



13059: z/OSMF - What is it? Why would I want it?

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Agenda

- **What is z/OSMF?**
- **How does z/OSMF fit in my environment?**
- **Why would I want z/OSMF?**
- **What are the Functions and benefits?**
 - **Configuration Assistant for the z/OS Communications Server**
 - **Capacity Provisioning(z/OSMF V1.13)**
 - **Resource Monitoring (z/OSMF V1.12)**
 - **WLM Policy Editor (z/OSMF V1.12)**
 - **Incident Log**
 - **Software management(z/OSMF V1.13)**
 - **ISPF – classic (z/OSMF V1.13)**
- **Summary**

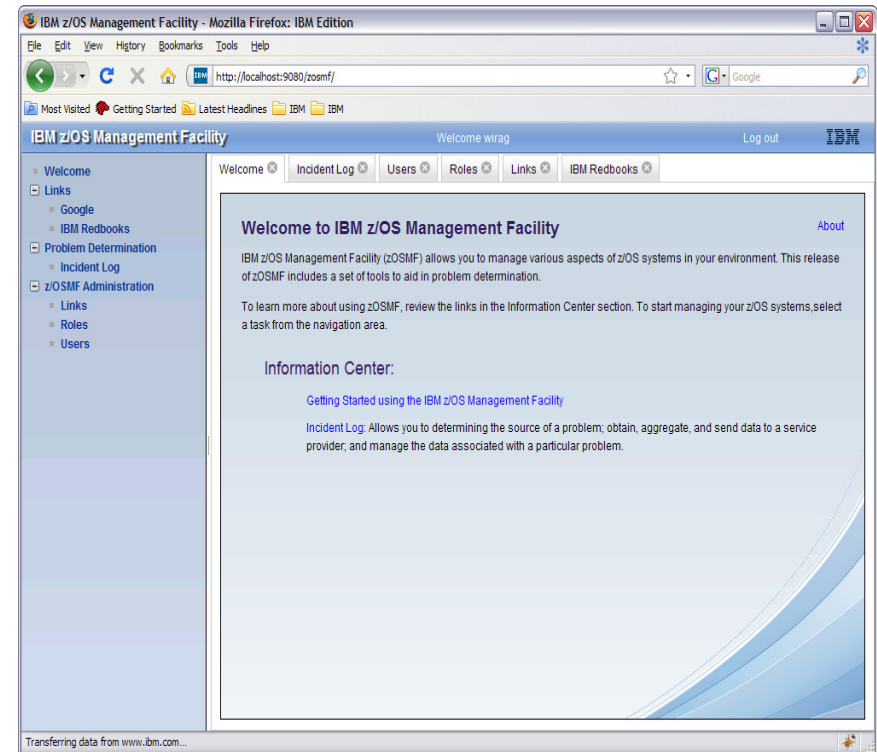
What is z/OSMF?



- **IBM z/OS Management facility (z/OSMF) delivers on IBM's strategy for mainframe simplification and modernization**
- **z/OSMF is a new product for z/OS customers**
- **z/OSMF provides a modern browser based interface to managing the z/OS system**
- **The first release of z/OSMF was delivered as z/OSMF 1.11 at the same time as z/OS 1.11**
- **z/OSMF has a zero price for z/OS customers**
- **z/OSMF has it's own product number and must be ordered**
 - It can be ordered with z/OS in the same serverpac
 - Can be ordered as its own serverpac
 - Can also be ordered as a separate CBPDO
 - Product ID is 5655-S28
 - S&S PID is 5655-S29
 - Both PIDs must be ordered

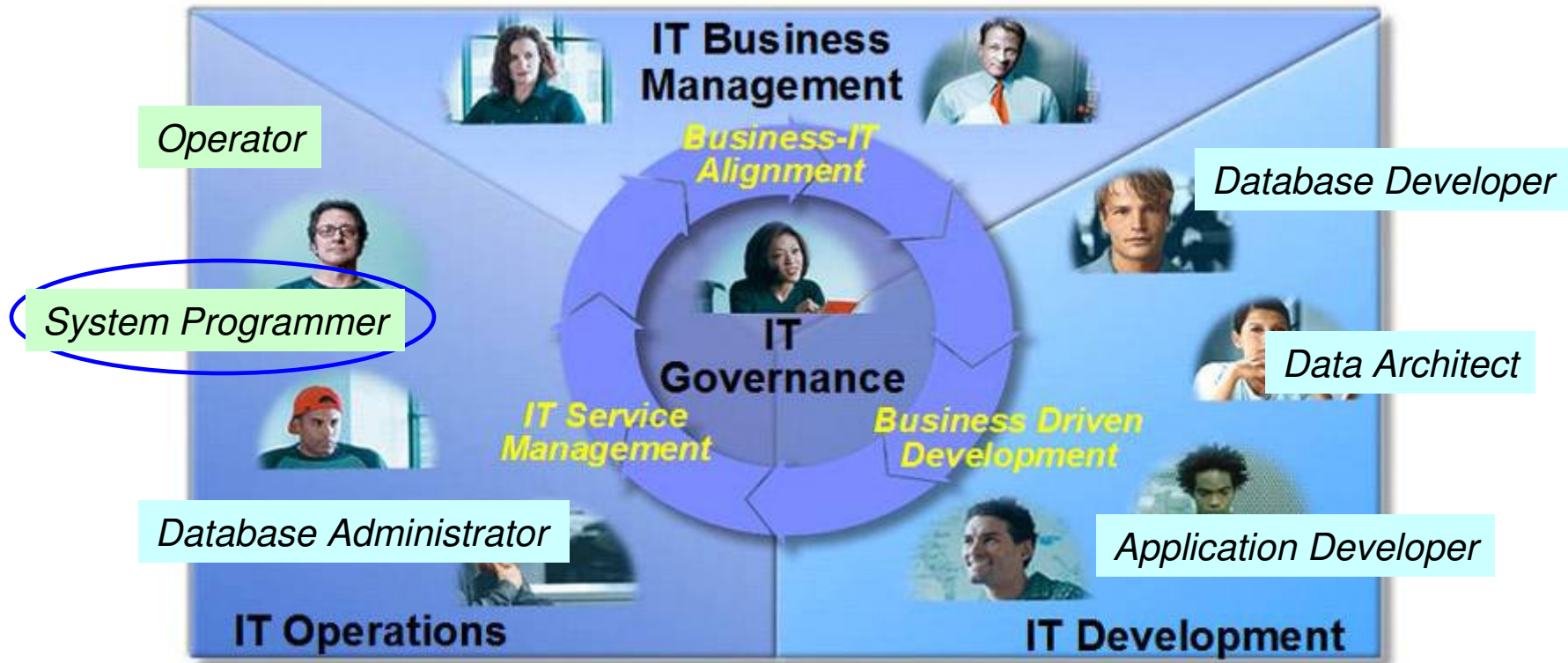
What is z/OSMF?

- **z/OSMF helps system programmers to more easily manage and administer a mainframe system by simplifying day to day operations and administration of a z/OS system.**
- **More than just a graphical user interface, the z/OS Management Facility is intelligent, addressing the needs of a diversified skilled workforce and maximizing their productivity.**



Where does z/OSMF fit in your enterprise?

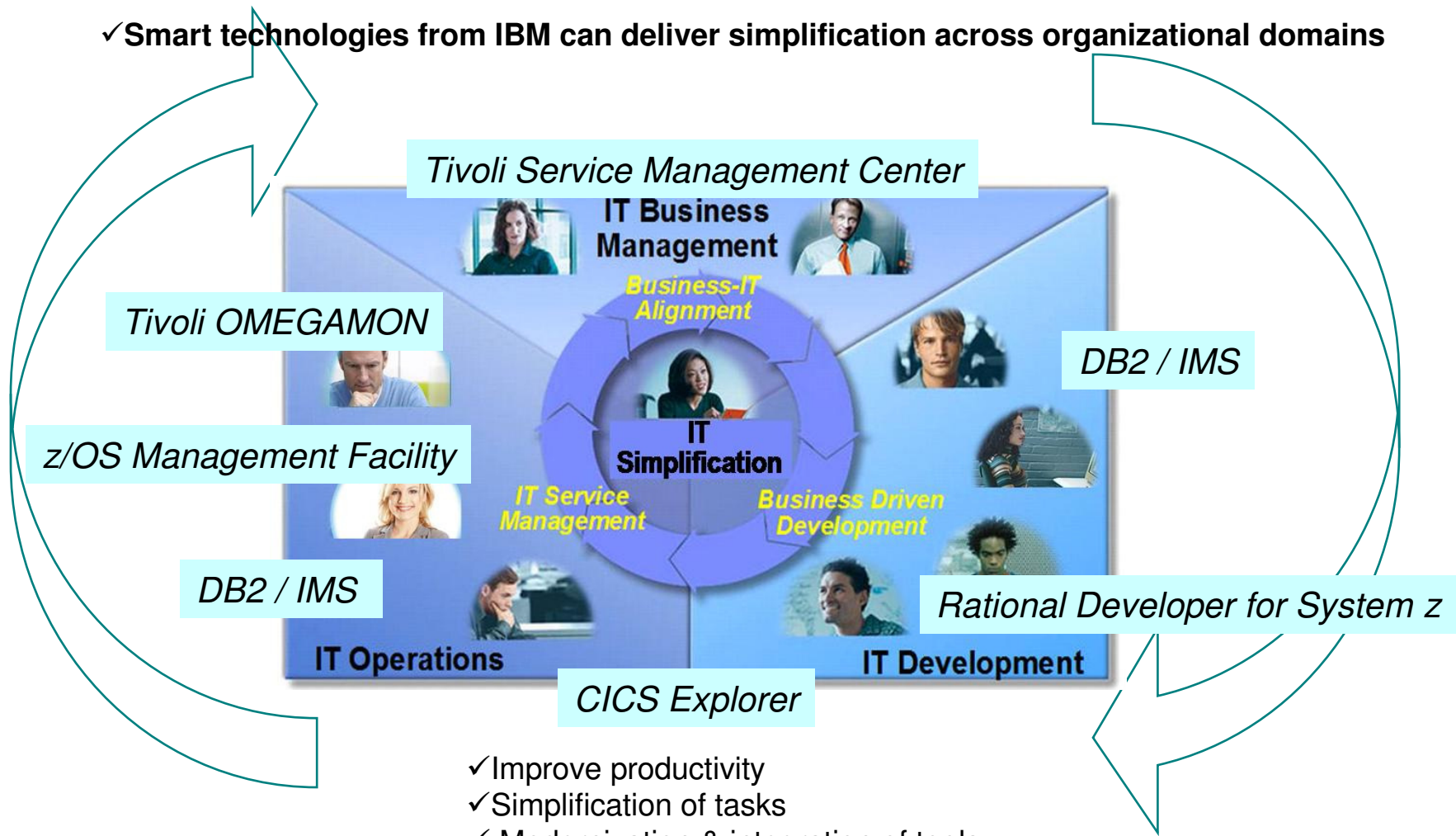
- ✓ Need for simplification of tasks
- ✓ Modernization and integration of tools



- ✓ Within each domain to enhance productivity
- ✓ Across domains to enhance collaboration

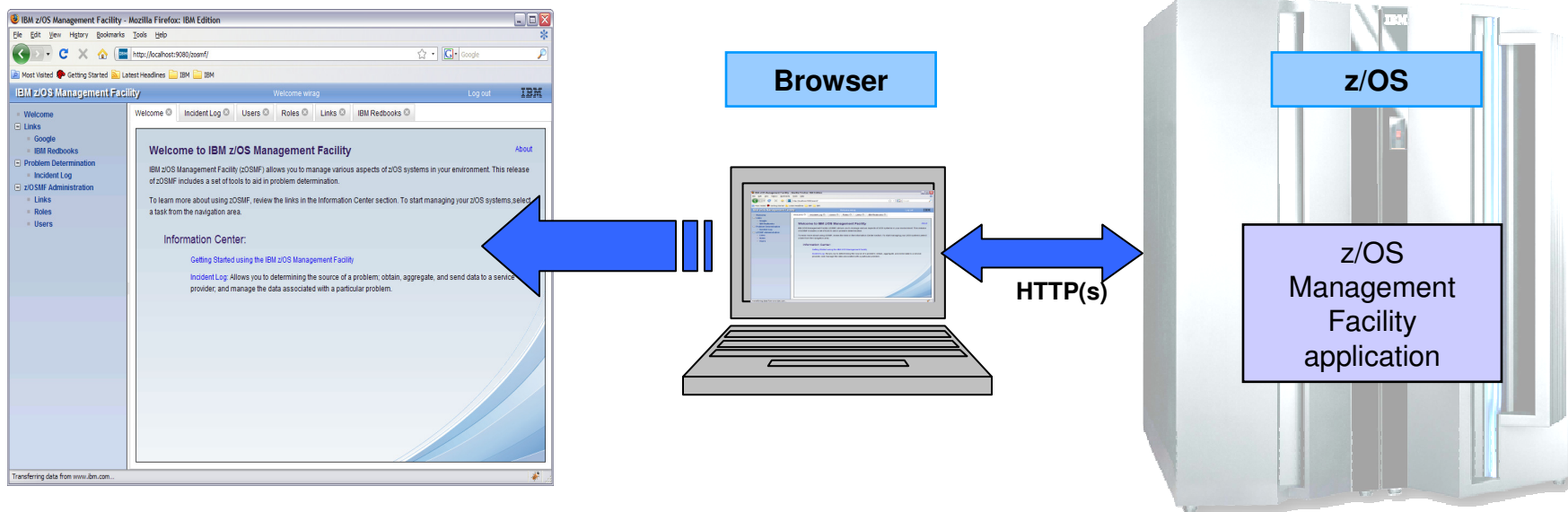
Where does z/OSMF fit in your enterprise?

✓ Smart technologies from IBM can deliver simplification across organizational domains



- ✓ Improve productivity
- ✓ Simplification of tasks
- ✓ Modernization & integration of tools
- ✓ Enhance collaboration

How does z/OSMF fit in the z/OS environment?

