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

Modernization and integration of tools across domains to enhance collaboration.

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Where does z/OSMF fit in your enterprise?

- Smart technologies from IBM can deliver simplification across organizational domains

- Tivoli Service Management Center
- DB2 / IMS
- z/OS Management Facility

- Tivoli OMEGAMON
- IT Business Management
- Business-IT Alignment

- IT Operations
- Business Driven Development

- CICS Explorer
- IT Development

- 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*

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

- *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. *

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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 embedded 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

- 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**

**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

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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

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

Main Perspective

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

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

Select the technology you want to configure and click Configure.

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.
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

<table>
<thead>
<tr>
<th>Without Configuration Assistant** With Policy Agent only</th>
<th>With Configuration Assistant** in z/OSMF GUI for Policy Agent</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Filter unwanted network traffic from your z/OS system</strong></td>
<td><strong>Filter unwanted network traffic from your z/OS system</strong></td>
</tr>
<tr>
<td>• Learn how to set up IP filters</td>
<td>• Configuration Assistant guidance</td>
</tr>
<tr>
<td>• Review the IP Configuration Guide</td>
<td>• Go to IP Security Perspective</td>
</tr>
<tr>
<td>• Configure the Policy Agent application</td>
<td>• Add a connectivity rule for an IP Filter</td>
</tr>
<tr>
<td>• Create configuration policy for IP Filter rules</td>
<td>• Use Application Setup Tasks to assist with the configuration and setup of the required applications</td>
</tr>
<tr>
<td>• Configure default filter rules in the TCP/IP profile</td>
<td>• The Configuration Assistant will generate and help you deploy the configuration files to your z/OS system</td>
</tr>
<tr>
<td>• Configure the TRMD application</td>
<td><strong>Hours (or even days for initial setup)</strong></td>
</tr>
<tr>
<td>• Configure the Syslogd application</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Secure your TN3270 server connections with SSL</strong></th>
<th><strong>Secure your TN3270 server connections with SSL</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Manual process</td>
<td>• Configuration Assistant guidance</td>
</tr>
<tr>
<td>• Review the IP Configuration Guide</td>
<td>• Go to AT-TLS Perspective</td>
</tr>
<tr>
<td>• Configure the Policy Agent application</td>
<td>• Select the AT-TLS rule for the TN3270 server and enable</td>
</tr>
<tr>
<td>• Configure TTLS in the TCP/IP profile</td>
<td>• Use Application Setup Tasks to assist with the configuration and setup of the required applications</td>
</tr>
<tr>
<td>• Configure the Syslogd application</td>
<td>• The Configuration Assistant will generate and help you deploy the configuration files to your z/OS system</td>
</tr>
<tr>
<td>• Create configuration policy for AT-TLS for your TN3270 Server</td>
<td><strong>Hours (or even days for initial setup)</strong></td>
</tr>
</tbody>
</table>

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**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.

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

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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).
z/OSMF Capacity Provisioning Function

Manage CIM connections to access a Provisioning Managers

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

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

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

Provisioning Manager

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

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 6:42:53 AM
- Processing mode: Automatic
- Processing mode activation time: Nov 15, 2010 9:03:12 AM
- Configuration name: TC0574T
- Configuration activation time: Jan 25, 2011 10:45:11 AM
- Policy name: TC0574T
- Policy activation time: Jan 21, 2011 4:14:49 PM

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.

- CPCs
- Systems

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: TC0574T
- Status: Enabled

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## z/OSMF Capacity Provisioning (R13)

### Benefits

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

**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 simplified location where you can define the z/OS sysplexes and Linux images to be monitored in the Monitoring Desktops task.
Resource Monitoring: System Status

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

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.

Click to open the dashboard
Monitoring Dashboard - example

A running dashboard shows real-time performance data.
Dashboards – add a metric

Add your own metrics and filters to create custom views with more detailed information, or correlation of events.

Have integrated z/OS and Linux metrics monitoring in one view.
### z/OSMF Resource Monitoring

#### Benefits

<table>
<thead>
<tr>
<th>Without z/OSMF Resource Monitoring (using RMF ISPF Monitor III Reporter)</th>
<th>With z/OSMF Resource Monitoring</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Checking the performance status for several sysplexes</strong>&lt;br&gt;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)&lt;br&gt;Up to 15 minutes to look up each sysplex and high degree of skill needed to interpret reports</td>
<td>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.&lt;br&gt;(Linux monitoring features are fully integrated.)&lt;br&gt;Just seconds to see the health of all your sysplexes (and Linux images)</td>
</tr>
<tr>
<td><strong>Explore &amp; compare the processor usage of specifics jobs</strong>&lt;br&gt;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&lt;br&gt;A long time, depending on data required and correlations needed. In some cases, generating reports is not possible.</td>
<td>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.&lt;br&gt;About 5 minutes to set up a custom monitoring desktop, 3 key clicks to view real-time statistics</td>
</tr>
</tbody>
</table>

