▾

Name	System	Messages	Description	Activity	Global Zone CSI	Target
Filter	Filter	Filter	Filter		Filter	
<input type="checkbox"/> MASTER_SMPEV3.6_WITH_PTF S	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.CS	TSMF
<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.CS	TSMF
<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.CS	TGTZ
<input type="checkbox"/> DEMO_SMPEV3.6_WITH_PTFS	LOCAL	IZUD809I	Completed demo software instance, of SMP/E V3.6 with PTFs.		ZOSMF.SWDEPLOY.GLOBAL.CS	TSMF
<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		SMLAB01.GLOBAL.CSI	COB: PLI41

Total: 5, Selected: 0

Refresh Last refresh: Jan 11, 2013 9:31:58 AM

Close

Welcome x Software Man... x

Software Management ▶ Software Instances

Software Instances

Actions when a single Instance is selected

Actions ▼ Match: All filters

Name	Activity	Global Filter
MAST	ZOS	
MAST	ZOS	
MAST	ZOS	
MAST	SML	

- View ▶ Properties
 - Products, Features, and FMIDs
 - Data Sets
 - Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the
- 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...
- Modify Filters...
- Hide Filter Row
- Clear Filters
- Modify Sort...
- Clear Sorts

Actions that are not valid (and therefore not operational) are grayed out and not selectable.

Software Management ▶ Software Instances

Software Instances

Actions when multiple instances are selected

The screenshot shows the 'Software Management' interface with a table of software instances. The 'Actions' menu is open, displaying a list of actions. The 'View' action is selected, and its sub-menu is also open, showing options like 'Properties', 'Products, Features, and FMIDs', and 'Data Sets'. The 'End of Service' sub-menu is also open, showing options like 'Software Instance Validation', 'Missing Critical Service', and 'Missing FIXCAT SYSMODs'. The 'Add...' and 'Show Hidden Maintenance Reports' actions are grayed out. The table below the menu shows several instances with the name 'MAST' and various details.

Name	Activity	Global Filter
MAST	ZOS	
MAST	ZOS	
MAST	ZOS	
MAST	SML	

Let's look at each
of the capabilities
in more detail

Welcome x Software Man... x

Software Management ▶ Software Instances

Software Instances

Viewing Software Instance Properties is identical to existing Software Deployment capabilities

Actions ▼ Match: All filters

Name	Activity	Global Filter
MAST		ZOS
MAST		ZOS
MAST		ZOS
MAST		SML

View Properties
Products, Features, and FMIDs
Data Sets

Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFs.

Source Software Instance for 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.

z/OS V1.13 with over 20 other products to be used during the z/OSMF Software Management Lab

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

Software

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 0 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

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.

Software Management > View SMP/E Zones

View MASTER_ZONE Other_Product

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

Global Zones

CSI Data Set	System	Description	Activity	Last Modified (Local)	Modified By	L
<input type="radio"/> ZOSMF.SWDEPLOY.GLOBAL.CSI	LOCAL	Master GLOBAL CSI for Software Deployment Lab		Jan 5, 2012 10:32:12 AM	MFUSR01	
<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: 2, Selected: 1

Target Zones:

COB320T
DT910T
PLI410T
Z1130T

Close

The non-SMP/E Managed Data Set tab shows a list of user defined data sets associated with this software instance. They will be included in a software deployment of this instance.

Software Management ▶ Software Instances ▶ View Software Instance

View MASTER_zOS_R13_w/..._Product

General

SMP/E Zones

Non-SMP/E Managed Data Sets

Data Sets

Actions ▼

Name	Volume
Filter	Filter
SYS1.PARMLIB	SHAR03
SYS1.PROCLIB	SHAR03

Software Instances

You can view the Products, Features, and FMIDs that comprise one or more software instances

Actions ▼ Match: All filters

Name	Activity	Global Zone CSI	Target
Starts		Filter	
MASTI	Source Software Instance for the	ZOSMESWDEPLOYGLOBAL.CS	TSM36
			SMP36
			GTZ12
			OB321
			L410T

View
Modify
Open Deployments
Copy...

Properties
Products, Features, and FMIDs
Data Sets

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.

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

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

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
<input type="checkbox"/> MASTER_SMPEV3.6_WITH_PTFS	LOCAL		Jan 14, 2013 10:51:58 AM			
<input type="checkbox"/> System Modification Program Extended for z/OS				03.06.00	5655-G44	IBM
<input type="checkbox"/> SMP/E V3 Base						
<input type="checkbox"/> HBCNC00						
<input type="checkbox"/> HBCND0B						
<input type="checkbox"/> HMP1J00						
<input type="checkbox"/> MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL		Jan 9, 2013 4:13:16 PM			
<input type="checkbox"/> System Modification Program Extended for z/OS				03.06.00	5655-G44	IBM
<input type="checkbox"/> SMP/E V3 Base						
<input type="checkbox"/> HBCNC00						
<input type="checkbox"/> HBCND0B						
<input type="checkbox"/> HMP1J00						
<input type="checkbox"/> MASTER_ZOSV1.12	LOCAL		Jan 9, 2013 4:13:39 PM			

Total: 1784, Selected: 0

Refresh

Last refresh: Jan 14, 2013 5:00:54 PM

Close

You can scroll right

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

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

Software Instance / Product / Feature / FMID	System	General Availability	End of Service	Additional Product Information	Product Information File Version	FMID Description	FMID Target Zones
Filter	Filter	Filter	Filter	Filter	Filter	Filter	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	http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&subtype=sm&apname=ShopzSeries&htmlfid=897/ENUS5655-G44	Jan 5, 2013		
<input type="checkbox"/> SMP/E V3 Base							
<input type="checkbox"/> HBCNC00							TSMP36P
<input type="checkbox"/> HBCND0B							TSMP36P
<input type="checkbox"/> HMP1J00							TSMP36P
<input type="checkbox"/> MASTER_SMPEV3.6_WITHOUT_PTFS	LOCAL						
<input type="checkbox"/> System Modification Program Extended for z/OS		Sep 30, 2011	<input checked="" type="checkbox"/> Not Announced	http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&subtype=sm&apname=ShopzSeries&htmlfid=897/ENUS5655-G44	Jan 5, 2013		
<input type="checkbox"/> SMP/E V3 Base							
<input type="checkbox"/> HBCNC00						SMP/E Planning and Migration Assistant Software Info Base	TSMP36

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

You can scroll right, again

Total: 1784, Selected: 0

Refresh Last refresh: Jan 14, 2013 5:00:54 PM

Close

- 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: July 12, 2011.

- Related links
- [Subscribe to IBM](#)

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- ↓ [Technical Description](#)
- ↓ [Planning Information](#)
- ↓ [Security, Auditability, and Control](#)

Product Life Cycle Dates

Program Number	VRM	Announced	Available	Marketing Withdrawn	Service Discontinued
5655-G44	3.06.0	2011/07/12	2011/09/30	-	-
5655-G44	3.05.0	2008/08/05	2008/09/26	-	-
5655-G44	3.04.0	2005/07/26	2005/09/30	2008/09/26	2010/09/30
5655-G44	3.03.0	2004/08/10	2004/09/24	2005/09/30	2007/09/30
5655-G44	3.02.0	2003/05/13	2003/05/30	2004/09/24	2007/09/30
5655-G44	3.01.0	2001/09/11	2001/10/26	2003/05/30	2007/03/31

Scrolling right again shows FMID description and the target zones where the FMID is installed. As with all z/OSMF tables, you can specify the order in which the columns appear (or if any are hidden)

Software Management

View Products, Features, and FMIDs

Products, Features, and FMIDs by Software Instance

Actions ▼ Table view: Tree

Software Instance / Product / Feature / FMID Filter	System Filter	Product Information File Version Filter	FMID Description Filter	FMID Target Zones Filter
<input type="checkbox"/> <input type="checkbox"/> MASTER_zOS_R13_w/Other_Product	LOCAL			
<input type="checkbox"/> <input type="checkbox"/> Enterprise COBOL for z/OS and OS/390		Jan 5, 2013		
<input type="checkbox"/> <input type="checkbox"/> COBOL Alt Function				
<input type="checkbox"/> <input type="checkbox"/> H26L320			IBM ENTERPRISE COBOL FOR Z/OS AND OS/390 BASE	COB320T
<input type="checkbox"/> <input type="checkbox"/> J26L32H			IBM ENTERPRISE COBOL FOR Z/OS AND OS/390 HFS	COB320T
<input type="checkbox"/> <input type="checkbox"/> J26L321			IBM ENTERPRISE COBOL FOR Z/OS AND OS/390 ENU	COB320T
<input type="checkbox"/> <input type="checkbox"/> J26L322			IBM ENTERPRISE COBOL FOR Z/OS AND OS/390 JPN	COB320T
<input type="checkbox"/> <input type="checkbox"/> Cobol Alt Function JPN				
<input type="checkbox"/> <input type="checkbox"/> H26L320			IBM ENTERPRISE COBOL FOR Z/OS AND OS/390 BASE	COB320T

Total: 286, Selected: 0

View Products, Features, and FMIDs

Products, Features, and FMIDs by Software Instance

Actions | Table view: Tree

Property	Messages	Product, Feature, and FMID Information Retrieved (Local)	Release	Product ID
		Filter	Filter	Filter
		Jan 9, 2013 5:39:55 PM		

By selecting a software instance, you can then “drill down” in that software instance and perform an Action, such as view data sets. This capability is not available outside a software deployment today!