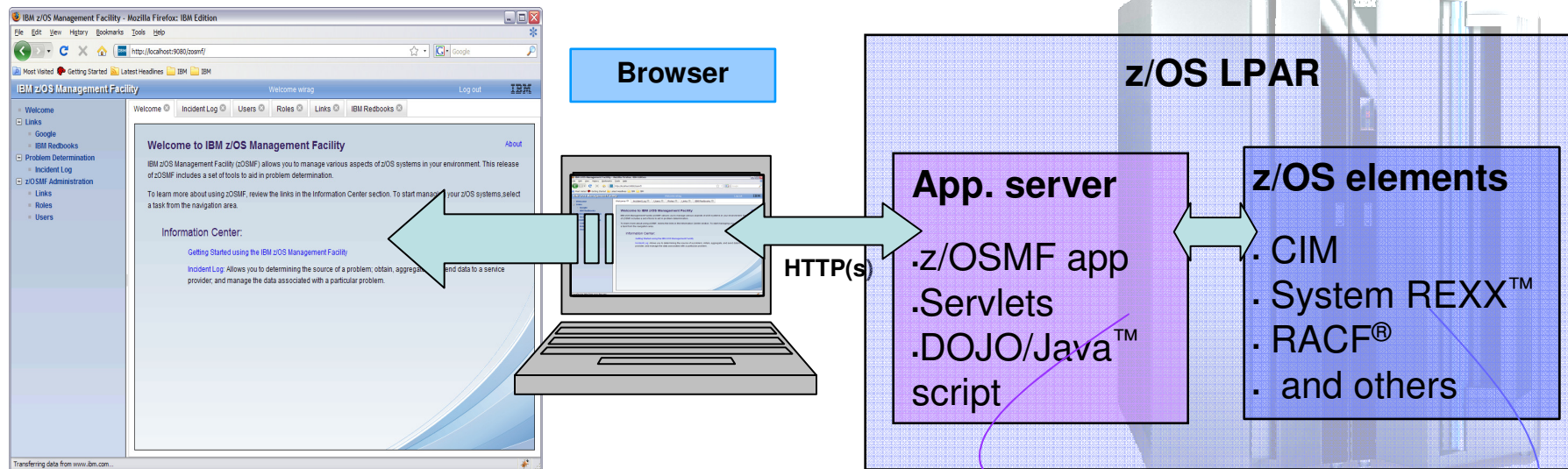


- **z/OS Management Facility is a Web 2.0 application on z/OS**
- **z/OSMF manages z/OS from z/OS, no client install required**
- **Browser communicates with z/OSMF via secure connection,**
 - **Connect from anywhere, anytime, no 3270 emulator required!**
 - **z/OSMF V1R12 is supported on z/OS V1R12**
 - **z/OSMF V1R13 is supported on z/OS V1R13**
 - **z/OSMF V2R1 is planned to be supported on z/OS V2R1***

⁹ * Statements regarding IBM future direction and intent are subject to change or withdrawal, and represents goals and objectives only.

Complete your sessions evaluation online at SHARE.org/SFEval

How does z/OSMF function in the z/OS environment?



z/OS Management Facility is based on industry standards

- Java and Dojo - Dojo is an Open Source DHTML toolkit written in JavaScript. Dojo allows you to build dynamic capabilities into web pages and any other environment supporting JavaScript.
- Parts of z/OS Management Facility, such as Incident Log (R11) and WLM Policy Editor (R12) use JAVA and CIM
- z/OSMF communicates with z/OS security server and other z/OS components as needed by the plug-ins

Java apps and Java-based CIM client eligible for zAAP

z/OS CIM server eligible for zIIP (R11 and up only)

*z/OSMF is planned to be rebased on the Liberty profile in Webshpere application server for z/OS V8.5 in the future. This is expected to provide significant reductions in the resource requirements for z/OSMF and simplify z/OSMF setup considerably. *

* Statements regarding IBM future direction and intent are subject to change or withdrawal, and represents goals and objectives only

Complete your sessions evaluation online at SHARE.org/SFEval

Why would you want z/OSMF?

- z/OSMF improves productivity, reduces errors and simplifies tasks
- z/OSMF addresses the needs for a mixed skilled workforce.
- z/OSMF makes System Programmers who are *new* to the mainframe productive more quickly by:
 - Providing a modern browser-based user interface that is more familiar to those new to the platform
 - Reducing the learning curve with embeded active user assistance in the UI (e.g., wizards that guide users through tasks, online help)
- z/OSMF helps *experienced* System Programmers become more productive by:
 - Making functions easier and less error prone
 - Reduce time to perform some tasks
- z/OS Management Facility is optional for those who prefer traditional interfaces



Why would you want z/OSMF?

What some clients are saying.....

“The z/OS Management Facility initiative has been expanded with a number of new functions available with z/OS V1.13. This product shows great promise of being a great help for the younger z/OS system programmers, who may not have many years of experience with the platform. ”

Bertil Andersson, Senior Enterprise IT Architect, Svenska Handelsbanken

“The IBM z/OS Management Facility is the most important new facility since the Workload Manager and Parallel Sysplex. Every z/OS staff should be planning for their z/OSMF implementation now. This is a 'must have' for the system programmers of tomorrow (or even today). “

Cheryl Watson, Watson and Walker Inc.

See more testimonials in the end

z/OSMF Welcome page



IBM z/OS Management Facility Welcome guest IBM

User ID
Password or pass phrase
Log in

Welcome

IBM Internal Use Only

About

Welcome to IBM z/OS Management Facility

IBM z/OS Management Facility (z/OSMF) allows you to manage various aspects of a z/OS system through a Web browser interface. By streamlining some traditional tasks and automating others, z/OSMF can help to simplify some areas of system management and reduce the level of expertise needed for managing a system.

Log in to utilize and learn more about z/OSMF.

Unauthorized access to this system is prohibited IBM

- Secure connection from browser to z/OSMF host
- To log in you will need a z/OS userID that has been defined and enabled to for z/OSMF (and the WebSphere® runtime environment)
 - Guidance is provided.

z/OSMF V1R13 functions and benefits



IBM z/OS Management Facility

Welcome zosmfad

Log out



- Welcome
- Configuration
 - Configuration Assistant
- Links
 - ShopzSeries
 - Support for z/OS
 - System z Redbooks
 - WSC Flashes & Techdocs
 - z/OS Basics Information Center
 - z/OS Home Page
 - z/OS Internet Library
- Performance
 - Capacity Provisioning
 - Resource Monitoring
 - System Status
 - Workload Management
- Problem Determination
 - Incident Log
- Software
 - Software Management
- z/OS Classic Interfaces
 - ISPF
- z/OSMF Administration
 - Application Linking Manager
 - Links
- z/OSMF Settings
 - FTP Servers
 - Systems

Refresh

• Configuration category

- Configuration Assistant for z/OS Communication Server application
- Simplified configuration and setup of TCP/IP policy-based networking functions

• Links category

- Links to resources - provides common launch point for accessing resources beyond z/OSMF

• Performance category

- Capacity Provisioning (R13) (updated) manage connections to CPMs, view reports for domain status, active configuration and active policy.
- Resource Monitoring, System Status - provide integrated performance monitoring of customer's enterprise
- Workload Manager Policy Editor application
- Facilitate the creation and editing of WLM service definitions, installation of WLM service definitions, and activation of WLM service policies

• Problem Determination category

- Incident Log : provide a consolidated list of SVC Dump related problems, along with details and diagnostic data captured with each incident; facilitate sending the data for further diagnostics.

• Software category (R13) (updated)

- Management: deployment of installed software simpler and safer, manage service levels and product levels

• z/OS classic Interface category (R13)

- ISPF Task integrate existing ISPF into z/OSMF to enable tasks from single interface and ability to launch to ISPF functions directly

• z/OSMF Administration category

- z/OSMF authorization services for administrator:- dynamically add links to non-z/OSMF resources; application linking manager(R13)

• z/OSMF Settings category (New!)

- Manage FTP destinations and systems

Configuration Assistant for z/OS Communication Server



- **A GUI for the z/OS Communications Server Policy Agent – it simplifies the configuration and setup of TCP/IP policy-based networking functions.**
 - **Supports the following technologies**
 - **Application Transparent TLS (AT-TLS)**
 - **IP Security (IPSec) including filters and VPNs**
 - **Network Security Server(NSS)**
 - **Intrusion Detection Services (IDS)**
 - **Policy-based Routing (PBR)**
 - **Quality of Service (QoS)**
 - **Also available as a Microsoft® Windows® Web download (since z/OS V1.7)**
 - **Statement of Direction: z/OS R13 is planned to be the last release for the web download tool. Strategy is to provide it only with z/OSMF**
- **Available with z/OSMF (starting with z/OSMF V1R11 and z/OS V1R11)**
 - **Configuration files can now be saved to local disk storage that is accessible to your z/OS system where the Configuration Assistant is running so FTP (from Windows) is not required**
 - **Can also import configuration text files in cases where users have already defined policies and would like to begin using the Configuration Assistant**
 - **Delivered in z/OSMF R12:**
 - **Support the configuration of IKE version 2.**
 - **Support the configuration of new cryptographic algorithms for IPSec and IKE.**
 - **Support the configuration of FIPS 140 cryptographic mode for IKE.**
 - **Support the configuration of certificate trust chains and certificate revocation lists.**

Configuration Assistant for z/OS Comm. Server



IBM z/OS Management Facility

Welcome zosmfad

Log out

IBM

Configuration Assistant

Navigation tree

- z/OS Images
 - Image - IMAGE1
 - Image - STACK01

Select the technology you want to configure and click Configure.

Select	Technology	Description
<input type="radio"/>	AT-TLS	Application Transparent - Transport Layer Security
<input type="radio"/>	DMD	Defense Manager Daemon
<input type="radio"/>	IPSec	IP Security
<input type="radio"/>	IDS	Intrusion Detection Services
<input type="radio"/>	NSS	Network Security Services
<input type="radio"/>	QoS	Quality of Service
<input type="radio"/>	PBR	Policy Based Routing

Work with settings for z/OS images

Add a New z/OS Image...

To work with a specific z/OS image or TCP/IP stack, select the z/OS image or TCP/IP stack from the navigation tree.

Save Exit

Create configuration files for any number of z/OS images with any number of TCP/IP stacks per image.

Click on "Action" and select "Configure" to begin configuring that technology.

Select the TCP/IP stack that you want to configure and the technology, such as AT-TLS or IPSec.

Config. Assist. for z/OS Communications Server

Updates for z/OSMF R13



- Retrieving TCP/IP profile information from active TCP/IP stacks, enabling it to import lists of IP addresses that are available for policy configuration.
- Allowing a single instance of the Configuration Assistant to be used to configure both z/OS V1.12 and z/OS V1.13 Communications Server. This is intended to allow you to configure systems in a mixed-release environment from a single instance of the Configuration Assistant running under z/OSMF.
- Allowing a policy rule to be defined once for multiple stacks, to permit more efficient policy configuration for multiple systems without having to individually define every policy rule for every stack.
- z/OS Communications Server intrusion detection services (IDS) technology is enhanced to add support for IPv6 traffic and also additional attack types, including Enterprise Extender, data hiding, and out of sequence packet denial of service attacks.

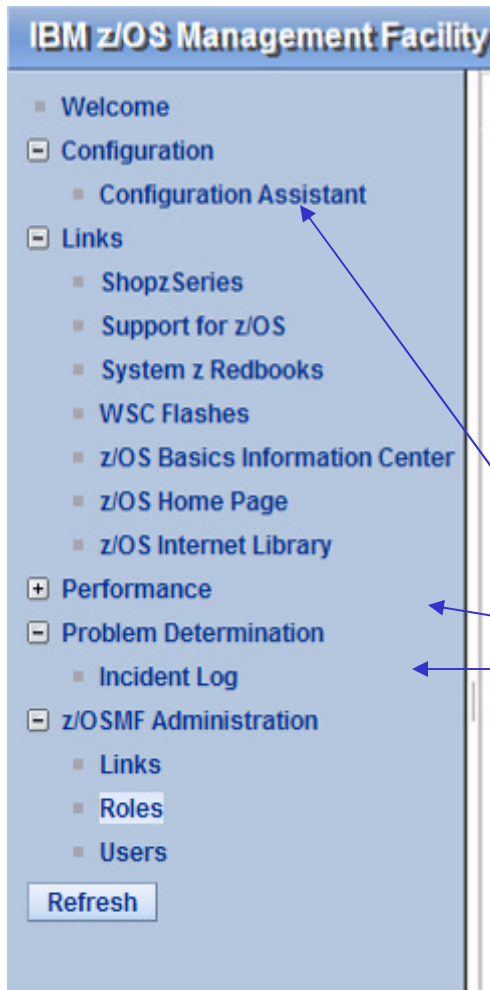
z/OSMF Configuration Assistant for z/OS CS

Benefits

	Without Configuration Assistant** With Policy Agent only	With Configuration Assistant** in z/OSMF GUI for Policy Agent
Filter unwanted network traffic from your z/OS system	<ul style="list-style-type: none"> • Learn how to set up IP filters • Review the IP Configuration Guide <ul style="list-style-type: none"> • Configure the Policy Agent application • Create configuration policy for IP Filter rules • Configure default filter rules in the TCP/IP profile • Configure the TRMD application • Configure the Syslogd application <p>Hours (or even days for initial setup)</p>	<ul style="list-style-type: none"> • Configuration Assistant guidance <ul style="list-style-type: none"> • Go to IP Security Perspective • Add a connectivity rule for an IP Filter • Use Application Setup Tasks to assist with the configuration and setup of the required applications • The Configuration Assistant will generate and help you deploy the configuration files to your z/OS system <p>As little as 30 minutes</p>
Secure your TN3270 server connections with SSL	<ul style="list-style-type: none"> • Manual process • Review the IP Configuration Guide <ul style="list-style-type: none"> • Configure the Policy Agent application • Configure TTLS in the TCP/IP profile • Configure the Syslogd application • Create configuration policy for AT-TLS for your TN3270 Server <p>Hours (or even days for initial setup)</p>	<ul style="list-style-type: none"> • Configuration Assistant guidance <ul style="list-style-type: none"> • Go to AT-TLS Perspective • Select the AT-TLS rule for the TN3270 server and enable • Use Application Setup Tasks to assist with the configuration and setup of the required applications • The Configuration Assistant will generate and help you deploy the configuration files to your z/OS system <p>As little as 30 minutes</p>

Get started faster! The Config. Assistant takes the rules and best practices found in various configuration publications and puts them under a single, simple user interface, saving you much time and effort.

z/OSMF Links



- This category contains the pre-defined links provided by IBM as well as any new links added by the z/OSMF administrator
- The links are available to all users of z/OSMF
- Administrator can define which roles have access to each of the defined links.
- The IBM pre-defined links are accessible to all users, including guests, by default.
- Ability to add non-z/OSMF launch points and links to the left hand side navigation tree under any category. (V1.12)

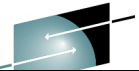
Capacity Provisioning



- Capacity Provisioning is designed to simplify the management of temporary capacity. The scope of z/OS Capacity Provisioning is to address capacity requirements for relatively short term workload fluctuations for which On/Off Capacity on Demand is applicable. It is not a replacement for the Capacity Management process.
- The Capacity Provisioning Control Center (CPCC) is the user front end to *administer* Capacity Provisioning policies
 - Available as a separate Windows-based stand-alone client.
- Initially part of the functionality was integrated into z/OSMF V1.13 to ease the monitoring of CP status for different domains.
 - manage connections to CPMs
 - view reports for domain status, active configuration and active policy.
- ***With APAR PM74519 the z/OSMF Capacity Provisioning application is enhanced to allow you to create, edit, and activate domain configurations and capacity provisioning policies.***
 - *With these new functions z/OSMF Capacity Provisioning supports all the functions available in the Microsoft Windows-based Capacity Provisioning Control Center (CPCC).*

13099 Capacity Provisioning Update for z/OS
1.13 and 1.12 Feb 6, 6:00 p.m.

z/OSMF Capacity Provisioning Function



Manage CIM connections to access a Provisioning Managers

Provisioning Manager

The Provisioning Manager is the component of Capacity Provisioning that controls the domain based on the active policy. Connections describe how to connect to a Provisioning Manager. The connections table shows connection definitions.