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

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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

- Store all service definitions in one repository
- Click to view, edit, print, install a service definition
- Messages based on built in best practice checks

Complete your sessions evaluation online at SHARE.org/SFEval
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
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

Best-practice hints help to optimize service definitions

Copy to clipboard for insertion into another service definition

Easy to check where the element is used

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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

<table>
<thead>
<tr>
<th>Optimization of a service definition based on best-practices</th>
<th>Without WLM Policy Editor** using ISPF WLM Application</th>
<th>With WLM Policy Editor** in z/OSMF</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>Check the best-practice hints the GUI displays for policy elements. If required, modify the policy elements correspondingly.</td>
<td>Minutes (or hours when done initially)</td>
</tr>
<tr>
<td><strong>Hours (or days when done initially)</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Review of service definitions for daily changes, migration, consolidation</th>
<th>Without WLM Policy Editor** using ISPF WLM Application</th>
<th>With WLM Policy Editor** in z/OSMF</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>Open a service definition from the service definition repository. Navigate through it using links. Filter and sort policy elements in the tables.</td>
<td><strong>Seconds until review can start</strong></td>
</tr>
<tr>
<td><strong>5-10 minutes until review can start</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transfer policy elements from a test service definition to a production service definition</th>
<th>Without WLM Policy Editor** using ISPF WLM Application</th>
<th>With WLM Policy Editor** in z/OSMF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Print out the test service definition and update the production service definition by typing in the changes.</td>
<td>Open the test and production service definition simultaneously and copy over the changed policy elements via copy&amp;paste operations.</td>
<td><strong>Seconds per policy element</strong></td>
</tr>
<tr>
<td><strong>Up to several minutes per policy element</strong></td>
<td></td>
<td></td>
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</tbody>
</table>

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

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

Select incident, get popup with actions
Incident Log – Incident Details

Tab shows lists of data (logrec and error log)
Incident Log – Diagnostic Data

Attach user defined diagnostic data (V1.12)
Incident Log – Send Diagnostic Data

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

<table>
<thead>
<tr>
<th>Without z/OSMF Incident Log **</th>
<th>With z/OSMF Incident Log **</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recognizing a system-detected (dumped) problem occurred</td>
<td>Requires 5 to 7 manual steps, plus skill on effective use of IPCS to extract data from each of the dumps. Up to 5-6 minutes</td>
</tr>
<tr>
<td>Allow new dump to be taken for the same symptom</td>
<td>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 Up to 15 minutes</td>
</tr>
</tbody>
</table>
| Collecting and sending diagnostic data | 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. Up to 20 minutes Up to 30 minutes for sysplex components | Send the material in 8 clicks:  
  • Select the incident materials  
  • Specify the FTP destination information  
  • Send the material  
  • Check whether the information was FTP’d successfully As little as 30 seconds |
| Viewing diagnostic datasets within context | • Context switch to ISPF green screen interface, login if necessary, manual input of dataset name. • Up to 1 minute | • 2 clicks to open diagnostic dataset  
  • As little as 7 seconds |

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

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

IBM z/OS Management Facility

Welcome mfsu01

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.
### Products view

The 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 GMP/C information, use the Retrieve Product, Feature, and FMID Information action provided in the Software Instances view. [Learn more...](#)

<table>
<thead>
<tr>
<th>Product</th>
<th>Release</th>
<th>Product ID</th>
<th>Messages</th>
<th>Vendor</th>
<th>General Availability</th>
<th>End of Service</th>
<th>Additional Product Information</th>
</tr>
</thead>
</table>

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in San Francisco

2013
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
<table>
<thead>
<tr>
<th>Task</th>
<th>Without z/OSMF Software Deployment</th>
<th>With z/OSMF Software Deployment</th>
</tr>
</thead>
</table>
| Identify missing requisite PTFs on instances that will share resources with the deployed software. | • 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 | • 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. | • 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. | • 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. | • 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:  
• 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. | • Automatically use specified SMP/E inventory to identify the all of the data sets that compose the source to be deployed. |
### z/OSMF Software Deployment (R13)

#### Benefits

<table>
<thead>
<tr>
<th>Task</th>
<th>Without z/OSMF Software Deployment</th>
<th>With z/OSMF Software Deployment</th>
</tr>
</thead>
</table>
| Modify the target software layout (data set names, location, and catalog). | Manual:  
- 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 | Automated checklist and wizard will;  
- 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. | • 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. | • 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. | • If done at all, manually compare source with the target system. | • 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