You can use the View Data Sets page in the Software Management task to identify all the data sets included in the software instance. The data sets included in the software instance are divided into two groups

- SMP/E managed – A SMP/E managed data set is dynamically discovered based on definitions in the target (and optionally DLIB) zones.
- non-SMP/E managed - A non-SMP/E managed data set was user specified when the software instance was defined or modified.

You can use this information to determine what will be deployed during a deployment, to identify which data sets will be affected if a product is updated or removed, and to determine whether the data sets conform to your installation's policies for naming conventions, placements, and so on.

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 shows a software management interface with a table of data sets. A dialog box is overlaid on the table, displaying a progress indicator at 1% and a 'Cancel' button. A yellow callout box points to the dialog box with the text: 'Pop-up window with a progress indicator to alert you that this might take a few minutes, and allow you to cancel'.

Software Instance / Product / Feature / FMID	System	Messages	Product, Feature, and FMID Information Retrieved (Local)	Release	Product ID	Vendor	General Av
Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
MASTER_zOS_R13_w/Other_Product	LOCAL		Jan 9, 2013 5:39:55 PM				
Enterprise COBOL for z/OS and OS/390				03.02.00	5655-G53	IBM	Sep 27, 2002
COBOL Alt Func							
H26L320							
J26L32H							
J26L321							
J26L322							
Cobol Alt Function JPN							
H26L320							
J26L32H							

Total: 286, Selected: 286

Refresh Last refresh: Jan 14, 2013 11:02:51 AM

Close

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

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

Software Management > Software Inst... > View Data Sets

View Data Sets

Selected software instance: MASTER_zOS_R13_w/Other_Product on sys

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

Actions ▼

Data Set Name	Messages	Zone Names	Volumes	Data Set Type	RECFM	LRECL	BLKSIZE	Tracks	% Used	Extents
Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
ABJ.H09F210.AABJCLST		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	7	100	1
ABJ.H09F210.AABJLCP		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	57	100	1
ABJ.H09F210.AABJMLIB		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	1	100	1
ABJ.H09F210.AABJMOD1		Z1130D, Z1130T	SHAR02	PDS	U		32760	13	100	1
ABJ.H09F210.AABJPLIB		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	11	100	1
ABJ.H09F210.AABJSAM1		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	10	100	1
ABJ.H09F210.AABJSAM2		Z1130D, Z1130T	SHAR02	PDS	VB	1028	27998	32	100	1
ABJ.H09F210.AABJSLIB		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	3	100	1
ABJ.H09F210.AABJTLIB		Z1130D, Z1130T	SHAR02	PDS	FB	80	27920	1	100	1
ABJ.H09F210.SABJCLST		Z1130T	SHAR01	PDS	FB	80	27920	7	100	1
ABJ.H09F210.SABJLCP		Z1130T	SHAR01	PDS	FB	80	27920	57	100	1
ABJ.H09F210.SABJMLIB		Z1130T	SHAR01	PDS	FB	80	27920	1	100	1
ABJ.H09F210.SABJMOD1		Z1130T	SHAR01	PDS	U		32760	17	100	1
ABJ.H09F210.SABJPLIB		Z1130T	SHAR01	PDS	FB	80	27920	11	100	1
ABJ.H09F210.SABJSAM1		Z1130T	SHAR01	PDS	FB	80	27920	10	100	1
ABJ.H09F210.SABJSAM2		Z1130T	SHAR01	PDS	VB	1028	27998	32	100	1
Total: 1173										

You can use filters to identify conforming/non-conforming

1. Data set names
2. Data set placement, possibly based on data set type
3. Data sets with more than one extent

Close

For example, you can set a filter on the Extents column to easily identify data sets with more than one extent

View Data Sets

Selected software instance: MASTER_zOS_R13_w/Other_Product on system LOCAL

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

Actions ▾

Data Set Name	Messages	Zo
Filter	Filter	Filter
ABJ.H09F210.AABJCLST		Z111
ABJ.H09F210.AABJLCP		Z111
ABJ.H09F210.AABJMLIB		Z111
ABJ.H09F210.AABJMOD1		Z111
ABJ.H09F210.AABJPLIB		Z111
ABJ.H09F210.AABJSAM1		Z111
ABJ.H09F210.AABJSAM2		Z111
ABJ.H09F210.AABJSLIB		Z111
ABJ.H09F210.AABJTLIB		Z111
ABJ.H09F210.SABJCLST		Z111
ABJ.H09F210.SABJLCP		Z111
ABJ.H09F210.SABJMLIB		Z111
ABJ.H09F210.SABJMOD1		Z111
ABJ.H09F210.SABJPLIB		Z111
ABJ.H09F210.SABJSAM1		Z111
ABJ.H09F210.SABJSAM2		Z111
Total: 1173		

Modify Filters

Match: Match case

Columns: Filters

- ▾ Volumes
- ▾ Data Set Type
- ▾ RECFM
- ▾ LRECL
- ▾ BLKSIZE
- ▾ Tracks
- ▾ % Used
- ▾ Extents

Condition: Value:

OK Cancel Help

LRECL	BLKSIZE	Tracks	% Used	Extents
Filter	Filter	Filter	Filter	Filter
80	27920	7	100	1
80	27920	57	100	1
80	27920	1	100	1
	32760	13	100	1
80	27920	11	100	1
80	27920	10	100	1
1028	27998	32	100	1
80	27920	3	100	1
80	27920	1	100	1
80	27920	7	100	1
80	27920	57	100	1
80	27920	1	100	1
	32760	17	100	1
80	27920	11	100	1
80	27920	10	100	1
1028	27998	32	100	1

Close

With the filter set, you can easily see the 10 (out of 1173) 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.

SMP/E Managed Data Sets

Non-SMP/E Managed Data Sets

Actions ▼ Match: All filters

Data Set Name	Messages	Zone Names	Volumes	Data Set Type	RECFM	LRECL	BLKSIZE	Tracks	% Used	Extents
Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	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, Z1130T	SHAR03	PDSE	U		32760	2974	90	2
SYS1.ANFSLIBE		Z1130D, Z1130T	SHAR03	PDSE	U		32760	254	90	2
SYS1.SHASLNKE		Z1130T	SHAR01	PDSE	U		32760	94	89	2
SYS1.SIEALNKE		Z1130T	SHAR01	PDSE	U		32760	3135	90	2
SYS1.SIEAMIGE		Z1130T	SHAR01	PDSE	U		32760	4	72	2
TCPIP.AEZAMODS		Z1130D, Z1130T	SHAR03	PDSE	U		32760	3364	90	2
TCPIP.SEZALOAD		Z1130T	SHAR01	PDSE	U		32760	2740	90	2
TIVOLI.TKANMODP		Z1130T	SHAR01	PDSE	U		32760	277	89	2

Total: 1173, Filtered: 10

Close

The Non-SMP/E Managed Data Sets tab shows the data set attributes (unlike the View Properties tab).

Software Management ▶ Software Instances ▶ View Products, Features, and FMIDs ▶ View Data Sets

View Data Sets

Selected software instance: MASTER_zOS_... product on system LOCAL

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

Actions ▼

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

Total: 2

Close

Software Instances

Actions Match: All filters

Name	Description	Activity	Global Zone CSI	Target
Contai	Filter		Filter	
<input checked="" type="checkbox"/> MASTI S	Source software instance for the z/OS SMP Software Deployment Lab. This instance contains the		ZOSMF.SWDEPLOY.GLOBAL.CS TSMPI	
<input checked="" type="checkbox"/> MASTI _PTFS			ZOSMF.SWDEPLOY.GLOBAL.CS TSMPI	
<input checked="" type="checkbox"/> MASTI			ZOSMF.SWDEPLOY.GLOBAL.CS TGTZ1	
<input checked="" type="checkbox"/> M	Lab. This instance contains z/OS V1R12 at RSU1105.			DB3: 1410

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...
Modify Filters...