Host Address Filter	Protocol Filter	Port Filter
<input type="checkbox"/> Same system as z/OSMF		
<input type="checkbox"/> cpmprod.ibm.com	HTTPS	5989
<input type="checkbox"/> cpctest.ibm.com	HTTP	5988

View detailed status about a domain
Quick switch between reports for same domain

Provisioning Manager > Domain Status

Domain Status for Domain GUI2

This page shows information about the current state of the Provisioning Manager and the domain that it manages. All timestamps below are shown in GMT.

Domain name: GUI2
 Start time: Feb 1, 2011 8:42:53 AM
 Processing mode: Autonomic
 Processing mode activation time: Nov 15, 2010 9:23:12 AM
 Configuration name: TC067#1
 Configuration activation time: Jan 25, 2011 10:45:11 AM
 Policy name: TC057#1T
 Policy activation time: Jan 21, 2011 4:14:49 PM

View information about the active configuration for a domain
Drill down to CPC or system

Provisioning Manager > Active Configuration

Active Configuration for Domain GUI2

This page shows information about the active domain configuration and the status of its CPCs and z/OS systems.

Active configuration: TC067#1 Status: Enabled

CPCs Systems

CPC name Filter	Correlation status Filter	Record ID Filter	Active MSU Filter	Active zAAPs Filter	Active zIIPs Filter	Enabled Filter	Enabled default Filter
<input type="radio"/> R35	Matched	34937149	1140	2	1	<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled
<input type="radio"/> ECL2	Matched	34937149				<input checked="" type="checkbox"/> Enabled	<input checked="" type="checkbox"/> Enabled

View information about the active policy for a domain
Drill down to policy element

Provisioning Manager > Active Policy

Active Policy for Domain GUI2


This page shows information about the active policy. All timestamps below are shown in GMT.

Active policy: TC057#1T Status: Enabled

Actions Table view: Tree

Type Filter	Name Filter	Current status Filter	Details Filter
<input type="radio"/> Policy	TC057#1T	<input checked="" type="checkbox"/> Enabled	
<input type="radio"/> Logical processor scope			
<input type="radio"/> Processor limit	PLEX1.SYS1		CP limit: Max. possible; zAAP limit:
<input type="radio"/> Max. provisioning scope			
<input type="radio"/> Processor limit	CPC1		MSU limit: 0; zAAP limit: 0; zIIP li

z/OSMF Capacity Provisioning (R13) Benefits

	Without Capacity Provisioning in z/OSMF**	With Capacity Provisioning in z/OSMF**
View active CP policy and compare with data provided by RMF and WLM 	Start stand-alone Windows-based client (CPCC) for Capacity Provisioning, connect to CPM and display active configuration report. Open z/OSMF in a browser and inspect RMF and WLM data. 5 – 10 minutes until all tasks are completed	Use integrated z/OSMF GUI to work with CP, RMF and WLM and compare data provided by each exploiter. 2 – 3 minutes until all tasks are completed
Operating person needs to reuse existing connection	Connection information like hostname, protocol and port needs to be manually gathered from primary person. Available domains must be known. Up to 5 minutes	Usage of shared connection repository in z/OSMF. List of available domains is retrieved from server and shown to user. No extra time to be spent
Installation of the capacity provisioning UI application**	Install Windows client (CPCC) on workstation. Hard to install on managed clients, 20 minutes otherwise	Centrally managed z/OSMF application available to all authorized users. No extra time to be spent

The z/OSMF Capacity Provisioning task requires the base feature z/OS Capacity Provisioning

** Based on IBM laboratory results, your results may vary

** NOTE: Monitoring only, complete set of CPCC management functionality is not provided in V1.13 so far,

z/OSMF Resource Monitoring



- The z/OSMF Resource Monitoring application provides integrated performance monitoring in the customer's environment
- Supports z/OS sysplexes and Linux® images (System z® and Intel®) in your installation
 - Requires the RMF z/OS Data server (DDS) on each sysplex being monitored and the Linux data gatherer (rmfpms) running on the Linux image that is being monitored.
- With z/OS V1.13 and z/OSMF V1.13, RMF has new CIM-based performance data gatherers for Linux on System z, Linux on System x, and AIX systems to provide a consistent monitoring solution for zEnterprise ensembles.
- There are two z/OSMF tasks: *Resource Monitoring and System Status*
 - Resource Monitoring task:
 - Monitor most of the metrics supported by the Resource Measurement Facility (RMF™) Monitor III, create and save custom views of the metrics, and display real-time performance data as bar charts. Predefined views provided for a quick start. Advanced filtering features for focused monitoring
 - System Status task:
 - Quickly Assess the performance of the workloads running on the z/OS sysplexes in your environment. The System Status task also provides a configuration where you can define the z/OS sysplexes and Linux images to be monitored in the Monitoring Desktops task.

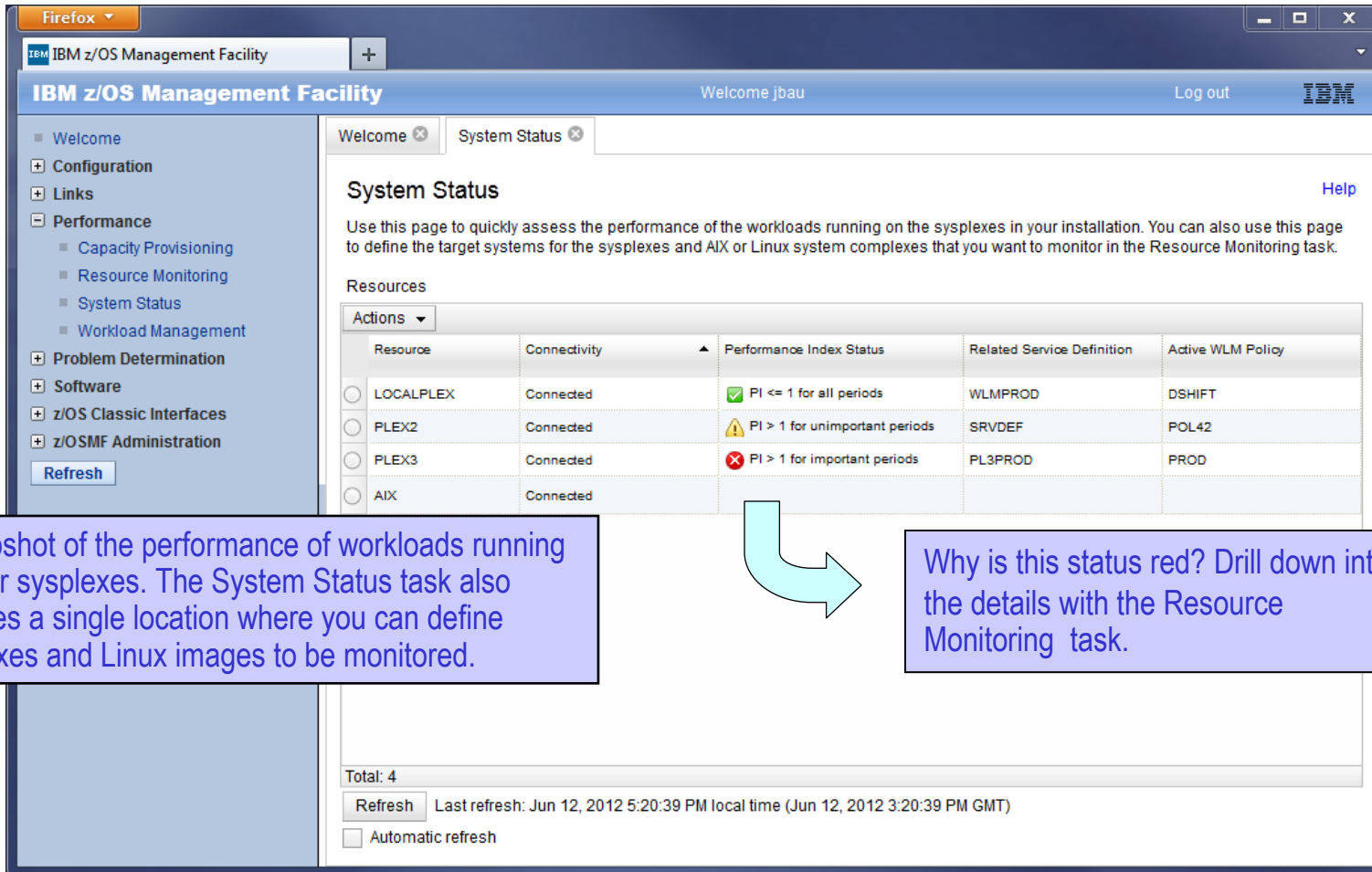
Session 3086 RMF: The Latest and Greatest
Feb 7 8:00 - 9:00 a.m.

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2013

Resource Monitoring : System Status



The screenshot shows the IBM z/OS Management Facility System Status page. The page title is "System Status" and it includes a "Help" link. The main content area displays a table of resources with their connectivity and performance index status. The table has columns for Resource, Connectivity, Performance Index Status, Related Service Definition, and Active WLM Policy. The resources listed are LOCALPLEX, PLEX2, PLEX3, and AIX. LOCALPLEX has a green checkmark indicating a good status (PI <= 1 for all periods). PLEX2 has a yellow warning triangle indicating a status of PI > 1 for unimportant periods. PLEX3 has a red X indicating a status of PI > 1 for important periods. AIX has a green checkmark indicating a good status. Below the table, there is a "Total: 4" summary, a "Refresh" button, and a checkbox for "Automatic refresh".

Resource	Connectivity	Performance Index Status	Related Service Definition	Active WLM Policy
<input type="radio"/> LOCALPLEX	Connected	✓ PI <= 1 for all periods	WLMPROD	DSHIFT
<input type="radio"/> PLEX2	Connected	⚠ PI > 1 for unimportant periods	SRVDEF	POL42
<input type="radio"/> PLEX3	Connected	✗ PI > 1 for important periods	PL3PROD	PROD
<input type="radio"/> AIX	Connected			

Total: 4
Refresh Last refresh: Jun 12, 2012 5:20:39 PM local time (Jun 12, 2012 3:20:39 PM GMT)
 Automatic refresh

A snapshot of the performance of workloads running on your sysplexes. The System Status task also provides a single location where you can define sysplexes and Linux images to be monitored.

Why is this status red? Drill down into the details with the Resource Monitoring task.

Resource Monitoring: Monitoring Dashboards



IBM z/OS Management Facility Welcome zosmfad Log out IBM

Welcome x Resource Mon... x Help

Resource Monitoring

Dashboards

Dashboards

Actions

Name
<input type="checkbox"/> Filter
<input type="checkbox"/> Common Storage Activity
<input type="checkbox"/> Coupling Facility Overview
<input type="checkbox"/> Execution Velocity
<input type="checkbox"/> General Activity
<input type="checkbox"/> Overall Image Activity
<input type="checkbox"/> Performance Index
<input type="checkbox"/> Response Time
<input type="checkbox"/> Using & Delays
<input type="checkbox"/> XCF Activity