- Customize settings
- TSO messages have priority and pop up
- 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.
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
Steps may be manual or invoke wizards
Wizards to update and submit jobs, execute shell scripts and REXX execs

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
<table>
<thead>
<tr>
<th>ID</th>
<th>Day</th>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>13059</td>
<td>2/5</td>
<td>9:30 – 10:30</td>
<td>z/OSMF What is it? And why would I want it?</td>
<td>Anuja Deedwaniya</td>
<td>Franciscan B, Ballroom Level</td>
</tr>
<tr>
<td>13052</td>
<td>2/5</td>
<td>12:15 – 1:15</td>
<td>13052: Engaging Users and Reducing Complexity: z/OSMF Project Usability Discussion</td>
<td>Geoff Smith</td>
<td>Franciscan B, Ballroom Level</td>
</tr>
<tr>
<td>13061</td>
<td>2/6</td>
<td>1:30 – 2:30</td>
<td>z/OSMF Advanced Functionality</td>
<td>Anuja Deedwaniya</td>
<td>Franciscan B, Ballroom Level</td>
</tr>
<tr>
<td>13048</td>
<td>2/6</td>
<td>6:00 – 7:00</td>
<td>z/OSMF Roundtable</td>
<td>Anuja Deedwaniya</td>
<td>Franciscan B, Ballroom Level</td>
</tr>
<tr>
<td>13099</td>
<td>2/6</td>
<td>6:00 – 7:00</td>
<td>Capacity Provisioning Update for z/OS 1.13 and 1.12</td>
<td>Juergen Baumann</td>
<td>Yosemite C, Ballroom Level</td>
</tr>
<tr>
<td>13082</td>
<td>2/7</td>
<td>8:00 – 9:00</td>
<td>New z/OSMF Software Management Capabilities</td>
<td>Greg Daynes</td>
<td>Franciscan B, Ballroom Level</td>
</tr>
<tr>
<td>13089</td>
<td>2/7</td>
<td>8:00 – 9:00</td>
<td>RMF: The Latest and Greatest</td>
<td>Brad Snyder</td>
<td>Yosemite C, Ballroom Level</td>
</tr>
<tr>
<td>13100</td>
<td>2/7</td>
<td>9:30 – 10:30</td>
<td>Manage your Workloads and Performance with z/OSMF</td>
<td>Juergen Baumann</td>
<td>Yosemite C, Ballroom Level</td>
</tr>
<tr>
<td>12752</td>
<td>2/7</td>
<td>11:00 – 12:00</td>
<td>z/OSMF Hands-On Lab</td>
<td>Anuja Deedwaniya</td>
<td>Union Square 23-24, Fourth Floor</td>
</tr>
<tr>
<td>13040</td>
<td>2/7</td>
<td>4:30 – 5:30</td>
<td>z/OSMF User Experience</td>
<td>Doug Henry (US Bank) Mary_Anne Matyaz (U.S. Customs) Anuja Deedwaniya(IBM)</td>
<td>Imperial A, Ballroom Level</td>
</tr>
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<td>12753</td>
<td>2/8</td>
<td>8:00 – 9:00</td>
<td>z/OSMF Software Deployment Hands-on Lab</td>
<td>Marna Walle Greg Daynes</td>
<td>Union Square 23-24, Fourth Floor</td>
</tr>
<tr>
<td>13070</td>
<td>2/8</td>
<td>8:00 – 9:00</td>
<td>z/OSMF Software Management Hands-on Lab</td>
<td>Greg Daynes</td>
<td>Union Square 23-24, Fourth Floor</td>
</tr>
</tbody>
</table>
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 - z/OSMF Core
    - COMPID 5655S28RJ - z/OSMF RestJobs
  - HSMA131 - IBM z/OS Management Facility – ISPF
    - COMPID 5655S2801 - z/OSMF ISPF
  - HSMA132 - IBM z/OS Management Facility – RM
    - COMPID 5655S2802 - z/OSMF RM
  - HSMA133 - IBM z/OS Management Facility – WLM
    - COMPID 5655S2803 - z/OSMF WLM
  - HSMA134 - IBM z/OS Management Facility – Deplymnt Mgr
    - COMPID 5655S2804 - z/OSMF Core
  - HSMA135 - IBM z/OS Management Facility - Incident Log
    - COMPID 5655S2805 - z/OSMF PD Incident Log
  - HSMA136 - IBM z/OS Management Facility – Capacity Prov
    - COMPID 5655S2806 - z/OSMF 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
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
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

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

Easy to turn on the GPMP agent