End of Service
Software Instance Validation
Missing Critical Service
Missing FIXCAT SYSMODs
SYSMOD Search
Software Instance Comparison...

You can select the End of Service Report

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

Welcome x Software Man... x

Software Management > Software Instances > Maintenance Reports

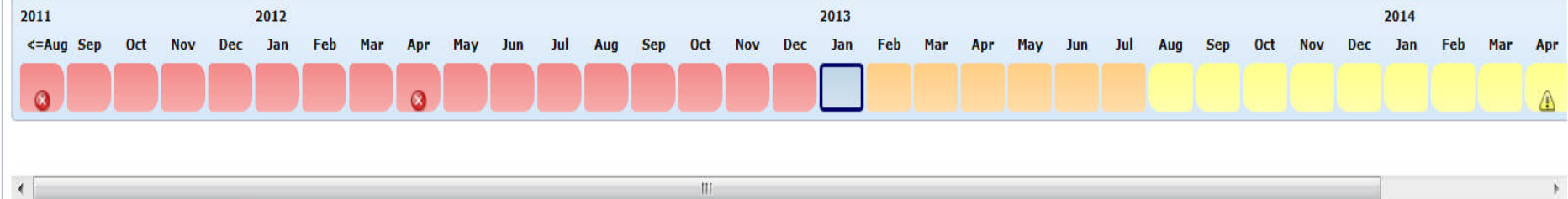
Help

Maintenance Reports

End of Service x

Timeline

View Legend



Scrollable timeline

The timeline contains 36 bars, which represent the following months:

- **Past Months.** Seventeen bars represent the months that occurred before the current month.
- **Current Month.** One bar represents the month in which the current date occurs.
- **Near Future Months.** Six bars represent the months that will occur within six months after the current month.
- **Distant Future Months.** Twelve bars represent the months that will occur more than six months after the current month.

If the end of service date for a product occurs within the months included in the timeline, a status icon is displayed for that product indicating

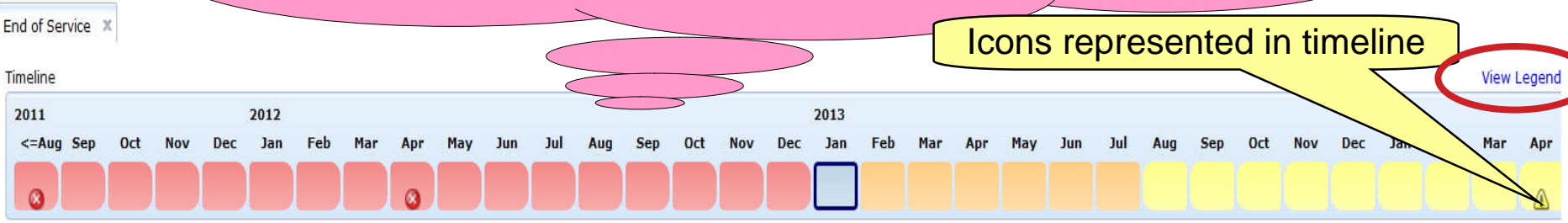
- The end of service date has passed.
- The end of service date equals the current date or will occur within six months of the current date.
- The end of service date will occur more than six months after the current date.

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

Icons represented in timeline

View Legend

Legend to describe calendar colors and icons



Retrieve End of Service Information

Software Instances by Product

Product / Software Instance	Release	Product ID	End of Service	Additional Product Information	Product Information File Version
Enterprise COBOL for z/OS and OS/390	03.02.00	5655-G53	Oct 3, 2005	http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&subtype=sm&appname=ShopzSeries&htmlfid=897/ENUS5655-G53	Jan 5, 2013
Debug Tool V9	09.01.00	5655-U27	Apr 30, 2012	http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&subtype=sm&appname=ShopzSeries&htmlfid=897/ENUS5655-U27	Jan 5, 2013
Enterprise PL/I V4	04.01.00	5655-W67	Apr 30, 2014	http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&subtype=sm&appname=ShopzSeries&htmlfid=897/ENUS5655-W67	Jan 5, 2013
z/OS	01.13.00	5694-A01	Not Announced	http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&subtype=sm&appname=ShopzSeries&htmlfid=897/ENUS5694-A01	Jan 5, 2013
AFP FONT COLLECTION FOR S/390	02.01.01	5648-B33	Not Announced	http://www-01.ibm.com/common/ssi/cgi-	Jan 5, 2013

View 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

IBM does not encourage you to run products beyond their end of service date. In fact you can use this function to assist in your planning to complete your upgrade prior to products reaching their end of service date.

Welcome x Software Man... x

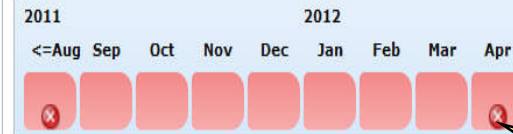
Software Management > Software Instances > Maintenance Reports

Help

Maintenance Reports

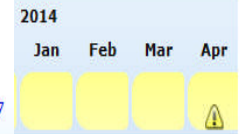
End of Service x

Timeline



Product: Debug Tool V9
 End of service: Apr 30, 2012
 Release: 09.01.00
 Product ID: 5655-U27
 Vendor: IBM
 Announcement: <http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&subtype=sm&appname=ShopzSeries&htmlfid=897/ENUS5655-U27>

View Legend



Retrieve End of Service Information

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

Software Instances by Product

Actions Table view: Tree

Product / Software Instance	Release	Product ID	Messages	Vendor	General Availability	End of Service	Additional Product Information	Product Information File Version
Enterprise COBOL for z/OS and OS/390	03.02.00	5655-G53		IBM	Sep 27, 2002	Oct 3, 2005	http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&subtype=sm&appname=ShopzSeries&htmlfid=897/ENUS5655-G53	Jan 5, 2013
Debug Tool V9	09.01.00	5655-U27		IBM	Sep 26, 2008	Apr 30, 2012	http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&subtype=sm&appname=ShopzSeries&htmlfid=897/ENUS5655-U27	Jan 5, 2013
Enterprise PL/I V4	04.01.00	5655-W67		IBM	Sep 24, 2010	Apr 30, 2014	http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&subtype=sm&appname=ShopzSeries&htmlfid=897/ENUS5655-W67	Jan 5, 2013
z/OS	01.13.00	5694-A01		IBM	Sep 30, 2011	Not Announced	http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&subtype=sm&appname=ShopzSeries&htmlfid=897/ENUS5694-A01	Jan 5, 2013
AFP FONT COLLECTION FOR S/390	02.01.01	5648-B33		IBM	Oct 27, 2000	Not Announced	http://www-01.ibm.com/common/ssi/cgi-	Jan 5, 2013

Total: 50, Selected: 0

Refresh Last refresh: Jan 9, 2013 4:18:49 PM

Close Hide

Select Product Information File

A product information file contains information about one or more products, such as the product announce date, general availability date, and end of service date. Use the **Retrieve** contents of a product information file into z/OSMF.

Product Information Files

File	Description	Version	Activity	HTTP Proxy	Last Retrieved (Local)	Retrieved By
Filter	Filter	Filter	Filter	Filter	Filter	Filter
<input type="checkbox"/> http://public.dhe.ibm.com/services/zosmf/JSONs/IBMPProductEOS.txt	This product information file contains details about IBM System z® software.					
<input type="checkbox"/> D:\SLEODSEFILE.D120301	Retrieve form a data set.	Mar 1, 2012			Aug 23, 2012 11:15:09 PM	DEBUG41
<input type="checkbox"/> http://9.17.248.112/services/zosmf/JSONs/IBMPProductEOS.txt	Retrieve from URL.					

You can use the Select Product Information File page to select the product information file from which to retrieve information for your products. You can also use this page to add, modify, view, and remove product information files. By default, the product information file that IBM supplies for System z software is provided.

Total: 3, Selected: 0

Last refresh: Sep 7, 2012 3:57:30 PM local time (Sep 7, 2012 7:57:30 PM GMT)

Welcome x Software Man... x

Software Management > Software Instances > Maintenance Reports

Maintenance Reports

SYSMOD Search x Missing FIXCAT SYSMODs x Missing Critical Software Instance Comparison x Software Instance Va

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

Actions Table view: Tree

- View
 - End of Service
 - Software Instance Validation**
 - Missing FIXCAT SYSMODs
 - SYSMOD Search
 - Software Instance Comparison...