Total: 9, Selected: 0

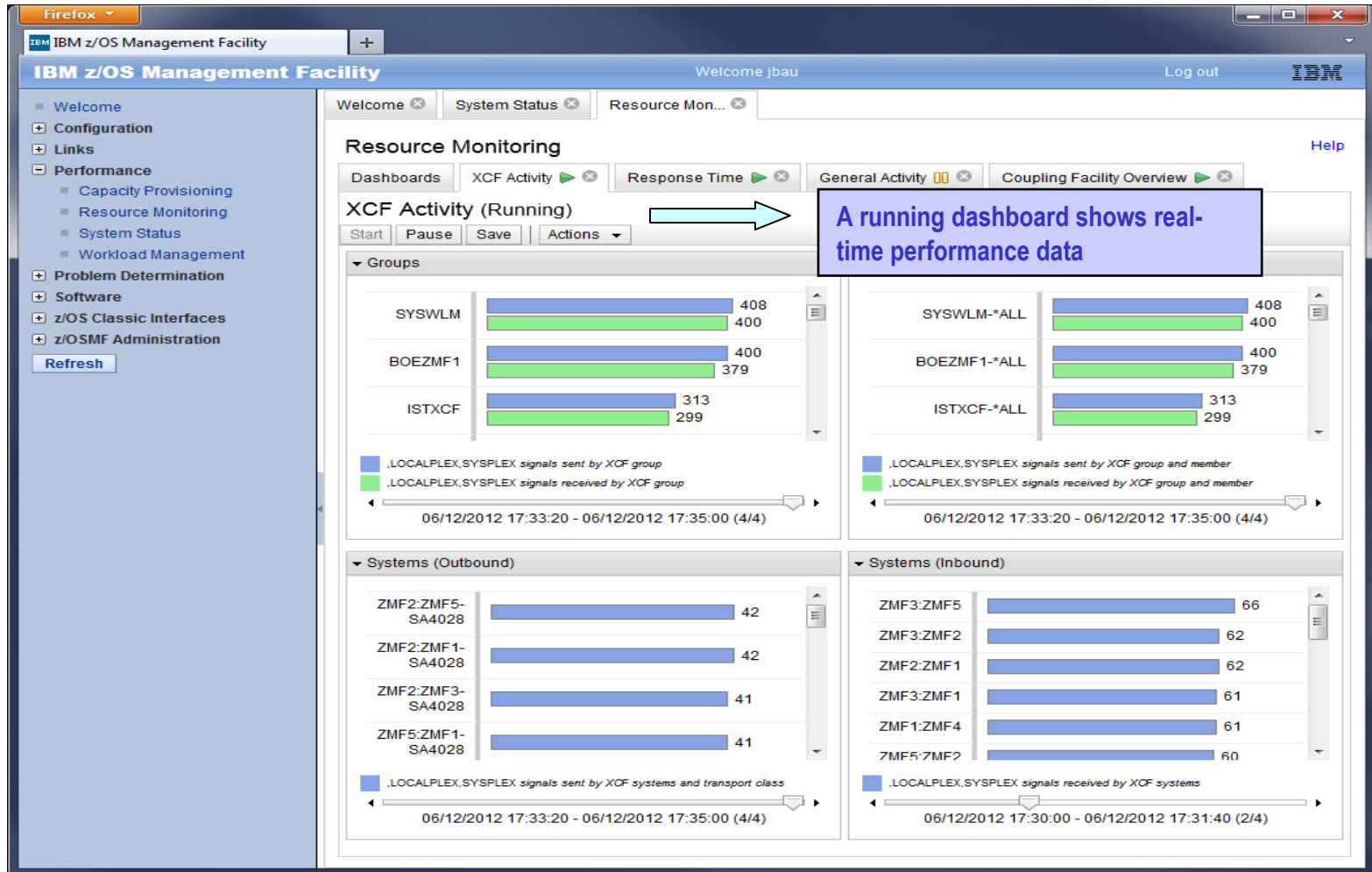
Refresh Last refresh: Jan 23, 2013 4:19:25 PM local time (Jan 23, 2013 9:19:25 PM GMT)

Click to open the dashboard

Pre-loaded with standard metrics. Can be customized, can add your own.

Monitor most of the metrics supported by the Resource Measurement Facility (RMF™) Monitor III, create and save custom views of the metrics, and display real-time performance data as bar charts.

Monitoring Dashboard - example



Dashboards – add a metric



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

Resource Monitoring

Have integrated z/OS and Linux metrics monitoring in one view

Add Metric

Select or type the name of the metric group, the container for the metric. Then, select the resource and metric to be monitored.

Add to metric group:

Selected resource: S1,*,STORAGE

Selected metric: *Make selection on Metric tab*

Available resources:

- ,LOCALPLEX,SYSPLEX
- ,S1,MVS_IMAGE
 - S1,*,I/O_SUBSYSTEM
 - S1,*,PROCESSOR
 - S1,*,STORAGE
 - S1,*,ENQUEUE
 - S1,*,OPERATOR
 - S1,*,SW_SUBSYSTEMS
- ,3A236,CPC
- [?],SYSPLEX

Filter Pattern

Available resource names:

- SCLM*MASTER*
- SCLMAU
- SCLMALLOCAS
- SCLMALX
- SCLMALX1
- SCLMAMAD
- SCLMANTAS000
- SCLMANTMAIN
- SCLMADDC

Resource name filter pattern: SCLM*

Sorting

Sort by: Value descending

Filters

Lower threshold: to Upper threshold:

Complete your sessions evaluation online at SHARE.org/SFEval



z/OSMF Resource Monitoring

Benefits



	Without z/OSMF Resource Monitoring (using RMF ISPF Monitor III Reporter)	With z/OSMF Resource Monitoring
Checking the performance status for several sysplexes	<p>You need a Monitor III Reporter session on each sysplex, and manually consolidate data from different reports. (Monitoring of Linux resources has to be done with other tools)</p> <p>Up to 15 minutes to look up each sysplex and high degree of skill needed to interpret reports</p>	<p>Cross-sysplex performance monitoring from a single point of control with a quick red-yellow-green health indicator for your systems on a single panel. (Linux monitoring features are fully integrated.)</p> <p>Just seconds to see the health of all your sysplexes (and Linux images)</p>
Explore & compare the processor usage of specifics jobs	<p>Tabular reports are a fixed layout and can be viewed only one at a time with limited ability to customize and filter the data presentation. You have to manually consolidate data from different reports</p> <p>A long time, depending on data required and correlations needed. In some cases, generating reports is not possible.</p>	<p>The monitoring desktops are fully customizable. Specific metrics of selected resources can be added to a desktop and are presented as charts. Multiple desktops can be started in parallel in different tabs. Advanced filtering features allow you to conduct more sophisticated performance analysis.</p> <p>About 5 minutes to set up a custom monitoring desktop, 3 key clicks to view real-time statistics</p>

** Based on IBM laboratory results, your results may vary

Complete your sessions evaluation online at SHARE.org/SFEval

z/OSMF Workload Management



- WLM Policy Editor available on the z/OS Management Facility provides
 - All the same functions as in the 'as is' Web-download tool and many new features
 - Direct access to the WLM Couple Data Set to install/extract service definitions. No need to FTP WLM policy files!
 - Activation of service policies and monitoring of the WLM status in the sysplex
 - Enables you to manage WLM service definitions

IBM z/OS Management Facility

Welcome zosmfad

Log out

IBM

Welcome Workload Man...

Workload Management

Overview Service Definitions

Store all service definitions in one repository

Service Definitions

Name	Description	Activity Filter	Sysplex Filter	Messages	Last Modified (GMT)	Modified By
SHARPLE1	WLM Policy for SHARE System old			Warning	May 9, 2012 8:47:00 AM	zosmfad
SHARPLE0	WLM Policy for SHARE System old			Warning	Jan 30, 2012 7:21:15 PM	zosmfad
SHARPLEX	WLM Policy for SHARE System			Warning	May 3, 2006 1:33:28 PM	hackett
WLMPRO01 (installed & active)	Production policy-01		SHARPLEX	Information	May 24, 2012 1:25:12 PM	mfusr01
WLMPROD	Production policy			Warning	Oct 4, 2011 7:56:00 PM	mfusr19
WLMTEST	Test policy			Information	Feb 3, 2011 12:17:57 PM	stwirag

Click to view, edit, print, install a service definition

Messages based on built in best practice checks

Total: 6, Selected: 0

Refresh Last refresh: Jun 2, 2012 11:37:29 AM local time (Jun 2, 2012 3:37:29 PM GMT)

z/OSMF Workload Management (V1.12) functions



- Integrates repository to store service definitions
- Import and export of service definitions in XML format
- Printing of service definitions
- Creation, editing, reviewing of service definitions in tabular format
- Direct navigation between policy elements during editing/viewing of service definitions
- Best-practice checking for service definitions
- Supports the installation of service definitions and the activation of service policies
- Displays WLM status of systems in sysplex

The screenshot shows the 'Workload Management' interface with the 'Service Definitions' tab selected. A context menu is open over the table, showing options like 'Modify Service Definition', 'View Service Definition', and 'Service Definition Details'. The table below shows several service definitions with their status, last modified dates, and modified by users.

Name	Sysplex Filter	Messages	Last Modified (GMT)	Modified By
SHARPLE		Warning	May 9, 2012 8:47:00 AM	zosmfad
SHARPLE		Warning	Jan 30, 2012 7:21:15 PM	zosmfad
SHARPLE		Warning	May 3, 2006 1:33:28 PM	hackett
WLMPROD	SHARPLEX	Information	May 24, 2012 1:25:12 PM	mfusr01
WLMPROD		Warning	Oct 4, 2011 7:56:00 PM	mfusr19
WLMTEST		Information	Feb 3, 2011 12:17:57 PM	stwirag

z/OSMF Workload Management (V1.12)

Editing service definitions



- Simplified creation, modification and review of service definitions
 - Policy elements are presented in tables; Tables can be edited, filtered, and sorted
 - Best-practice hints are displayed automatically
 - Several service definitions can be opened simultaneously
 - Serialization of the editing of the active service definition
 - Simplified migration: Policy elements can be copied from one service definition to another
 - Simplified operation: A user can start to edit a service definition, interrupt the editing to activate a service policy, and then continue with editing without losing the context
 - Cut, Copy, Paste of policy elements between service definitions

The screenshot shows the IBM z/OSMF Workload Management interface. The main window displays a table of Service Classes. A callout box points to a '92' warning icon in the Velocity Goal column, stating: "Best-practice hints help to optimize service definitions". Another callout box points to a context menu for the selected row (DB2BPID), with the 'Copy to Clipboard' option highlighted, stating: "Copy to clipboard for insertion into another service definition". A third callout box points to the 'View Performance of Selected' option in the context menu, stating: "Easy to check where the element is used".

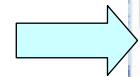
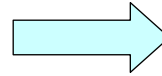
Name	Period	Importance	Duration	Goal Type	Response Time Goal (hh:mm:ss.ttt)	Percentile Goal	Velocity Goal	CPU Critical	Resource Group	Workload	Descr
AK1								No		STC	Vel
AK1	1	1		Velocity			92	No		STC	RT 8
AK2								No		STC	Vel
AK3								No		BATCH	defa
BTCHDEF								No		BATCH	DB2
DB2BP4								No		BATCH	DB2
DB2BP6								No		BATCH	DB2
DB2BPID								No		BATCH	Disc
DISC								No		BATCH	MEC
ECP								No	ECP	BATCH	MEC
ELPAR								No	ELPAR	BATCH	HIGH
ELPMAX								No	ELPMAX	BATCH	LOW
ELPMIN								No	ELPMIN	BATCH	OA1
JBERHIGH								No		BATCH	

z/OSMF Workload Management

Updates for z/OSMF R13



- Separate authorization levels for
 - Viewing of service definitions, service policies, and WLM status
 - Installation and activation of service policies
 - Modification of service definitions
- Settings of a user are persisted between sessions
 - Sorting/filtering/configuration of (tree)-table columns
 - Recently used data set names during import/export of service definitions
 - Selections in Print Preview Filter dialog
 - Selections in Export to Local Workstation dialog



Session 13100 Manage your Workloads and Performance with z/OSMF
Feb 7 9:30 a.m.

z/OSMF WLM Policy Editor

Benefits



	Without WLM Policy Editor** using ISPF WLM Application	With WLM Policy Editor** in z/OSMF
Optimization of a service definition based on best-practices	Read through WLM-related manuals and identify best-practices. Print out the service definition and investigate it with respect to proposed best-practices. If required, modify the policy elements correspondingly. Hours (or days when done initially)	Check the best-practice hints the GUI displays for policy elements. If required, modify the policy elements correspondingly. Minutes (or hours when done initially)
Review of service definitions for daily changes, migration, consolidation	To get an overview of a service definition you have to print it to a data set, download the data set, and print it out or feed it into the Service Definition Formatter tool to filter and sort policy elements. 5-10 minutes until review can start	Open a service definition from the service definition repository. Navigate through it using links. Filter and sort policy elements in the tables. Seconds until review can start
Transfer policy elements from a test service definition to a production service definition	Print out the test service definition and update the production service definition by typing in the changes. Up to several minutes per policy element	Open the test and production service definition simultaneously and copy over the changed policy elements via copy&paste operations. Seconds per policy element

** Based on IBM laboratory results, your results may vary

z/OSMF Incident Log



- **Focus on Problem data management**
 - Identifying system-detected problems
 - Initial focus is on Abend and user initiated SVC dumps
 - Providing a consolidated view of all system detected problems in a sysplex and management of incidents
 - Improved FFDC for system-detected problems
- **Reduced time and skill required to collect and send diagnostic data for analysis**
 - Collect and manage diagnostic data “snapshots” via Auto-capture of basic diagnostic materials, triggered when the dump is written to a data set, managed via PARMLIB member
 - **Snapshots of 30 min Operlog or Syslog, 1 hr Logrec detail, and 4-hour Logrec summary**
 - Incident Log will support the creation of diagnostic log snapshots based on the SYSLOG and LOGREC data sets, as well as the OPERLOG and LOGREC sysplex log streams
 - Allow doc to be tersed and FTP'd to IBM (or ISV) without having to keep track of where logs are archived via easy to use interface
 - sending materials to IBM or another company's support area
- **Manage incidents with z/OSMF Incident log application:**
 - Manage the list of incidents across the sysplex (Filter/ sort/ configure/ delete)
 - Display properties – view incident details and list of diagnostic data, logs
 - Set properties: associate problem number and tracking id , add notes
 - Send diagnostic data via FTP: Manage FTP jobs status and define FTP Profiles (firewall), support for encrypted and parallel FTP to IBM
 - Send additional user-defined diagnostic data
 - Allow next dump with simplified informing to DAE to take the next dump for the incident's symptom string

Incident Log – manage incidents



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

[Welcome](#)
[Configuration](#)
[Links](#)
[Performance](#)
[Problem Determination](#)

- Incident Log

[Software](#)
[z/OS Classic Interfaces](#)
[z/OSMF Administration](#)
[z/OSMF Settings](#)
[Refresh](#)

Incident Log [Help](#)

Match: All filters

Incident Type	Description	Date and Time (GMT)	System	Problem Number	Tracking ID	Notes	Release	Product	Component Name	Component ID
AND Contains "abend"	Filter	AND Past 500 days	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
<input type="checkbox"/> ABEND S0EC3	COMPON=WEBSPPHERE Z/OS, COMPID=5655N0200,ISSUER=BBORAD MP,ABEND IN PC ROUTINE BBOOOUTP	Jan 17, 2013 2:54:15 AM	S1				V1R13			5655N0200
<input type="checkbox"/> ABEND S00D6	COMPON=WEBSPPHERE Z/OS, COMPID=5655N0200,ISSUER=BBORLEX T,ABEND IN (MODULE NAME NOT KNOWN)	Jan 11, 2013 2:13:53 PM	S1	1234,123,123			V1R13			5655N0200
<input type="checkbox"/> ABEND S0EC3	COMPON=WEBSPPHERE Z/OS, COMPID=5655N0200,ISSUER=BBORLEX T,ABEND IN (MODULE NAME NOT KNOWN)	Jan 11, 2013 2:13:53 PM	S1				V1R13			5655N0200
<input type="checkbox"/> ABEND S00C1	ZTT TIENDUMP SVCDUMP DUMP FOR PROBLEM # 1,CAT=300DC7F8,JOB#=01000002	Jan 10, 2013 3:27:51 PM	S1				V1R13			
<input checked="" type="checkbox"/> ABEND S00C1	ZTT TIENDUMP SVCDUMP DUMP FOR PROBLEM # 1,CAT=300DC7F8,JOB#=01000001	Jan 10, 2013 3:27:02 PM	S1				V1R13			

Actions

- Set Tracking ID...
- Set Problem Number...
- Add Notes...
- Delete Incident...
- Send Diagnostic Data...
- View Diagnostic Details
- FTP Job Status
- Allow Next Dump...

Total: 14, Filtered: 5, Selected: 1

[Refresh](#) Last refresh: Jan 23, 2013 4:44:43 PM local time (Jan 23, 2013 9:44:43 PM GMT)

Select incident, get popup with actions

Incident Log – Incident Details



IBM z/OS Management Facility Welcome zosmfad log out IBM

Welcome x Incident Log x

Incident Log ▶ View Diagnostic Details

View Diagnostic Details Help

General Diagnostic Data ← **Tab shows lists of data (logrec and error log)**

Incident type: ABEND
Incident description: COMPN=WEBSPPHRE Z/OS, COMPID=5655N0200,ISSUER=BBORADMP,ABEND IN PC ROUTINE BBOOOUTP
Date and time (GMT): Jan 17, 2013 2:54:15 AM
Sysplex name: SHARPLEX
System name: S1
Problem number: Identify the problem number as an IBM PMR and verify the syntax.
Tracking ID:
Component name:
Component ID: 5655N0200
z/OS release: V1R13
Product:
Abend code: S0EC3
Reason code: 04130007
CSECT: BBOOOUTP
Load module: BBOOPCRT
Symptom string: MOD/BBOOPCRT CSECT/BBOOOUTP PIDS/5655N0200 AB/S0EC3 REXN/BBOOOUTP FI/98BCD04007FE0DC0A7CA0994 HRC1/04130007 SUB1/SR#OUTBOUND#PC#ROUTINE
APAR search terms: BBOOOUTP ABENDEC3 RSN04130007 5655N0200
APAR release of z/OS: R780
Notes:

OK Apply Cancel

Set Tracking ID...
Set Problem Number...
Delete Incident...
Send Diagnostic Data...
View Diagnostic Details
FTP Job Status
Allow Next Dump...

Incident Log – Diagnostic Data



IBM z/OS Management Facility

Welcome debug13

Log out

Welcome Links Incident Log Workload Man... Configuratio...

Incident Log > View Diagnostic Details

View Diagnostic Details

General Diagnostic Data

Data Type	Source	Sysplex	System
<input type="checkbox"/> SVC dump	ZMFDUMP.DYNZOS12.P03.D100114.T153115.SV000	SVPLEX6	P03
<input type="checkbox"/> Error log	CEA.L00.C56360D8.A3D56F9E	SVPLEX6	P03
<input type="checkbox"/> Operations log	CEA.O00.C56360D8.A3D56F9E	SVPLEX6	P03

Total: 3, Selected: 0

Attachments

To send additional information that you think is relevant for this incident, such as a trace, use the **New...** action in the following table to specify the files to send. You can attach up to five additional files per send. The information about the attachments is discarded when you close the panel.

New...

Data Type	Source
There is no data to display.	

Total: 0, Selected: 0

Send View Status

OK Apply Cancel

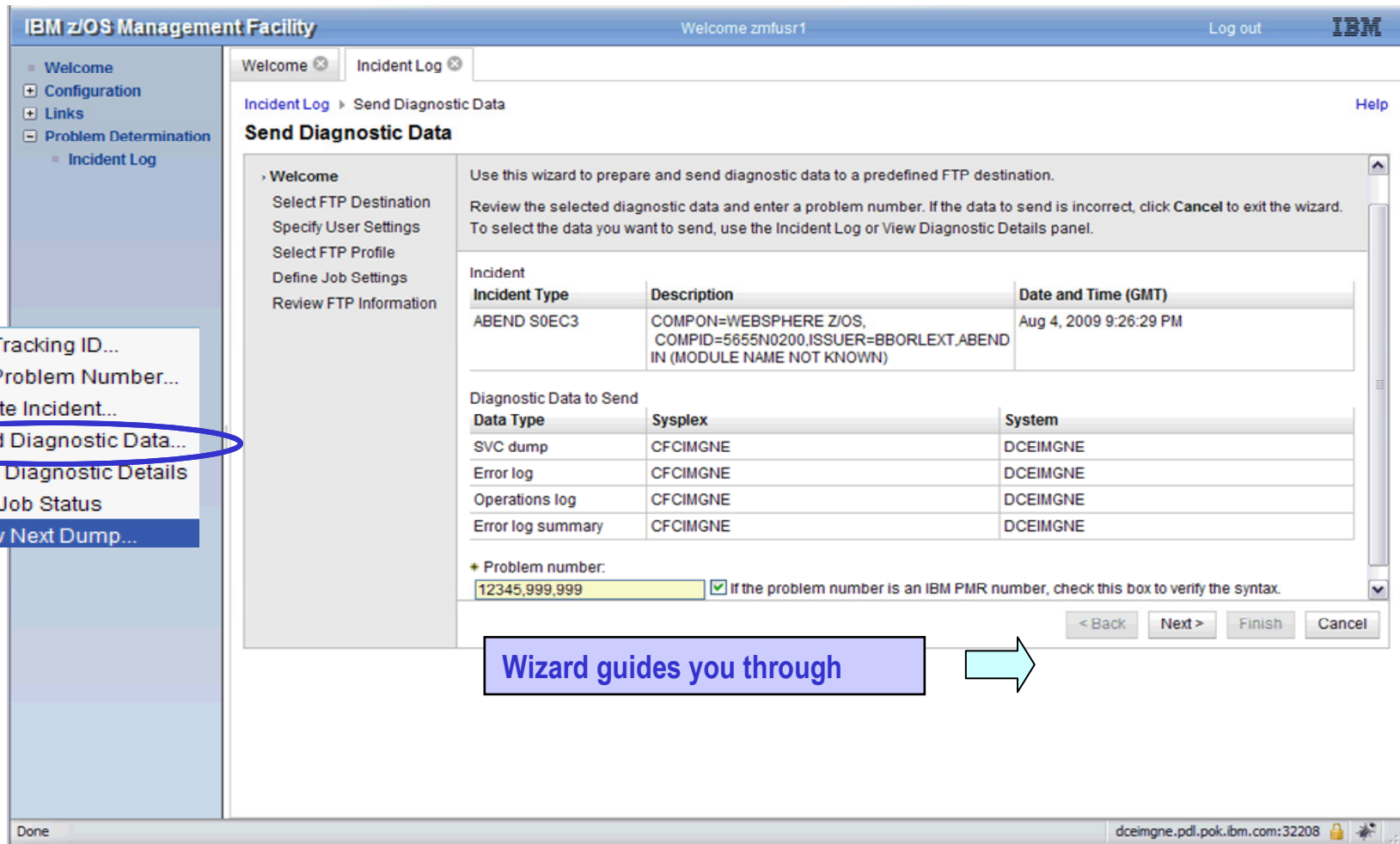
Done

9.12.41.62:32208

- Set Tracking ID...
- Set Problem Number...
- Delete Incident...
- Send Diagnostic Data...
- View Diagnostic Details**
- FTP Job Status
- Allow Next Dump...

Attach user defined diagnostic data (V1.12)

Incident Log – Send Diagnostic Data



IBM z/OS Management Facility Welcome zmfusr1 Log out IBM

Welcome Incident Log

Incident Log > Send Diagnostic Data Help

Send Diagnostic Data

Use this wizard to prepare and send diagnostic data to a predefined FTP destination.

Select FTP Destination
Specify User Settings
Select FTP Profile
Define Job Settings
Review FTP Information

Review the selected diagnostic data and enter a problem number. If the data to send is incorrect, click **Cancel** to exit the wizard. To select the data you want to send, use the Incident Log or View Diagnostic Details panel.

Incident	Description	Date and Time (GMT)
ABEND S0EC3	COMPON=WEBSPPHERE Z/OS, COMPID=5655N0200,ISSUER=BBORLEXT.ABEND IN (MODULE NAME NOT KNOWN)	Aug 4, 2009 9:26:29 PM

Diagnostic Data to Send	Sysplex	System
SVC dump	CFCIMGNE	DCEIMGNE
Error log	CFCIMGNE	DCEIMGNE
Operations log	CFCIMGNE	DCEIMGNE
Error log summary	CFCIMGNE	DCEIMGNE

* Problem number:
12345,999,999 If the problem number is an IBM PMR number, check this box to verify the syntax.

< Back Next > Finish Cancel

Done dceimgne.pdl.pok.ibm.com:32208

Set Tracking ID...
Set Problem Number...
Delete Incident...
Send Diagnostic Data...
View Diagnostic Details
FTP Job Status
Allow Next Dump...

Wizard guides you through

Incident Log - *updates for z/OSMF 1.13*

- **FTP destination and Firewall Proxy settings shared with Software deployment**
 - Saved under new Settings Category, FTP servers task (new)
 - Can be updated during the wizard and can be locked for update
- **The name of file being transmitted is also included in the message when FTP job is submitted**
- **Support the PDUU included with z/OS as of R13**
- **Use of [ftp.data](#) when using PDUU**
- **Use of system temp dataset for working with Unix files also – compressing before sending**
- **Retain search string added in the View Diagnostic Details**

- **Migrated dataset handling**
 - In the past, working with migrated diagnostic data sets could be lengthy resulting in timeouts; now z/OSMF can process migrated data sets with improved handling
 - z/OSMF APAR - PM46302
 - z/OS CEA APAR – OA37149

- **Managing deletion of incidents –**
 - **CEATool OA38812 , UA65835**
 - Delete multiple incidents at a time that satisfy criteria
 - Deletes the diagnostic data that is associated with the incidents that will be deleted. That is: error log, error log summary, operations log, the entry for the dump in the sysplex dump directory and optionally, the SVC dump dataset.
 - The utility deletes only inactive incidents that are not associated with a problem number or tracking ID.

- **Editing JCL for sending data**
 - **APAR PM74518**
 - The z/OSMF Incident Log application will allow for customization of the generated JCL to help you develop an appropriate job stream customized for your environment.
 - This is implemented via an 'Edit JCL' option in the Send Diagnostic Data wizard.
 - Note: This is an advanced function and not recommended for general users.

z/OSMF Problem Determination – Incident log

Benefits



	Without z/OSMF Incident Log **	With z/OSMF Incident Log **
Recognizing a system-detected (dumped) problem occurred	<p>Requires 5 to 7 manual steps, plus skill on effective use of IPCS to extract data from each of the dumps.</p> <p>Up to 5-6 minutes</p>	<p>Display in 1 click. Greatly reduced skill required</p> <p>As little as 5 seconds</p>
Allow new dump to be taken for the same symptom	<p>Requires 7 to 12 manual steps, plus skill on effective use of IPCS to locate the dump data set, obtain the symptom string, get into the IPCS DAE display, locate the matching symptom string (could be non-trivial) and indicate TakeNext on the IPCS display</p> <p>Up to 15 minutes</p>	<p>Make the update happen in 3 mouse clicks</p> <p>As little as 10 seconds</p>
Collecting and sending diagnostic data	<p>Requires 7 to 15 manual steps, plus skill to locate the right log files, build and run jobs, rename the output datasets, and use an FTP job to send the different data sets to the target destination.</p> <p>Up to 20 minutes Up to 30 minutes for sysplex components</p>	<p>Send the material in 8 clicks:</p> <ul style="list-style-type: none"> •Select the incident materials •Specify the FTP destination information •Send the material •Check whether the information was FTP'd successfully <p>As little as 30 seconds</p>
Viewing diagnostic datasets within context	<ul style="list-style-type: none"> •Context switch to ISPF green screen interface, login if necessary, manual input of dataset name. •Up to 1 minute 	<ul style="list-style-type: none"> •2 clicks to open diagnostic dataset •As little as 7 seconds



“So easy, even a marketing professional can use it!” – Gita Grube Berg, IBM System z Marketing

40 ** Based on IBM laboratory results, your results may vary
Complete your sessions evaluation online at SHARE.org/SFEval

Software Management



The z/OSMF Software Management application (was previously called Software Deployment) extends the Software Deployment task to provide additional actions on instances of SMP/E installed software. available on z/OS V1.13 with the PTF for APAR PM73833.

The Software Management task supports

- deploying a software instance,
- inspection of a software instance to view the product, feature and FMID content, and view the physical data sets that compose a software instance.
- actions to analyze and report on software instances and products within instances to:
 - Identify software products that are approaching, or have reached, end of service support, thus helping customers with upgrade and migration planning.
 - Identify missing HIPER and PE fixes, and fixes associated with one or more fix categories to help customers assess the risks and stability of installed software and ensure hardware and software requisites are installed.
 - Validate the SMP/E structure and content of a software instance is correct by cross-check SMP/E inventory information with catalog entries, volume residency and data set content.
 - 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.

These new functions are designed to help you manage your system software more easily.

Visit Session 13082 New z/OSMF Software Management Capabilities; Feb 7 - 8:00 am

Software Management



The screenshot shows the IBM z/OS Management Facility web interface in Mozilla Firefox. The browser address bar shows the URL <https://mvs1.centers.host.com:32208/zoomf/>. The page title is "IBM z/OS Management Facility" and the user is logged in as "mfusr01".

The left navigation pane includes the following menu items:

- Welcome
- Configuration
- Links
- Performance
 - Capacity Provisioning
 - Resource Monitoring
 - System Status
 - Workload Management
- Problem Determination
 - Incident Log
- Software
 - Software Management
- z/OS Classic Interfaces
 - ISPF
- z/OSMF Settings

A "Refresh" button is located at the bottom of the navigation pane.