Software Instance	System	HOLDDATA	Target Zones	Resolving SYSMODs Received in Global Zone
MISSING	LOCAL	Received (GMT)	Filter	Filter
		January 16, 2012 23:46		
		January 16, 2012		

Close Hide

You can select Software Instance Validation

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

Maintenance Reports

SYSMOD Search x Missing FIXCAT SYSMODs x Missing Critical Service x Software Instance Comparison x Software Instance Validation 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

Software Instance / FMID / Held SYSMOD / Missing APAR	System	HOLDDATA Received (GMT)	Target Zones	Resolving SYSMODs Received in Global Zone	Resolving SYSMODs Not in Global Zone	Hold Class
Filter	Filter	Filter	Filter	Filter	Filter	Filter
<input type="checkbox"/> + MASTER_SMPEV3.6_WITHOUT_PTF						
<input type="checkbox"/> + MASTER_ZOSV1.12						
<input checked="" type="checkbox"/> + MASTER_zOS_R13_w/Other_Product						

Validating software instance "MASTER_zOS_R13_w/Other_Product". This request might take several minutes to complete.

11%

Cancel

Progress indicator, you can cancel the request

Total: 149, Selected: 61

Refresh Last refresh: Jan 14, 2013 6:35:54 PM

Close Hide

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 ...

Maintenan

SYSMOD Search x Missing FIXCAT SYSMODs x Missing Critical Service x Software Instance Validation x Software Instance Vali

Selected software instance: MASTER_zOS_R13_w/Other_Product on system LOCAL
Date validated: Jan 14, 2013 7:06:54 PM (Local)

Errors

Message ID	Message Text	Data Set
<input type="checkbox"/> GIM70564E	LMOD ABJDBG was not found in data set DT910.SABJMOD1 on volume SHAR01 from DDDEF entry SABJMOD1 in TARGET zone DT910T.	DT910.SA
<input type="checkbox"/> 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
<input type="checkbox"/> GIM70562E	SAMP IBMZCPLG was not found in data set PLI410.SIBMZPRC on volume SHAR01 from DDDEF entry SIBMZPRC in TARGET zone PLI410T. The FMID for IBMZCPLG is H270410 and the RMID is H270410.	PLI410.SIBMZ
<input type="checkbox"/> 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 FMID is HCRY740 and the RMID is HCRY740. The LINK is ../lpp/ocsf_baseivp.	SMLAB01.ROOT
<input type="checkbox"/> GIM70567E	A SYMLINK for HFS CDSLMO37 was not found in directory /sharelab /SMLAB01/usr/lpp/ocsf/IBM/ from DDDEF entry SCDSHFS in TARGET zone Z1130T. The FMID is JCRY741 and the RMID is JCRY741. The SYMLINK is ../lpp/ocsf_baseivp.	SMLAB01.ROOT
<input type="checkbox"/> GIM70563E	A ALIAS for DATA IRRSPIMH was not found in data set SYS1.SIEAHDR.H on volume SHAR01 from DDDEF entry SIEAHDR in TARGET zone Z1130T. The FMID is HBB7780 and the RMID is HBB7780. The ALIAS is IRRSPIM.	SYS1.SIEAHDR.H

Total: 6, Selected: 0

Close Hide

Find: Next Previous Highlight all Match case

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

If no errors discovered text "There is no data to display" will be displayed within table

Welcome x Software Man... x

Software Management > Software Instances

Software Instances

Actions Match: All filters

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

End of Service
Software Instance Validation
Missing Critical Service
Missing FIXCAT SYSMODs
SYSMOD Search
Software Instance Comparison...

Name	Description	Activity	Global Zone CSI	Target Zones	Ca
V2R1	Software Inst... products CSI.		MVSSTORE.SITEST.CSI	COB420T, DIT130T, DT910T, FAN11T, FMN11T, HOS112T, IHS700T, JAVA61T, OGL1T, PLI410T, PPFA1T, PSF440T, REXX14T, SA330T, TGT113, TNVSS54, TWS851T, WMQ701T, XML110T, ZOSMFCT	
z/OS			MVSSTORE.SITEST.CSI	COB420T, DIT130T, DT910T, FAN11T, FMN11T, HOS112T, IHS700T, JAVA61T, OGL1T, PLI410T, PPFA1T, PSF440T	

Select 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

Similar to REPORT ERRSYSMODS Output displayed in tree table format

Software Management > Software Instances > Maintenance Reports

Maintenance Reports

Missing Critical Service

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

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
[-] z/OS_Lab_SWI	P01	March 27, 2012 11:24:23						
[-] H0GI400								OSA/SF
[-] H0GI400								
[-] AA38381			TGT113		UA63960	HIPER	FUL	
[-] UA62211								
[-] AA38381			TGT113		UA63960	PE		
[-] HADRB10								Debug Tool Base
[-] HADRB10								
[-] AM54307			FMN11T	UK75928		HIPER	FUL	
[-] HBB7780								BCP Base
[-] HBB7780								
[-] AA32240			TGT113			HIPER	FUL	
[-] AA36875			TGT113			HIPER	PRF	
[-] AA36969			TGT113		UA64112	HIPER	IPL,PRF,SYSPLEXS	
[-] AA37064								

Total: 192, Selected: 0

Refresh Last refresh: Sep 7, 2012 4:16:35 PM

Close Hide

Software Instances

Actions Match: All filters

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

End of Service
Software Instance Validation
Missing Critical Service
Missing FIXCAT SYSMODs
SYSMOD Search
Software Instance Comparison...

Name	Description	Activity	Global Zone CSI	Target Zones	Ca
V2R1	Software Instance Products CSI.		MVSSTORE.SITEST.CSI	COB420T, DIT130T, DT910T, FAN11T, FMN11T, HOS112T, IHS700T, JAVA61T, OGL1T, PLI410T, PPFA1T, PSF440T, REXX14T, SA330T, TGT113, TNVSS54, TWS851T, WMQ701T, XML110T, ZOSMFCT	
z/OS			MVSSTORE.SITEST.CSI	COB420T, DIT130T, DT910T, FAN11T, FMN11T, HOS112T, IHS700T, JAVA61T, OGL1T, PLI410T, PPFA1T, PSF440T, REXX14T, SA330T	

Select 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

Total: 2

Refresh

Close

Similar to REPORT MISSINGFIX Output displayed in tree table format

Welcome x Software Man...

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

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"/> z/OS_Lab_SWI	P01	March 27, 2012 11:24:23				
<input type="checkbox"/> IBM.Device.Disk.DS8000-2107						
<input type="checkbox"/> HDZ1D10						Data Facility System Managed Storage Base & ENU
<input type="checkbox"/> AA34857			TGT113		UA63957	
<input type="checkbox"/> AA36163			TGT113	UA62970		
<input type="checkbox"/> AA36164			TGT113	UA62987		
<input type="checkbox"/> AA36166			TGT113	UA63014		
<input type="checkbox"/> AA36863			TGT113		UA63852	
<input type="checkbox"/> AA37597			TGT113		UA64681	
<input type="checkbox"/> AA37891			TGT113		UA64297	
<input type="checkbox"/> AA38031			TGT113		UA64478	
<input type="checkbox"/> AA38077			TGT113		UA63299	
<input type="checkbox"/> AA38119			TGT113		UA63900	
<input type="checkbox"/> AA38239						

Total: 272, Selected: 0

Last refresh: Sep 7, 2012 4:29:49 PM

Similar to REPORT MISSINGFIX Output displayed in non-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: Non-tree

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"/> z/OS_Lab_SWI	P01	March 27, 2012 11:24:23				
<input type="checkbox"/> z/OS_Lab_SWI > IBM.Device.Disk.DS8000-2107						
<input type="checkbox"/> z/OS_Lab_SWI > IBM.Device.Disk.DS8000-2107 > HDZ						Data Facility System Managed Storage Base & ENU
<input type="checkbox"/> z/OS_Lab_SWI > IBM.Device.Disk.DS8000-2107 > HDZ			TGT113		UA63957	
<input type="checkbox"/> z/OS_Lab_SWI > IBM.Device.Disk.DS8000-2107 > HDZ			TGT113	UA62970		
<input type="checkbox"/> z/OS_Lab_SWI > IBM.Device.Disk.DS8000-2107 > HDZ			TGT113	UA62987		
<input type="checkbox"/> z/OS_Lab_SWI > IBM.Device.Disk.DS8000-2107 > HDZ			TGT113	UA63014		
<input type="checkbox"/> z/OS_Lab_SWI > IBM.Device.Disk.DS8000-2107 > HDZ			TGT113		UA63852	
<input type="checkbox"/> z/OS_Lab_SWI > IBM.Device.Disk.DS8000-2107 > HDZ			TGT113		UA64681	
<input type="checkbox"/> z/OS_Lab_SWI > IBM.Device.Disk.DS8000-2107 > HDZ			TGT113		UA64297	
<input type="checkbox"/> z/OS_Lab_SWI > IBM.Device.Disk.DS8000-2107 > HDZ			TGT113		UA64478	
<input type="checkbox"/> z/OS_Lab_SWI > IBM.Device.Disk.DS8000-2107 > HDZ			TGT113		UA63299	
<input type="checkbox"/> z/OS_Lab_SWI > IBM.Device.Disk.DS8000-2107 > HDZ			TGT113		UA63900	
<input type="checkbox"/> z/OS_Lab_SWI > IBM.Device.Disk.DS8000-2107 > HDZ			TGT113		UA63299	
<input type="checkbox"/> z/OS_Lab_SWI > IBM.Device.Disk.DS8000-2107 > HDZ			TGT113		UA64575	