The main content area displays the "Software Management" section. It includes a "Welcome" tab and a "Software Man..." tab. The "Software Management" heading is followed by a description: "Use this task to view details about your software inventory, including related products, features, FMIDs, data sets, deployments, and SYSMODs. [Learn more...](#)"

Below the description is a table with the following content:

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.

Products view



Management Facility Welcome zosmfad Log out

Welcome Software Man...

Software Management ▶ Products Help

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: ▼

Product	Release	Product ID	Messages	Vendor	General Availability	End of Service	Additional Product Information
Filter	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	✔ Not Announced	http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&subtype=sm&appname=ShopzSeries&htmlfid=897/ENUS5655-G44
<input type="checkbox"/> z/OS	01.12.00	5694-A01		IBM	Sep 24, 2010	✔ Not Announced	http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=dd&subtype=sm&appname=ShopzSeries&htmlfid=897/ENUS5694-A01
<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"/> 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/ENUS5697-P10
<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
<input type="checkbox"/> 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
<input type="checkbox"/> 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-bin/ssialias?infotype=dd&subtype=sm&appname=ShopzSeries&htmlfid=897/ENUS5648-B33

Total: 27, Selected: 0

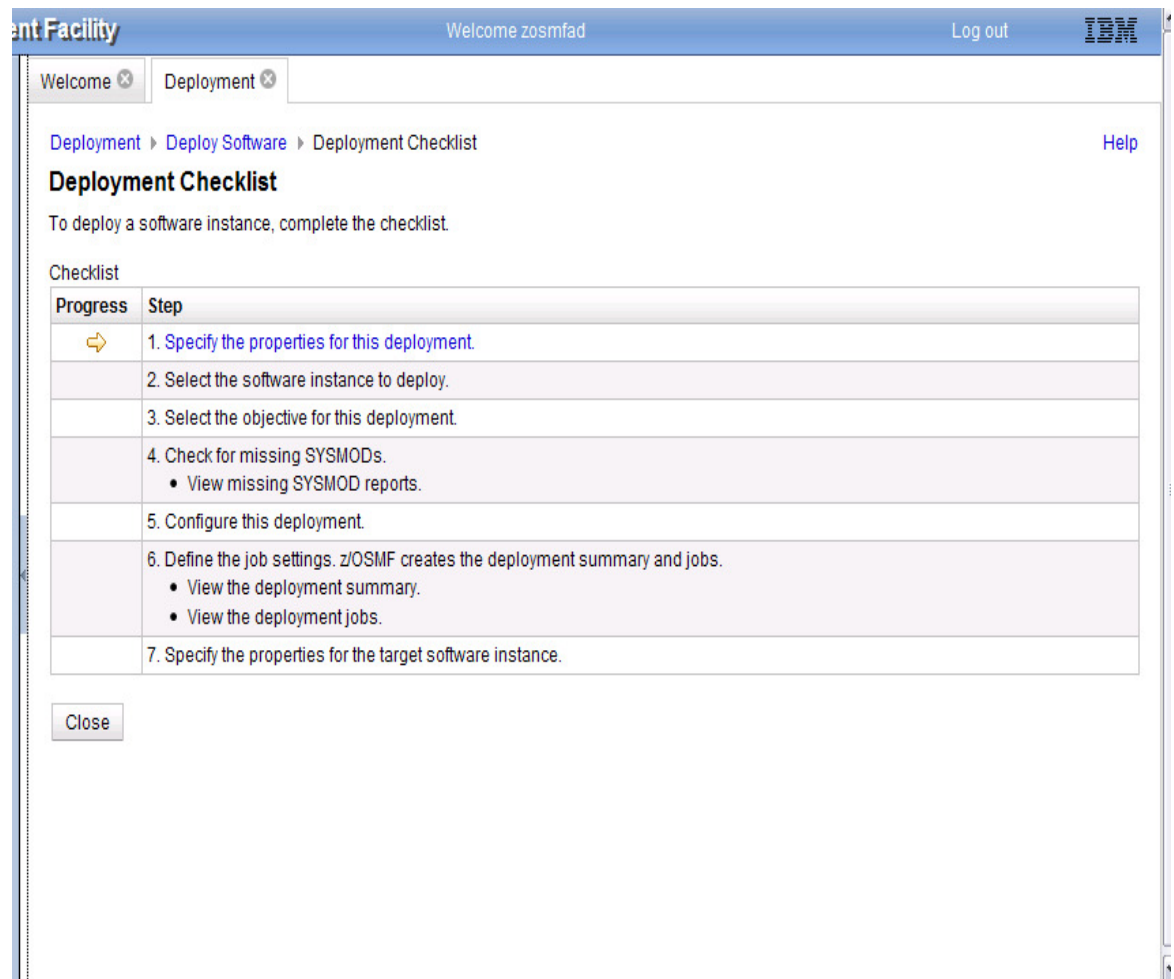
Last refresh: Jan 29, 2013 10:10:49 PM

Software Deployment

- **Software Deployment makes cloning of installed software simpler and safer**
 - Replaces manual and error prone procedures with a user friendly application, and
 - Codifies IBM recommended best practices for software deployment.
- **Scope of software managed**
 - All SMP/E installed software, IBM or non-IBM
 - Service upgrades for all of the above (via complete replacement)
- **Software deployment key functions include**
 - Verify cross system and cross product software requisites are satisfied.
 - Verify software fixes are not regressed.
 - Clone ALL parts of the software (including the SMP/E CSI inventory)
 - Generate jobs to perform the cloning
- **Software Deployment will clone software**
 - Locally, either on a single system or system-to-system within a sysplex
 - Remotely, system-to-system across a network and multiple sysplexes

Software deployment checklist

- **Software Deployment uses a checklist approach to guide you through all the steps of a deployment.**
 - **Select the software to deploy (a software instance)**
 - **Report missing requisites and possible regressions**
 - **Select the deployment objective**
 - **Configure the target software instance**
 - **Validate the configuration against the target system, Summarize the deployment actions, and Generate the deployment jobs**
 - **Execute the deployment jobs**



Deployment Facility Welcome zosmfad Log out IBM

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

z/OSMF Software Deployment (R13)

Benefits



Task	Without z/OSMF Software Deployment	With z/OSMF Software Deployment
Identify missing requisite PTFs on instances that will share resources with the deployed software.	<ul style="list-style-type: none"> manually create and run SMP/E jobs to identify missing required service on other instances. Analyze smpe report output manually Missing coexistence PTFs can cause sysplex wide outages which require fallback to prior levels. Deep smpe skills required 	<ul style="list-style-type: none"> 2 wizard steps in the deployment checklist to generate the complete report Supports cross-system checking. Fewer skills, simpler
Identify regressed software on the prior level instance and identify required actions from PTF HOLDs.	<ul style="list-style-type: none"> manually create and run SMP/E job to compare source with prior instance. Can not be done if source and prior instance are on different systems. Manually identify the delta and required actions No SMP/E report capability to compare source with the prior instance available. Ignoring actions or regressing service on the target system causes problems to occur. 	<ul style="list-style-type: none"> 3 wizard steps in the deployment checklist to generate the complete report Supports cross-system checking. Few minutes (can be combined with previous action)
Identify complete content of software to be deployed.	<ul style="list-style-type: none"> manually analyze SMP/E inventory to identify the correct content to deploy. More typical is to deploy entire volumes or data sets by prefix. This requires strict volume and data set name conventions, which contribute to user errors. For example: <ul style="list-style-type: none"> Copy PDSE without UNIX file system (was common with WAS V6) Copy one data set without another causing partial APAR fixes. Renaming a data set causes it to not be copied. 	<ul style="list-style-type: none"> Automatically use specified SMP/E inventory to identify all of the data sets that compose the source to be deployed.

z/OSMF Software Deployment (R13)

Benefits



Task	Without z/OSMF Software Deployment	With z/OSMF Software Deployment
Modify the target software layout (data set names, location, and catalog).	<p>Manual:</p> <ul style="list-style-type: none"> •Define target system datasets, volumes and catalogs. •ensure the desired catalogs will be updated and new HLQs are identified •Best-guess for volume free space and required space for target data sets. •Mistakes typically require cleanup and deployment jobs to be rerun. •Hours 	<p>Automated checklist and wizard will;</p> <ul style="list-style-type: none"> •Analyze target system catalogs to identify which will be updated for the target data sets, accounting for new, deleted, and replaced data sets. •Calculate volume free space and ensure target data sets will fit. Account for data sets added, deleted, replaced. •Ensure no existing data sets are accidentally clobbered. •Few minutes
Create deployment jobs.	<ul style="list-style-type: none"> •Create jobs from scratch or copy IBM supplied samples. Manual and error prone. •Easily allows users to mistakenly deploy subsets of software. •Inhibits exploiting new technologies, like zFS. 	<ul style="list-style-type: none"> •Complete and accurate jobs are automatically created that always deploy complete software instances. •Supports current technologies.
View the planned target system updates before running the jobs.	<ul style="list-style-type: none"> •If done at all, manually compare source with the target system. 	<ul style="list-style-type: none"> •Automatically generate reports to summarize the changes to the target system before making those changes. •Save reports for later audit or problem determination.

z/OSMF and ISPF (R13) Work with existing interfaces

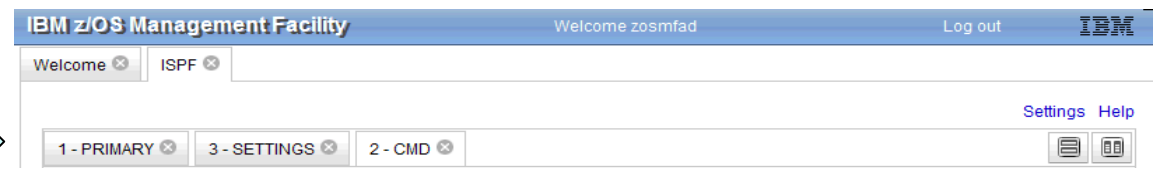
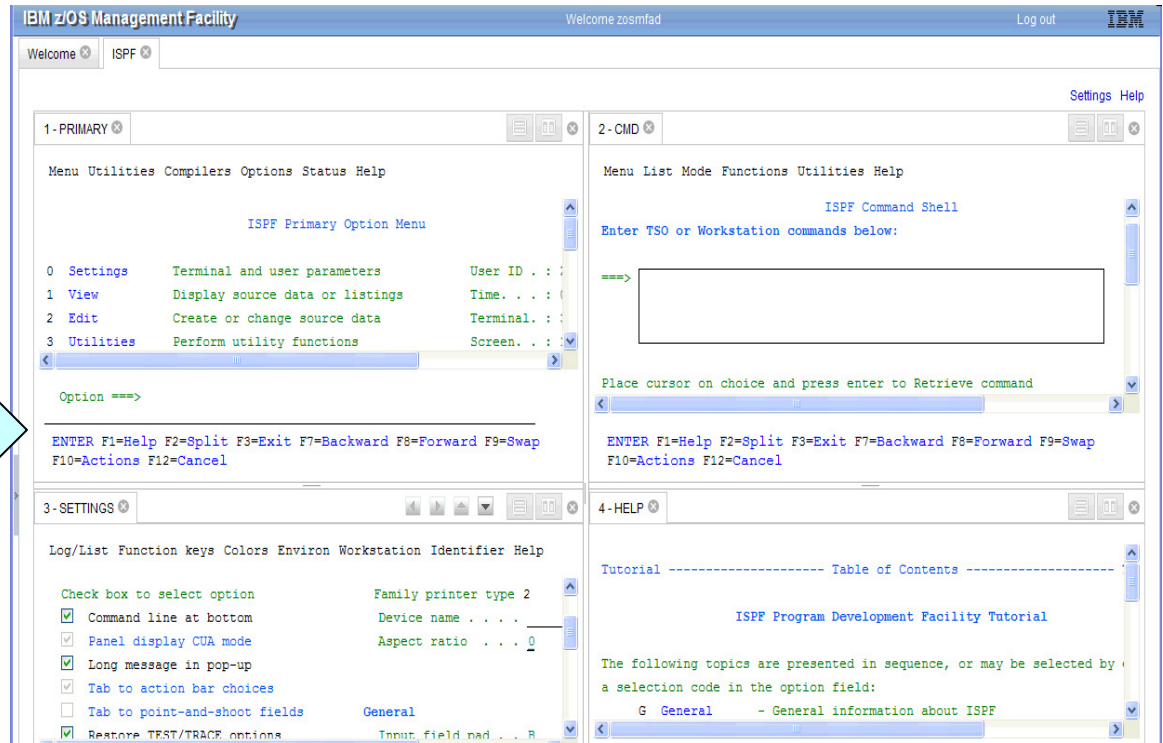


- Enables system programmer to perform tasks from one interface.
- Makes ISPF applications URL Web-accessible for linking and launching from other applications

- Up to 4 panes
 - Panes can be sized. Each pane can have multiple ISPF sessions, tabs can be moved between panes
 - Shows ISPF Menu bar, Command line, Function keys

- Multiple logins with profile sharing enabled

- Also available in tabbed format



z/OSMF and ISPF (R13) Additional screens

z/OSMF ISPF User Settings

When defining the user settings, color selections will take effect with the next z/OSMF ISPF page refresh. All other settings require you to log out and log in again.

Logon procedure: CEANN
 Region size: 2048 pages
 Account number: ACCTNO
 User group: USRGROUP
 Profile sharing: On
 Screensize rows: 204 columns: 160
 Code page: United States (1047, 697)
 Language: English

Map colors from z/OS ISPF to z/OSMF ISPF.

z/OS ISPF colors:	z/OSMF ISPF colors:
Sample blue text	Sample blue text
Sample red text	Sample red text
Sample pink text	Sample pink text
Sample green text	Sample green text
Sample turquoise text	Sample turquoise text
Sample yellow text	Sample yellow text
Sample white text	Sample black text

Show settings dialog with every logon.

OK Apply Cancel Help

- **Customize settings**

Welcome | ISPF | TSO Messages Settings Help

1-PRIMARY | TSO Messages

```

ENTER DATA SET NAME -
IMUSER.BCD.TRACE
--RECYN-LRECL-BLRSIZE-DORG
FB  80  6160  **
--VOLUMES--
PAGE08
TIME-10:14:12 AM. CPU-00:00:00 SERVICE-6527 SESSION-00:00:42 JANUARY 13, 2011
ENTER DATA SET NAME -
  
```

OK Attention Clear Help

ENTER F1=Help F2=Split F3=Exit F4=Backward F5=Forward F6=Swap F10=Actions F12=Cancel

- **TSO messages have priority and pop up**

Welcome | ISPF | 1-SDSF

Display Filter View Print Options Search Help

SDSF STATUS DISPLAY ALL CLASSES LINE 1-19 (81)

NP	JOBNAME	JobID	Owner	PrtY	Queue	C Pos	S&F	ASys	Status
---	DOSMFAD	TS000077	DOSMFAD	15	EXECUTION		SY1	SY1	
---	DOSMFAD	TS000081	DOSMFAD	15	EXECUTION		SY1	SY1	
---	SYSLOG	STC00002	*MASTER*	15	EXECUTION		SY1	SY1	
---	VTAM44	STC00007	*****	15	EXECUTION		SY1	SY1	ARBELEM
---	XCF1MON	STC00008	IMUSER	15	EXECUTION		SY1	SY1	
---	GRS1MON	STC00011	*****	15	EXECUTION		SY1	SY1	
---	ZFS	STC00015	DFS	15	EXECUTION		SY1	SY1	
---	INIT	STC00020	IMUSER	15	EXECUTION		SY1	SY1	
---	INIT	STC00021	IMUSER	15	EXECUTION		SY1	SY1	
---	INIT	STC00022	IMUSER	15	EXECUTION		SY1	SY1	
---	TCAS	STC00023	IMUSER	15	EXECUTION		SY1	SY1	
---	BPZAS	STC00026	IMUSER	15	EXECUTION		SY1	SY1	
---	BPZAS	STC00028	IMUSER	15	EXECUTION		SY1	SY1	
---	RESOLVER	STC00040	TCPIPMS	15	EXECUTION		SY1	SY1	
---	TCPIP	STC00041	TCPIP	15	EXECUTION		SY1	SY1	ARBELEM
---	BRNS001	STC00046	WSCH01	15	EXECUTION		SY1	SY1	ARBELEM

COMMAND INPUT ==> SCROLL ==>

ENTER F1=HELP F2=SPLIT F3=END F4=RETURN F5=IFIND F6=BOOK F7=UP F8=DOWN F11=RIGHT F12=RETRIEVE

- **Example: SDSF status**

Other enhancements to z/OSMF 1.13



- Support for Internet Explorer 9 and Mozilla Firefox ESR 10
- The z/OSMF Incident Log application allows you to modify its default JCL to meet the needs of your organization (APAR PM74518)
- The z/OSMF ISPF application is enhanced to get the completion status of long running commands, without any user intervention (APAR PM74507)
- With APAR PM74502 on z/OSMF V1R13, the Systems and FTP Servers tasks are available under z/OSMF Settings.
 - The Systems task allows you to define the settings required for z/OSMF to access other systems in your installation and to define the HTTP proxy settings for z/OSMF to use when establishing an HTTPS connection to another system.
 - The FTP Servers task allows you to define the settings required for z/OSMF to access the FTP servers that are running on internal or external systems and to define the settings for z/OSMF to use when transferring files between systems.
- Usability: Additional filter capabilities are designed to improve ease of use for the user. The z/OSMF table filtering support has been enhanced to allow for AND/OR filtering as well as case sensitive filtering for more granular filtering capabilities (APAR PM74502)

New programmatic interface for z/OSMF



- **z/OSMF R13 introduces a new REST API (HTTP(s)) interface to z/OS for submitting and accessing batch job information.**
- **Z/OSMF R13 enables Cross application linkage and context sensitive launching between z/OSMF applications and also between z/OSMF applications and external applications**
 - **Via programmatic interface and GUI interface**
- **Visit session 13061: z/OSMF Advanced Functionality**

z/OSMF V2.1*

- z/OSMF is planned to use the Liberty profile in WebSphere Application Server for z/OS V8.5.
 - This is expected to provide significant reductions in the resource requirements for z/OSMF
 - No more WASOEM FMID, reduces the size and separate configuration
 - Simplified z/OSMF setup
 - Reduced steps to configure z/OSMF
 - Applying service is easier
 - Faster startup

* Statements regarding IBM future direction and intent are subject to change or withdrawal, and represents goals and objectives only.

z/OSMF V2.1*

- A new z/OSMF Workflow Application is planned.
- This application is designed to allow exploiters to provide configuration assistance for functional setup tasks to simplify z/OS configuration.
- This application is planned to route tasks among a number of defined users or people assigned to specific roles, such as "system programmer" and "security administrator," to complete setup tasks.
- z/OSMF user notified of assigned workflow steps via Notification task
- Plan to provide a guided flow through steps to accomplish a task

* XML metadata file contains steps and details

* Statements regarding IBM future direction and intent are subject to change or withdrawal, and represents goals and objectives only.

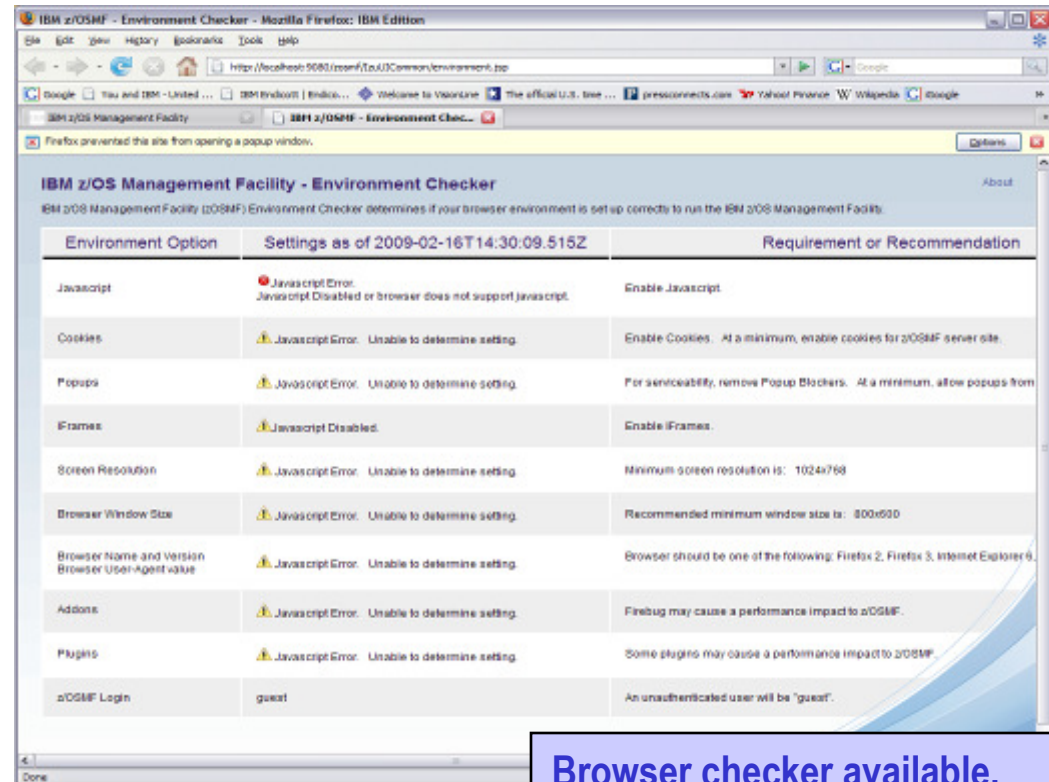
Additional details on usage

- **z/OSMF operating environment**
 - One instance of z/OSMF can manage only one local system or sysplex
 - Multiple users may log into the same instance of z/OSMF from different workstations/browsers
 - From one client system, user can manage additional sysplexes by opening new browser windows (or tabs) and logging into the z/OSMF instance installed on those sysplexes (one browser per system/sysplex).
 - Only one active instance of z/OSMF is supported within a sysplex at any point in time.
 - Additional instance may be created e.g for test or service update or backup, but it should not be actively managing the systems at the same time (e.g. working on the same incident concurrently from 2 separate instances of z/OSMF) or using the same data repository.
- **z/OSMF can coexist with other ISV products**
 - For example, all setup instructions are provided for RACF, but z/OSMF will operate with other security products with equivalent instructions

Prerequisites



- **z/OSMF V1R12**
 - Requires z/OS R12
 - Client machine
 - Windows XP, Windows Vista, and Windows 7
 - Mozilla Firefox 3.0, 3.5 (recommended)
 - Internet Explorer® 7, 8
 - Support added for Windows 7 64 bit
 - 32bit version of FF3.5 and IE8
 - Requires PM27082
 - Firefox 3.6 also found to work
 - Ignore message IZUG809W
- **z/OSMF 1.13**
 - Requires z/OS R13
 - Client machine
 - Windows Vista, Windows 7 (32 & 64 bit), and Windows XP
 - Mozilla Firefox 3.5, 3.6, ESR 10
 - Internet Explorer 7, 8, 9
 - Later releases of Mozilla Firefox known to work.
 - Ignore message IZUG809W



Browser checker available. Your browser connects to the z/OS Management Facility and checks the browser settings

Additional information

- **z/OS Management Facility website**
 - <http://ibm.com/systems/z/os/zos/zosmf/>
- **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**
- **z/OS Hot Topics, Issue 21, 23 and 25:**
 - http://ibm.com/systems/z/os/zos/bkserv/hot_topics.html
- **Program Directory for z/OS Management Facility** GI11-2886
- **IBM z/OS Management Facility User's Guide** SA38-0652
- **IBM WebSphere Application Server OEM Edition for z/OS Configuration Guide, Version 7.0** GA32-0631
- **IBM z/OS Management Facility License Information** GC52-1263

z/OSMF SHARE Sessions - San Francisco

ID	Day	Time	Title	Presenters	Location
13059	2/5	9:30 – 10:30	z/OSMF What is it? And why would I want it?	Anuja Deedwaniya	Franciscan B, Ballroom Level
13052	2/5	12:15 – 1:15	13052: Engaging Users and Reducing Complexity: z/OSMF Project Usability Discussion	Geoff Smith	Franciscan B, Ballroom Level
13061	2/6	1:30 – 2:30	z/OSMF Advanced Functionality	Anuja Deedwaniya	Franciscan B, Ballroom Level
13048	2/6	6:00 – 7:00	z/OSMF Roundtable	Anuja Deedwaniya	Franciscan B, Ballroom Level
13099	2/6	6:00 – 7:00	Capacity Provisioning Update for z/OS 1.13 and 1.12	Juergen Baumann	Yosemite C, Ballroom Level
13082	2/7	8:00 – 9:00	New z/OSMF Software Management Capabilities	Greg Daynes	Franciscan B, Ballroom Level
13089	2/7	8:00 – 9:00	RMF: The Latest and Greatest	Brad Snyder	Yosemite C, Ballroom Level
13100	2/7	9:30 – 10:30	Manage your Workloads and Performance with z/OSMF	Juergen Baumann	Yosemite C, Ballroom Level
12752	2/7	11:00 – 12:00	z/OSMF Hands-On Lab	Anuja Deedwaniya	Union Square 23-24, Fourth Floor
13040	2/7	4:30 – 5:30	z/OSMF User Experience	Doug Henry (US Bank) Mary_Anne Matyaz (U.S. Customs) Anuja Deedwaniya(IBM)	Imperial A, Ballroom Level
12753	2/8	8:00 – 9:00	z/OSMF Software Deployment Hands-on Lab	Marna Walle Greg Daynes	Union Square 23-24, Fourth Floor
13070	2/8	8:00 – 9:00	z/OSMF Software Management Hands-on Lab	Greg Daynes	Union Square 23-24, Fourth Floor

3 / Complete your sessions evaluation online at SHARE.org/SFEval

in San Francisco
2013

Summary

- The IBM z/OS Management Facility is a new product for z/OS customers that provides support for a modern, Web-browser based management console for z/OS.
- z/OSMF delivers solutions in a task oriented user interface. The initial functions in z/OSMF 1.11 include:
 - **Configuration Assistant for z/OS Communication Server**
 - Simplified configuration and setup of TCP/IP policy-based networking functions
 - **Incident Log**
 - The Incident Log provides a consolidated list of SVC Dump related problems, along with details and diagnostic data captured with each incident. It also facilitates sending the data for further diagnostics
 - **Links**
 - Links to resources - provides common launch point for accessing resources beyond z/OSMF
 - **z/OSMF Administration**
 - z/OSMF authorization services for administrator: add users, define roles, dynamically add links to non-z/OSMF resources

Summary – z/OSMF V1.12 Enhancements

- **WLM policy editor:**
 - Create, edit, and install WLM service definitions
 - Activate WLM service policies
 - Monitor of the WLM status of a sysplex and the systems in a sysplex
- **Resource Monitoring:**
 - provides integrated performance monitoring in the customer's environment
 - Supports z/OS z/OS sysplexes and Linux® images (System z® and Intel®) in your installation
 - Integrated monitoring from a single point of control
 - Drill-down into resource attributes and metrics
- **z/OSMF interface:**
 - Designed to allow you to add links programmatically to the z/OSMF Navigation tree
- **Continued enhancements to Incident Log and Configuration Assistant for Communication server**

Summary – z/OSMF V1.13 highlights



- **A new software management capability to simplify management and cloning of installed software**
- **A new Capacity Provisioning Manager application is designed to support easier managing of z/OS Capacity Provisioning Manager (CPM)**
- **ISPF in the web as a z/OSMF Classic interface**
- **Application Linking and context sensitive launching enablement between z/OSMF applications and also between z/OSMF applications and external applications**
- **RESTful APIs for z/OS job management**
- **Improved z/OSMF authorization with SAF mode**
- **Ongoing enhancements to existing functions**

Backup

What our customers are saying.....

“We are using z/OSMF primarily for Workload Management (WLM) and z/OS Communication Server purposes. The WLM component is amazing. It simplifies the maintenance of the WLM policy and makes it much easier to review and update. It also alerts us to warnings and errors in our policy. The Configuration Assistant is being utilized for z/OS Communication Server AT-TLS and IPSec configuration. We are also using Incident Log, which seamlessly retrieves error data and sends it to IBM for analysis. This function has greatly simplified the daily work of a system programmer. “

‘Large Government Customer’

What our customers are saying.....