Total: 272, Selected: 0

Refresh Last refresh: Sep 7, 2012 4:29:49 PM

Close Hide

Welcome x Software Man... x

Software Management > Software Instances

Software Instances

Actions Match: All filters

Software Instances

Name	Description	Activity	Global Zone CSI	Target Zones	Ca
MAST S	Source instance for the z/OS Deployment Label instance contains the product with PTFs		ZOSMF.SWDEPLOY.GLOBAL.CS	TSMP36P	
MAST PTFS	End of		ZOSMF.SWDEPLOY.GLOBAL.CS	TSMP36	
MAST	z/OS V1R12 at RSU1105.		ZOSMF.SWDEPLOY.GLOBAL.CS	TGTZ12	

You can select SYSMOD Search

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...
Modify Filters...

End of
Software Instance Validation
Missing Critical Service
Missing FIXCAT SYSMODs
SYSMOD Search
Software Instance Comparison...

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

Welcome x Software Man... 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

You need to specify one or more SYSMODs

Search Results



Actions Table view: Tree

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

Results shown in a scrollable tree table

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

Software Instance / Zone Name / SYSMOD	System	Type	FMID	Status	Installed
Filter	Filter	Filter	Filter	Filter	Filter
<input type="checkbox"/> <input type="checkbox"/> MASTER_SMPEV3.6_WITH_PTFS	LOCAL				
<input type="checkbox"/> <input type="checkbox"/> DSMP36P					
<input type="checkbox"/> <input type="checkbox"/> U001270				Superceded by U001301	
<input type="checkbox"/> <input type="checkbox"/> U001281		PTF	HMP1J00	Accepted	January 3, 2012 14:09:28
<input type="checkbox"/> <input type="checkbox"/> GLOBAL					
<input type="checkbox"/> <input type="checkbox"/> U001270		PTF	HBCNC00	Received	January 16, 2012 15:23:34
<input type="checkbox"/> <input type="checkbox"/> U001281		PTF	HMP1J00	Received	Januav 16. 2012
Total: 55, Selected: 0					

Close

Hide

In one request, we 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.

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

Software Instance / Zone Name / SYSMOD	System	Type	FMID	Status	Installed
Filter	Filter	Filter	Filter	Filter	Filter
<input type="checkbox"/> Z1130D					
<input type="checkbox"/> U001270		PTF	HBCNC00	Superceded by U001362	
<input type="checkbox"/> U001281		PTF	HMP1J00	Accepted	January 23, 2012 02:19:45
<input type="checkbox"/> Z1130T					
<input type="checkbox"/> U001270		PTF	HBCNC00	Superceded by U001362	
<input type="checkbox"/> U001281		PTF	HMP1J00	Applied	January 23, 2012 02:21:08

Total: 55, Selected: 0

Close

Hide

More information is displayed using Software Management; and you can query multiple SYSMODs, across multiple GLOBAL zones, possibly residing in separate sysplexes, possibly even in different locations, at the same time!!!

```
Entry Type:  SYSMOD
Entry Name:  U001270
```

To return to the previous panel, enter END .

To select an entry from a zone, enter S next to the zone.

* - Entry not found in zone.

** - Zone could not be allocated or is not initialized.

```
----- Status -----
ZONE      TYPE      FMID      STATUS    DATE      TIME      REWORK
-----
DLBZ12    PTF      HBCNC00   SUP       11.255    08:26:10
DSMP36    *
DSMP36P          SUP
GLOBAL    PTF          REC       12.016    15:23:34
TGTZ12    PTF      HBCNC00   SUP       11.214    11:28:39
TSMP36    *
TSMP36P          SUP
```

Using SMP/E's Cross Zone Query, only 1 SYSMOD at a time can be queried in only 1 GLOBAL zone.

Welcome x Software Man... x

Software Management > Software Instances > Maintenance Reports

Maintenance Reports

SYSMOD Search x Missing FIXCAT SYSMODs x Missing Critical Service

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

Actions	Match: All filters	Table view: Tree	OD / System	LDDATA	Target Zones	Resolving SYSMODs Received in Global Zone	Re SY GI
View			End of Service	received (GMT)	Filter		
Maintenance Reports			Software Instance Validation	er		Filter	
Expand			Missing FIXCAT SYSMODs				
Collapse			SYSMOD Search	January 16, 2012			
Select All			Software Instance Comparison...	23:46			
Deselect All			LOCAL	January 16, 2012			
Configure Columns				15:00:10			

You can select Software Instance Comparison

The Software Instance Comparison report can be used to identify the functional and service differences between two software instances. This report can be helpful when you are completing the following actions:

- **Debugging a problem with your software, identifying what software changed to fix (or cause) the problem.**
- **Verifying that your software is at the same service level.**
- **Planning for a deployment to identify what will be changing.**

While somewhat similar to a REPORT SYSMODS command, this action can be performed against software instances throughout your enterprise

Select Software Instance to Compare

When you compare two software instances, the resulting report identifies the SYSMODs found in the second software instance that are not found against the first software instance.

First software instance: MASTER_SMPEV3.6_WITHOUT_PTFS on system LOCAL

Second Software Instance

Select the Software Instance to compare

Actions Match: All filters

Name	System	Description	Activity	Global Zone CSI
Contains "Master"	Filter	Filter		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.
<input type="radio"/> MASTER_ZOSV1.12	LOCAL	Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains z/OS V1R12 at RSU1105.		ZOSMF.SWDEPLOY.
<input type="radio"/> 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.C

Total: 3, Filtered: 3, Selected: 1

Refresh Last refresh: Jan 14, 2013 6:51:09 PM

OK Cancel

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 **Acti** zone in the first software instance. If the Target Zones in Second Software Instance column is blank, the corresponding target zone in the fir:

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

Map the zones to compare

Total: 1, Selected: 1

OK

Cancel

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 found in the second software instance, but not in the first software instance. If the software instances need to be at the same server, 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

FMID/SYSMOD	Description	Type	Target Zone in First Software Instance	Target Zone in Second Software Instance	SYSMOD Received in Global Zone
Filter	Filter	Filter	Filter	Filter	Filter
<input type="checkbox"/> <input type="checkbox"/> HBCNC00	SMP/E Planning and Migration Assistant Software Info Base				
<input type="checkbox"/> <input checked="" type="checkbox"/> UO01301		PTF	TSMP36	TSMP36P	Yes
<input type="checkbox"/> <input type="checkbox"/> HBCND0B	SMP/E Planning and Migration Assistant				
<input type="checkbox"/> <input checked="" type="checkbox"/> UO01185		PTF	TSMP36	TSMP36P	Yes
<input type="checkbox"/> <input checked="" type="checkbox"/> UO01268		PTF	TSMP36	TSMP36P	Yes
<input type="checkbox"/> <input checked="" type="checkbox"/> UR53091		PTF	TSMP36	TSMP36P	Yes
<input type="checkbox"/> <input type="checkbox"/> HMP1J00	SMP/E Base				
<input type="checkbox"/> <input checked="" type="checkbox"/> LIAPTE01		USERMOD	TSMP36	TSMP36P	Yes
Total: 16, Selected: 0					

Close Hide

Welcome x Software Man... x

Select Products to view details about products that are installed in ANY software instance

Software Management

Use this task to view details about software inventory, including related products, features, FMIDs, data sets, deployments, and SYSMO

- [Software Instance](#) 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 data. Indicate whether to display or suppress information message

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

Software Management ▸ Products

H

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 ▾

Product	Release	Product ID	Messages	Vendor	General Availability	End of Ser
Filter	Filter	Filter	Filter	Filter	Filter	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 Ann
<input type="checkbox"/> z/OS	01.12.00	5694-A01		IBM	Sep 24, 2010	<input checked="" type="checkbox"/> Not Ann
<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, 21
<input type="checkbox"/> Debug Tool V9	09.01.00	5655-U27		IBM	Sep 26, 2008	<input checked="" type="checkbox"/> Apr 30, :
<input type="checkbox"/> Enterprise PL/I V4	04.01.00	5655-W67		IBM	Sep 24, 2010	<input checked="" type="checkbox"/> Apr 30, :

Total: 27, Selected: 0

Refresh Last refresh: Jan 14, 2013 7:10:54 PM

You can scroll right

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, you can filter the list to identify any product with an announced end of service date later than December 31, 2004.

Products

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

Product

Filter

- AFP FONT COLLECTION FOR S/390
- DITTO/ESA FOR MVS
- Debug Tool V12
- Debug Tool V9
- Enterprise COBOL V4

Total: 27, Selected: 0

Refresh Last refresh: Jan 14, 2013

Modify Filters

Match: Match case

Columns: Filters

- ▶ Product
- ▶ Release
- ▶ Product ID
- ▶ Messages
- ▶ Vendor
- ▶ General Availability
- ▼ End of Service
- ▶ Additional Product Information

Condition: Start date:

OK Cancel Help

Product Name	End of Service	Address
Filter	Filter	Filter
AFP FONT COLLECTION FOR S/390	✓ Not Announced	http://bin/s/appn
DITTO/ESA FOR MVS	✓ Not Announced	http://bin/s/appn
Debug Tool V12	✓ Not Announced	http://bin/s/appn
Debug Tool V9	✗ Apr 30, 2012	http://bin/s/appn
Enterprise COBOL V4	✓ Not Announced	http://bin/s/appn

Three products that meet the criteria are displayed.

Welcome x Software Man... 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 info **Feature, and FMID Information** [action](#) provided in the Software Instances view. [Learn more...](#)

Actions ▼ Match: All filters

Product ▲	Release	Product ID	Messages	Vendor	General Availability	End of Service	Additional Product Information
Filter	Filter	Filter	Filter	Filter	Filter	Dates from Dec 31, 2004	Filter
<input type="checkbox"/> Debug Tool V9	09.01.00	5655-U27		IBM	Sep 26, 2008	⊗ Apr 30, 2012	http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&subtype=sm&appname=ShopzSeries&htmlfid=897/ENUS5655-U27
<input type="checkbox"/> Enterprise COBOL for z/OS and OS/390	03.02.00	5655-G53		IBM	Sep 27, 2002	⊗ Oct 3, 2005	http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&subtype=sm&appname=ShopzSeries&htmlfid=897/ENUS5655-G53
<input type="checkbox"/> Enterprise PL/I V4	04.01.00	5655-W67		IBM	Sep 24, 2010	⚠ Apr 30, 2014	http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&subtype=sm&appname=ShopzSeries&htmlfid=897/ENUS5655-W67

Total: 27, Filtered: 3, Selected: 0

Last refresh: Jan 14, 2013 7:10:54 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

Now you can see where these products are installed by selecting Actions, View and then Software Instances

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 **Feature, and FMID Information** action provided in the Software Instances view. [Learn more...](#)

Product	Vendor	General Availability	End of Service	Additional
5655-U27	IBM	Sep 26, 2008	✘ Apr 30, 2012	http://www-01.ibm.com/systems/alias?appname=St
5655-G53	IBM	Sep 27, 2002	✘ Oct 3, 2005	http://www-01.ibm.com/systems/alias?appname=St
5655-W67	IBM	Sep 24, 2010	⚠ Apr 30, 2014	http://www-01.ibm.com/systems/alias?appname=St

Total: 27, Filtered: 3, Selected: 3

Refresh Last refresh: Jan 14, 2013 7:10:54 PM

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

View Software Instances by Product

Software Instances by Product

Actions ▾ | Table view: Tree

Product / Software Instance	Release	Product ID	Messages	Vendor	General Availability	End of Service	Additional Product Informa
Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
<input type="checkbox"/> Enterprise COBOL for z/OS and OS/390	03.02.00	5655-G53		IBM	Sep 27, 2002	 Oct 3, 2005	http://www-01.ibm.com/comm bin/ssialias?infotype=dd&subty apname=ShopzSeries&htmlf
<input type="checkbox"/> ■ MASTER_zOS_R13_w/Other_Product							
<input type="checkbox"/> Debug Tool V9	09.01.00	5655-U27		IBM	Sep 26, 2008	 Apr 30, 2012	http://www-01.ibm.com/comm bin/ssialias?infotype=dd&subty apname=ShopzSeries&htmlf
<input type="checkbox"/> ■ MASTER_zOS_R13_w/Other_Product							
<input type="checkbox"/> Enterprise PL/I V4	04.01.00	5655-W67		IBM	Sep 24, 2010	 Apr 30, 2014	http://www-01.ibm.com/comm bin/ssialias?infotype=dd&subty apname=ShopzSeries&htmlf
<input type="checkbox"/> ■ MASTER zOS R13 w/Other Product							

Total: 6, Selected: 0

Refresh

Close

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.

Welcome x Software Man... x

Software Management > Products > View Software Instances

View Software Instances by Product

Shows the system where the software instance is accessible from

Software Instances by Product

Actions ▼ Table view: Tree

Product / Software Instance	System	Description	Activity	Global Zone CSI	Target Zones
Filter	Filter	Filter	Filter	Filter	Filter
<input type="checkbox"/> Enterprise COBOL for z/OS and OS/390					
<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
<input type="checkbox"/> Debug Tool V9					
<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
<input type="checkbox"/> Enterprise PL/I V4					
<input type="checkbox"/> MASTER_zOS_R13_w/Other_Product	LOCAL	z/OS V1.13 with over 20 other		SMLAB01.GLOBAL.CSI	COB320T, DT910T,

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

Welcome x Software Man..

You can select Deployments to deploy a software instance or manage existing deployments

Software Management

Use this task to view details of your software inventory, including related products, features, FMIDs, data sets, deployments, and SYSMO

- [Software Instances](#) Deploy 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 data. Indicate whether to display or suppress information messages.

Same as existing z/OS V1.13 function

Welcome x Software Man... x

Software Management ▶ Deployments

Deployments

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

Actions ▼

Name	Description	Activity	Categories	Source Software Instance	Sou
Filter	Filter	Filter	Filter	Filter	Filter
<input type="checkbox"/> DEMO_Deployment_Sample	This is a sample deployment that may be used for demos.	Completed		MASTER_SMPEV3.6_WITH_PT FS	LOCA

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

Software Management ▶ Deployments

Deployments

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

The screenshot shows the 'Actions' menu open over a table of deployments. The 'New...' option is highlighted. The table has columns for Name, Activity, Categories, Source Software Instance, and Source.

Name	Activity	Categories	Source Software Instance	Source
Filter	Filter	Filter	Filter	Filter
<input type="checkbox"/> DEMO Sample	le deployment that or demos. Completed		MASTER_SMPEV3.6_WITH_PT FS	LOCAL

The 'Actions' menu includes the following options:

- Modify
- View
- Copy...
- Cancel
- Remove...
- New...**
- Select All
- Deselect All
- Configure Columns...
- Modify Filters...
- Hide Filter Row
- Clear Filters
- Modify Sort...
- Clear Sorts

The same checklist leads you through the new deployment

Welcome x

Software Man... x

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">• View missing SYSMOD reports.
	5. Configure this deployment.
	6. Define the job settings. z/OSMF creates the deployment summary and jobs. <ul style="list-style-type: none">• View the deployment summary.• View the deployment jobs.
	7. Specify the properties for the target software instance.

Close

Select Categories to create or manage categories

Software Management

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

Software Instances	Deploy 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 data. Indicate whether to display or suppress information messages.

Same as existing z/OS V1.13 function

Software Management Categories

Categories

Actions ▾

Name	Description	Activity	Last Modified (Local)	Modified By	Locked (Local)	Locked By
Filter	Filter	Filter	Filter	Filter	Filter	Filter
<input type="checkbox"/> DM Remote	Software Deployment remote SVT scenarios		Apr 13, 2011 3:14:00 PM	DEBUG71		
<input type="checkbox"/> Demo			Sep 14, 2011 9:38:41 AM	DEBUG30		
<input type="checkbox"/> For test			Oct 25, 2011 5:42:33 AM	DEBUG68		
<input type="checkbox"/> TYQ-Category	This Category is for TIANYQ to test.		Nov 2, 2011 3:02:34 AM	DEBUG67		
<input type="checkbox"/> MUDASD			Dec 13, 2011 9:18:40 AM	DEBUG32		

Total: 5, Selected: 0

Last refresh: Sep 7, 2012 5:44:57 PM local time (Sep 7, 2012 9:44:57 PM GMT)

Select Settings

Software Management

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

Software Instances	Define 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 data. Indicate whether to display or suppress information messages.