My z/OSMF migration from V1R11 to V1R13 went very smoothly! Of all the new features in V1R13, I was particularly interested in the new software Deployment capability for cloning and deploying software. I found it easy to use and especially liked that it supports any SMP/E installed product. I plan to use it with our ISV products. 'Information Technology and Marketing Services'

We are using z/OSMF 1.12 and the Incident Log function is very efficient. After entering the PMR number, the diagnostic data were sent in just a few clicks!
'Large equipment manufacturing'

“Being relatively new to the Systems Programming role, IBM’s z/OS Management Facility (z/OSMF) has helped my role as a Systems Programmer, by providing a web browser based tool that brings together some routine day-to-day operations and administration of z/OS systems into one simple to use web interface. Using z/OSMF has helped me to become more productive in my new role as a Systems Programmer.” *Government Agency (Europe)*

z/OSMF V1R13 Product Package



- The IBM z/OS Management Facility is a separate licensed program product comprised of
 - z/OS Management Facility (5655-S28)
 - z/OS Management Facility Subscription and Support (5655-S29)
- *z/OSMF V1r13 contains the following FMID#*
 - *HBBN700 (IBM WebSphere Application Server OEM Edition for z/OS v7.0)*
 - **COMPID 5655I3512 - WEBS APP SVR OEM**
 - HSMA130 - IBM z/OS Management Facility
 - COMPID 5655S28SM - zOSMF Core
 - COMPID 5655S28RJ - zOSMF RestJobs
 - HSMA131 - IBM z/OS Management Facility – ISPF
 - COMPID 5655S2801 - zOSMF ISPF
 - HSMA132 - IBM z/OS Management Facility – RM
 - COMPID 5655S2802 - zOSMF RM
 - HSMA133 - IBM z/OS Management Facility – WLM
 - COMPID 5655S2803 - zOSMF WLM
 - HSMA134 - IBM z/OS Management Facility – Deplymnt Mgr
 - COMPID 5655S2804 - zOSMF Core
 - HSMA135 - IBM z/OS Management Facility - Incident Log
 - COMPID 5655S2805 - zOSMF PD Incident Log
 - HSMA136 - IBM z/OS Management Facility – Capacity Prov
 - COMPID 5655S2806 - zOSMF Capacity Provisioning
 - HSMA13A - IBM z/OS Management Facility - Config Assist
 - COMPID 5655S28CA – Comm server Config ASST
 - HSMA13F - IBM z/OS Management Facility - DFSMS
 - COMPID 5655S28DF z/OSMF Storage manager

Software Installation

- **z/OSMF V1.13 ordered in a z/OS ServerPac**
 - Provides default customization via ServerPac provided customization job
 - Provided for Full System Replace installation path
 - Software Upgrade jobs and documentation provided but may need changes based on your existing environment
 - Can also use the WebSphere Application Server OEM Edition Configuration Guide and z/OSMF Configuration Guide
 - Product configuration scripts to setup, if defaults are not viable
- **z/OSMF V1.13 ordered in a CBPDO**
 - Use Program Directory to get started
 - Use the WebSphere Application Server OEM Edition Configuration Guide and z/OSMF Configuration Guide
 - Product configuration scripts to setup

z/OSMF Workload Management (V1R12)

Service Definition History



- A history is provided for each service definition
 - Lists the activities performed on the service definition
 - Contains edit, install, activate, import, export activities
 - Displays timestamp and user
 - The user can customize how long the history is kept

Use filtering and sorting to find the data you are interested in

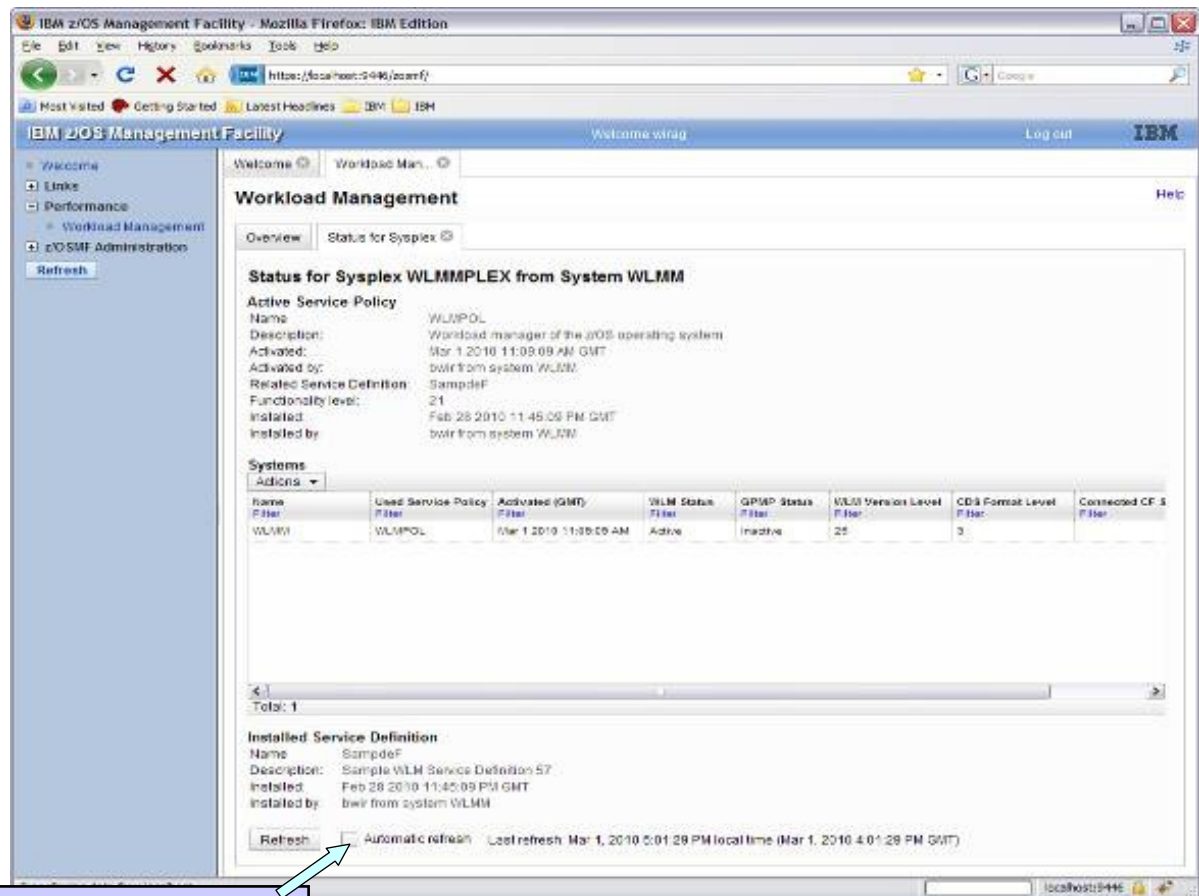
Actions	Sysplex	Action	Date and Time (GMT)	User ID
	RMF4PLEX	Activate service policy WLMSTTAV	Apr 23, 2010 10:57:36 AM	bwir
	RMF4PLEX	Install in WLM couple data set	Apr 23, 2010 1:17:48 PM	bwir
	RMF4PLEX	Activate service policy WASRT	Apr 23, 2010 1:17:49 PM	bwir
	RMF4PLEX	Install in WLM couple data set	Apr 26, 2010 4:26:01 PM	wsadmin
	RMF4PLEX	Activate service policy WASRT	Apr 26, 2010 4:26:01 PM	wsadmin
	RMF4PLEX	Install in WLM couple data set	May 4, 2010 8:04:28 AM	bwir
	RMF4PLEX	Activate service policy WASRT	May 4, 2010 8:04:29 AM	bwir
	RMF4PLEX	Modify	May 10, 2010 5:18:27 PM	wsadmin
	RMF4PLEX	Install in WLM couple data set	May 10, 2010 5:18:27 PM	wsadmin
	RMF4PLEX	Modify	May 10, 2010 5:38:49 PM	wsadmin
	RMF4PLEX	Install in WLM couple data set	May 10, 2010 5:38:49 PM	wsadmin
	RMF4PLEX	Modify	May 10, 2010 5:42:44 PM	wsadmin
	RMF4PLEX	Install in WLM couple data set	May 10, 2010 5:42:44 PM	wsadmin
	RMF4PLEX	Modify	May 10, 2010 5:54:11 PM	wsadmin
	RMF4PLEX	Install in WLM couple data set	May 10, 2010 5:54:11 PM	wsadmin
	RMF4PLEX	Modify	May 10, 2010 6:19:01 PM	wsadmin

Total: 39
Refresh Last refresh: May 21, 2010 2:54:22 PM local time (May 21, 2010 12:54:22 PM GMT)

z/OSMF Workload Management (V1R12)

View Sysplex Status

- **The View Sysplex Status task displays**
 - The active service policy
 - The WLM status on the systems in the sysplex
 - The installed service definition
 - The Sysplex Status panel comprises the information provided by the MVS console command **D WLM, SYSTEMS**
 - WLM status report is automatically updated if the WLM status on the systems changes



The screenshot shows the IBM z/OSMF Workload Management interface. The main content area displays the 'Status for Sysplex WLMMPLEX from System WLM'. It includes details for the Active Service Policy (WLMPOL) and a table of Systems. Below the table, there is an 'Installed Service Definition' section for 'SampleF'. A callout box points to the 'Automatic refresh' checkbox, which is currently unchecked.

Name Filter	Used Service Policy Filter	Activated (GMT) Filter	WLM Status Filter	GPWP Status Filter	WLM Version Level Filter	CD3 Format Level Filter	Connected CF 3 Filter
WLMV	WLMPOL	Mar 1 2010 11:05:05 AM	Active	Inactive	25	3	

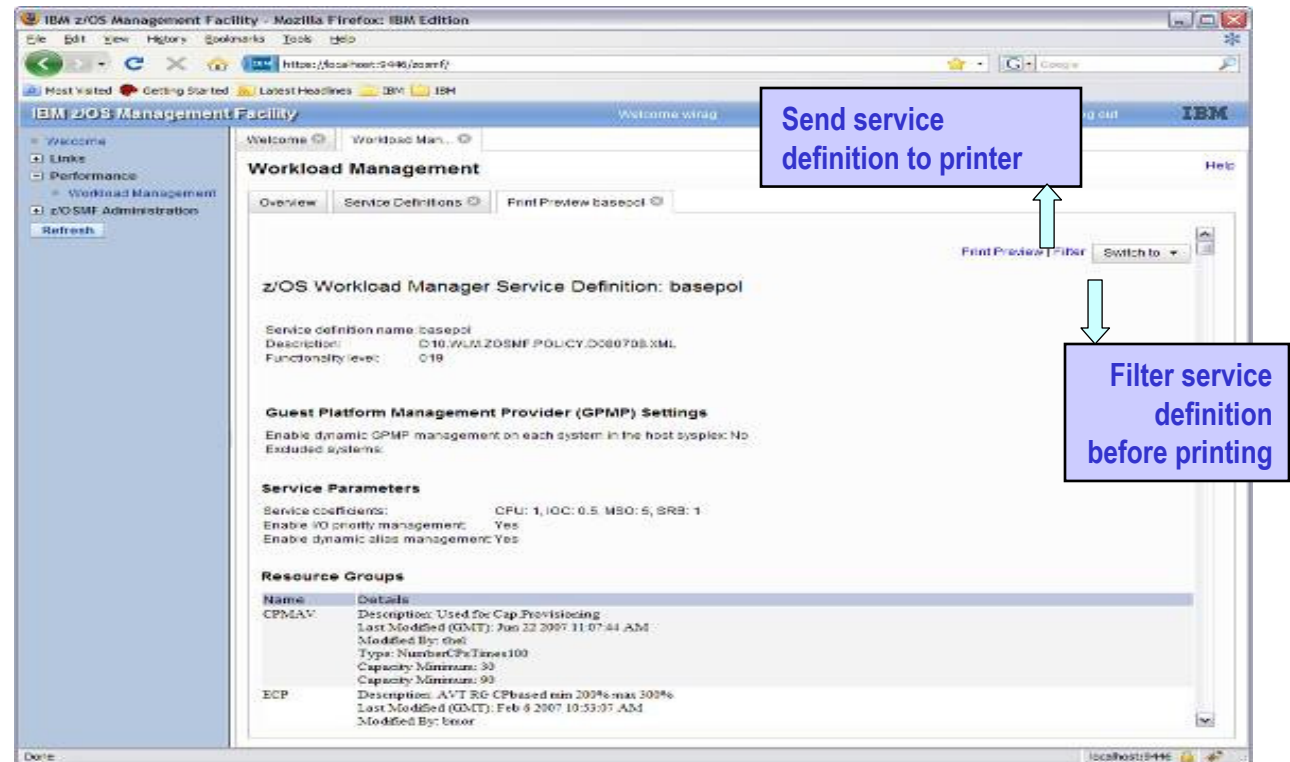
Check checkbox to automatically refresh data

z/OSMF Workload Management (V1R12)

Printing Service Definitions



- **Print Preview function provides**
 - A clearly formatted overview of the service definition
 - filter service definition elements
 - apply service policies
- Hints, warnings can also be printed



z/OSMF Workload Management

Can send basic data to the zEnterprise server



- Integration with the new IBM zEnterprise server
 - Unified Resource Manager (Monitors Dashboard) can monitor heterogeneous workloads.
- New agent in z/OS R12 will feed data to Unified Resource Manager.
 - System resource utilization, system delays, paging delays
- Unified Resource Manager will link distributed workload with z/OS workload
 - Ex: AIX Application Serving Blade front end to DB2 z/OS backend
 - End to end monitoring

IBM z/OS Management Facility - Mozilla Firefox: IBM Edition

Workload Management

Service Definition Details

Service definition name: WLMTVT

Description: TVT Test policy

Functionality level: 025

Service Coefficients

Central processing unit (CPU): 1.0

Input and output channel (IOC): 0.5

Main storage occupancy (MSO): 5.0000

Service request block (SRB): 1.0

Service Options

Enable I/O priority management: Yes

Enable dynamic alias management: No

Guest Platform Management Provider (GPMP) Settings

Enable dynamic GPMP management on each system in the host sysplex: Yes

Excluded systems: SYS_A, SYS_B, SYS_C

OK Apply Reset Cancel

Easy to turn on the GPMP agent