Welcome x Software Man... x

Software Management > Settings

Settings

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

- Greenwich Mean Time (GMT)
- Local (Eastern Daylight Time)

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

- Yes
- No

* Maximum number of rows to display in a table:

750

OK Cancel

Agenda



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Software Management Summary



- **A new software management task provides new reporting and display capabilities for SMP/E installed software.**
- **It builds on the Software Deployment capabilities introduced with z/OSMF V1.13.**
- **You're able to see product information for SMP/E installed software in a software instance.**
 - This enables system programmers, operations staff, even procurement personnel to see what products are installed.
 - System programmers are able to see the FMIDs that are installed and the data sets where the software was installed.

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Software Management Summary ...



- **Additionally, this function provides a number of new reporting capabilities. Among them are the ability to:**
 - Display end of service information about SMP/E installed products to help you to plan timely upgrades to remain service supported;
 - Help you cross-check SMP/E inventory information with catalog entries, volume residency, and data set contents thereby identifying potential integrity problems with your maintenance and or deployment environments;
 - Help identify missing service that might be of interest to you enabling you to improve your preventive maintenance practices;
 - Query selected software instances throughout your enterprise to determine whether if one or more SYSMODs are installed, to help you identify systems that have (and do not have) PTFs installed. This can help detect software instances which are missing a desired fix, or which software instances have a fix that your want removed installed;
 - Compare two software instances to help you identify changes and simplify problem determination by helping to identify what changed (or will change).

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z/OSMF Software Management Benefits

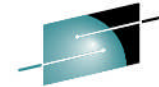


Task	Without z/OSMF Software Management	With z/OSMF Software Management
Display the product content of software instances.	Can use multiple different methods to report on product content locally (within sysplex). Unable to: •launch in context other views or reports •View product content for remote systems	Easy (few clicks) to identify one or more software instances (locally or remote) that you want to view product information. Once viewed, the user can launch in context additional views, reports, or follow links to additional information. Seconds
Display the data sets that make up a software instances.	Can NOT be done today. At best, the user can write their own program to identify data sets in local software instances.	Easy (few clicks) to identify the data sets actually used in a software instance. Seconds (or up to a few minutes)
Display all the software instances where a product is installed.	Can NOT be done today.	Easy (few clicks) to identify all the software instances where a product is installed throughout the customer enterprise. Seconds
Identify software products that are approaching, or have reached, end of service support	Currently there are web sites that can be used to identify announced end of service dates, but they don't analyze installed software. Hours (or even days for entire enterprise)	Easy (few clicks) to show end of service information for all installed products (or products in specific software instances). Results shown in both graphic and tabular form. Seconds

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z/OSMF Software Management Benefits



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Task	Without z/OSMF Software Management	With z/OSMF Software Management
Validate the SMP/E structure (zones and data set definitions) and content (members on libraries and files) of software instances.	Can NOT be done today.	Easy (few clicks) to identify any structure problems or missing content in a software instance and the data sets referenced. A few minutes
Identify if any critical service (HIPER, PE fixing, or fixes associated with one or more fix categories) is missing.	Can use multiple SMP/E REPORTs to identify missing critical fixes for local software instances. However, this can only be done for local software instances (within sysplex). Less than a minute (for the local system)	Easy (few clicks) to identify missing critical fixes. Once viewed, z/OSMF sorting and filtering can help with the analysis. Seconds (or up to a few minutes)
Identify whether a fix is installed or not; and if so in which software instances.	Can use either SMP/E query or LIST functions to see if a SYSMOD is installed. However, this can only be done for local software instances (within sysplex). Less than a minute (for the local system)	Easy (few clicks) to identify whether a fix is installed or not; and if so in which software instances throughout your enterprise. Less than a minute (for local and remote systems)
Compare the service and functional content of two software instances to aid in debugging, change control, or quality assurance.	Can use SMP/E REPORT SYSMODS to identify differences between two target zones for local software instances. However, this can only be done for local software instances (within sysplex). Less than a minute (for the local system)	Easy (few clicks) to identify differences between two target zones for software instances throughout your enterprise. Seconds (or up to a few minutes)

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Testimonial



- **Upon seeing this functionality, Cheryl Watson (a consultant at Watson and Walker) said:**
 - *“I think the new features are neat enough to encourage people who haven't installed z/OSMF yet to reconsider installing it.”*
 - **Obviously, I agree**

Availability



- **This function became available on z/OSMF V1.13 on December 17, 2012 via PTFs: UK79887, UK83841, UK83825, UK83828, UK83833, UK83836, UK83842, and UK83852**
 - These PTFs provide additional new function beyond Software Management
 - See <http://www-03.ibm.com/systems/z/os/zos/zosmf/enhancements.html> for more information

Shameless Plug(s)



- **You can try this great new function THIS WEEK!!!**
 - Without having to install the PTFs (or z/OSMF V1.13) 😊
- **Just attend the z/OSMF Software Management Hands-on Lab**
 - Session 13070
 - Friday, February 8, 2013: 8:00 AM-9:00 AM
 - Union Square 23-24, Fourth Floor (San Francisco Hilton)
- **You can also attend the z/OSMF Software Deployment Hands-on Lab**
 - Session 12753
 - Same time, same place



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THANK YOU

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New z/OSMF Software Management Capabilities

Greg Daynes
IBM Corp.
gdaynes@us.ibm.com



Thursday, February 7, 2013: 8:00 AM-9:00 AM
Franciscan B, Ballroom Level
Session 13082



Additional Information



- **z/OS Management Facility website**
 - <http://ibm.com/systems/z/os/zos/zosmf/>
- **z/OSMF V1.13 SPE Enhancement webpage**
 - <http://www-03.ibm.com/systems/z/os/zos/zosmf/enhancements.html>
- **IBM z/OS Management Facility education modules in IBM Education Assistant**
 - <http://publib.boulder.ibm.com/infocenter/ieduasst/stgv1r0/index.jsp>
 - **Scroll down to z/OS Management Facility**



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Agenda



- **Brief Overview of Software Deployment**
- **Recent Enhancements to Software Deployment**
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 - Support for granular control over which users can view and modify deployment task artifacts
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- **Backup**
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Configure Deployment Wizard ...



New step in configure deployment wizard

Directories for which data sets could not be obtained

If a data set cannot be determined because a directory is not mounted or cannot be found, the user will be given the opportunity to supply the mount point and the UNIX file system data set. The deployment will not proceed until the user provides the data set for the mount point or the directory is mounted so that the data set can be determined.



Configure Deployment Wizard ...



Welcome zosmf8

Log out

IBM

Welcome Deployment

Deployment Deployment

Configure Deployment

Help

UNIX File System Data Sets

Sets

The UNIX file system data sets that contain the directories listed in the UNIX directories field could not be identified because they are not mounted. Use the Add action to specify the name of the mount point to identify the mount points that would make the directories accessible to SMP/E. To proceed, a dataset and mount point must be specified for each UNIX directory.

Source software: Kathy's Missing MP SWI on system LOCAL

Target system: LOCAL

Unmounted Directories for Kathy's Missing MP SWI on system LOCAL

UNIX File System Data Sets

UNIX directories:

/service/usr/lpp/biz/sbla001/IBM/
/service/usr/lpp/biz/sbla002/IBM/

< Back Next > Finish Cancel

On the right you can see the directories for which z/OS UNIX file system data sets could not be obtained. By selecting the Add Action, the user can enter the mount point information.

Complete your sessions evaluation online at SHARE.org/SanFranciscoEval



Configure Deployment Wizard ...



Welcome zosmf8 Log out

Welcome Deployment

Deployment > Deploy Software > Deployment Checklist > **Add UNIX Data Set and Mount Point** Help

Specify a UNIX file system data set name and mount point that makes the data set accessible to SMP/E. The mount point must have a prefix for one or more of the listed UNIX directories. z/OSMF uses the mount point to identify the directories contained in the data set. z/OSMF does not mount the data set.

Software instance: Kathy's Missing MP SWI

* UNIX file system data set name:

* Mount point:

UNIX directories:

Enter the z/OS UNIX file system data set name and mount point

The user can enter the Unix file system data set and the mount point.

Configure Deployment Wizard ...



Welcome zosmf8 Log out IBM

Welcome Deployment

Deployment > Deploy Software > Deployment Checklist > Configure Deployment Help

Configure Deployment for Kathy's Missing MP SWI

UNIX File System Data Sets

The UNIX file system data sets that contain the directories listed in the UNIX directory. Specify the name of those data sets and to identify the mount points that would make the directories accessible. To proceed, a dataset and mount point must be specified for each UNIX directory.

Messages 1 Close All

IZUD593I: 1 UNIX directories were assigned to data set "SMPTEST.MIG2.VL144B". Oct 19, 2011 8:53:51 AM

Source software instance: Kathy's Missing MP SWI on system LOCAL
Target system: LOCAL

Unmounted Directories for Kathy's Missing MP SWI on system LOCAL

UNIX File System Data Sets

Data Set Name	Mount Point	Messages
<input checked="" type="checkbox"/> SMPTEST.MIG2.VL144B	/service/usr/lpp/blz/sbla001	

Total: 1, Selected: 1

UNIX directories:
/service/usr/lpp/blz/sbla002/IBM/

< Back Next > Finish Cancel

Mount point assigned to a z/OS UNIX file system data set

Upon return from adding a mount point, you can see that one has been resolved. The user would again use the Add Action to resolve the second missing Unix directory.

Complete your sessions evaluation online at SHARE.org/SanFranciscoEval



Configure Deployment Wizard ...



Welcome zosmf8

Log out



Welcome

Deployment

Deployment > Deploy Software > Deployment Checklist > Configure Deployment

Help

Configure Deployment for Kathy's Missing MP SWI

- ✓ Welcome
- ✓ DLIBs
- ✓ Model
- UNIX File System Data Sets
- SMP/E Zones
- Data Sets
- Catalogs
- Volumes and Storage Classes
- Mount Points

UNIX File System Data Sets

The UNIX file system data sets that contain the directories listed in the UNIX directory cannot be identified because they are not mounted. Use the Add action to specify the name of those data sets and to identify the mount points that would make the directories accessible to SMP/E. To proceed, a dataset and mount point must be specified for each UNIX directory.

All mount points are resolved, configuration can continue

Messages 0 0 2 Close All

IZUD593I: 1 UNIX directories were assigned to data set "SMPTTEST.MIG2.VL144B".

Oct 19, 2011 8:53:51 AM

IZUD593I: 1 UNIX directories were assigned to data set "PINTO.VICOM.JCL".

Oct 19, 2011 8:58:04 AM

Source software instance: Kathy's Missing MP SWI on system LOCAL
Target system: LOCAL

Unmounted Directories for Kathy's Missing MP SWI on system LOCAL

UNIX File System Data Sets

Data Set Name	Mount Point	Messages
<input type="checkbox"/> SMPTTEST.MIG2.VL144B	/service/usr/lpp/blz/sbla001	
<input checked="" type="checkbox"/> PINTO.VICOM.JCL	/service/usr/lpp/blz/sbla002/IBM	

Total: 2, Selected: 1

UNIX directories:

< Back Next > Finish Cancel


After all mount points have been resolved, clicking Next will proceed through the Configuration process as normally done. If errors result from the mount points entered by the user, control will remain on this pane until the errors are resolved.

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Deployment Copy



- When displaying the list of deployments, only Completed deployments may be copied.

The screenshot shows the IBM z/OS Management Facility interface. The main content area displays a table of deployments. A context menu is open over the 'Kurt1' deployment, with the 'Copy...' option highlighted by a red arrow. The 'In progress' status in the 'Activity' column for 'Kurt1' is also highlighted with a red box.

Name	Description	Activity	Categories	Source Software Instance
GregsDeployment		In progress		GregsInstance
Kurt1	existing global zone with a missing target zone.	In progress		DB2_V9
KurtF		Completed		DB2_V9
ZachD		In progress		mapinit_source5
kptest		In progress		DB2_V9
mapinit_case_1	Source 1 = global, 2 target zones, 2 dlrib zones in 1 CSI data set Model 1 = global, 2 target zones, 2 dlrib zones in 1 CSI data set	Being modified		mapinit_src_swi
mapinit_case_10	Source 3 Model 4 (remote)	In progress		Source_3_no_dlrib

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Deployment Copy



- When displaying the list of deployments, only Completed deployments may be copied.

IBM z/OS Management Facility | Welcome zosmf6 | Log out

Welcome | Deployment

Deployment > Deploy Software | Help

Deploy Software

To deploy a software instance, define a new deployment.

Deployments:

Name	Description	Activity	Categories	Source Software Instance
<input type="checkbox"/> GregsDeployment		In progress		GregsInstance
<input type="checkbox"/> Kurt1	existing global zone with a missing target zone.	In progress		DB2_V9
<input checked="" type="checkbox"/> KurtForCopy		Completed		DB2_V9
<input type="checkbox"/> ZachDep		In progress		mapinit_source5
<input type="checkbox"/> kptest		In progress		DB2_V9
<input type="checkbox"/> mapinit_case_1	Global, 2 target zones, 2 dlib zones in 1 CSI	Being modified		mapinit_src_swi
<input type="checkbox"/> mapinit_case_10	Source 3 Model 4 (remote)	In progress		Source_3_no_dlibs

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Deployment Copy



IBM z/OS Management Facility Welcome zosmf6 [Log out](#)

Welcome ✕ Deployment ✕

[Deployment](#) ▸ [Deploy Software](#) ▸ [Deployment Checklist](#) [Help](#)

Deployment Checklist

To deploy a software instance, complete the checklist.

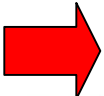
Checklist

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">• View missing SYSMOD reports.
	5. Configure this deployment.
	6. Define the job settings. z/OSMF creates the deployment summary and jobs. <ul style="list-style-type: none">• View the deployment summary.• View the deployment jobs.
	7. Specify the properties for the target software instance.

[Close](#)

Agenda



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User Authorization: Example – z/OS and DB2 Sysprogs



**Give z/OS sysprogs CONTROL access to z/OS objects
and DB2 sysprogs CONTROL access to DB2 objects.
Allow everyone READ access.**

1. Allow only administrators to add and modify categories:

```
RDEFINE ZMFAPLA +  
  (BBNBASE.ZOSMF.SOFTWARE_DEPLOYMENT.DEPLOYMENT.CATEGORIES.MODIFY)  
UACC(NONE)  
PERMIT  
BBNBASE.ZOSMF.SOFTWARE_DEPLOYMENT.DEPLOYMENT.CATEGORIES.MODIFY +  
  CLASS(ZMFAPLA) ID(IZUADMIN) ACCESS(READ)
```

2. Force all objects to be assigned at least one category:

```
RDEFINE ZMFAPLA +  
  (BBNBASE.ZOSMF.SOFTWARE_DEPLOYMENT.DATA.CAT.NOCATEGORY)  
UACC(NONE)  
Permit no users!
```

3. As an administrator, define categories “z/OS” and “DB2”



User Authorization: Example – z/OS and DB2 Sysprogs...



4. Allow DB2 sysprogs CONTROL access to DB2 objects:

```
RDEFINE ZMFAPLA +  
  (BBNBASE.ZOSMF.SOFTWARE_DEPLOYMENT.DATA.*.DB2.** ) UACC(NONE)  
PERMIT BBNBASE.ZOSMF.SOFTWARE_DEPLOYMENT.DATA.*.DB2.** +  
  CLASS(ZMFAPLA) ID(DB2PROG) ACCESS(CONTROL)
```

5. Allow all other users READ access to DB2 objects:

```
PERMIT BBNBASE.ZOSMF.SOFTWARE_DEPLOYMENT.DATA.*.DB2.** +  
  CLASS(ZMFAPLA) ID(IZUUSER) ACCESS(READ)
```

6. Allow z/OS sysprogs CONTROL access to z/OS objects:

```
RDEFINE ZMFAPLA +  
  (BBNBASE.ZOSMF.SOFTWARE_DEPLOYMENT.DATA.*.z/OS.** ) UACC(NONE)  
PERMIT BBNBASE.ZOSMF.SOFTWARE_DEPLOYMENT.DATA.*.z/OS.** +  
  CLASS(ZMFAPLA) ID(ZOSPROG) ACCESS(CONTROL)
```

7. Allow all other users READ access to z/OS objects:

```
PERMIT BBNBASE.ZOSMF.SOFTWARE_DEPLOYMENT.DATA.*.z/OS.** +  
  CLASS(ZMFAPLA) ID(IZUUSER) ACCESS(READ)
```