

The New and Improved z/OSMF V2.1

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IBM z/OS Installation and Deployment Architect

Session 16643



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Agenda

- **Overview of z/OS Simplification Efforts**
 - The z/OS Management Facility (z/OSMF)
- **What's New in z/OSMF V2.1**
 - Use of the WebSphere Application Server Liberty profile
 - Workflows
 - Support for External Applications*
- **z/OSMF Management Tasks**
 - Configuration
 - Performance
 - Problem Determination
 - Software
 - z/OS Classic Interface: ISPF
- **Other z/OSMF Capabilities**
 - Security
 - System**
 - Programmatic Interface for z/OSMF

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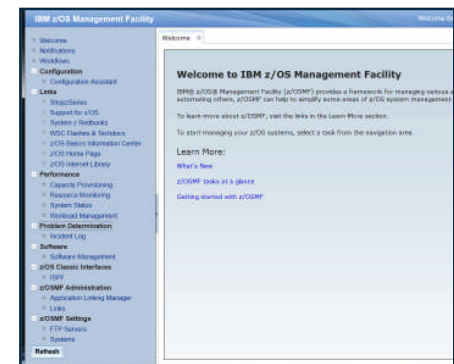
What is z/OSMF?



- **IBM z/OS Management Facility (z/OSMF) delivers on IBM's strategy for mainframe simplification and modernization**
 - The IBM z/OS Management Facility is a separate product for z/OS that provides support for a modern, Web-browser based management console for z/OS.
 - It helps system programmers 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.
 - Automated tasks can help reduce the learning curve and improve productivity.
 - Embedded active user assistance (such as wizards) guide you through tasks and helps provide simplified operations.
- **z/OSMF V2.1 has it's own product number 5610-A01 and must be separately ordered**

- It can be ordered with z/OS in the same ServerPac
- Can be ordered in a CBPDO (with or without other products)
 - Can also be ordered in a “Product” ServerPac
- Service & Subscription program number is 5655-S29
 - This must be ordered for support

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Focus Areas for Simplification

<h2>Problem Management & Analysis</h2> <p>Monitoring z/OS system health; Run Time Diagnostics Predictive Failure Analysis Auto-IPL Auto Reply zAware</p>	<h2>Configuration and Performance</h2> <p>Capacity Provisioning HMC complex-wide Activate zDAC IBM Health Checker zOSMF</p>
<h2>Simplify and modernize the user experience and programming requirements</h2> <p>Task-oriented browser-based user-interface; end-to-end task simplification; eliminating opportunity for error</p>	
<h2>Information</h2> <p>LookAT</p>	<h2>Information</h2> <p>IBM Education Assistant</p>
<h2>Installation, Migration, & Maintenance</h2> <p>ShopzSeries Electronic Delivery</p>	<h2>Installation, Migration, & Maintenance</h2> <p>Generic Tracker SMP/E Internet Service Retrieval SMP/E ISPF split screen</p>



z/OS Management Facility

Problem Management & Analysis

Installation, Migration, & Maintenance

Configuration and Performance

Simplify and modernize the user experience and programming requirements

Incident Log (z/OSMF V1.11)

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.

SDSF (z/OSMF V2.1 with PTF

UI15294) provides a browser-based SDSF application designed to run in a z/OSMF environment that takes advantage of a graphical user interface.

z/OSMF Base Services:

- Security integration with SAF (z/OSMF V1.13)
- ISPF Web UI (z/OSMF V1.13)
- REST API for Jobs (z/OSMF V1.13)
- REST API for Data Sets and Files (z/OSMF V2.1 with PTF UI16044)
- REST API for z/OSMF Information Retrieval (z/OSMF V2.1 with PTF UI90005)
- REST API for z/OSMF Systems (z/OSMF V2.1 with PTF for APAR PI32148)
- REST API for Software Management (z/OSMF V2.1 with PTF for APAR PI32158)
- REST API for z/OSMF Workflow (z/OSMF V2.1 with PTF for APAR PI32163)
- Notifications (z/OSMF V2.1) View and act on the z/OSMF notifications that have been assigned to you
- Workflow (z/OSMF V2.1) Perform a guided set of steps, for example, to configure components or products in your installation. With PTF UI90005, A workflow step can use output from another workflow step; also a workflow step can be performed conditionally.
- The ability to add non-z/OSMF launch points and links to any category in the navigation tree allows a central tool for effective information and knowledge sharing.
- Import Manager (z/OSMF V2.1 with PTF UI16044) Import import plug-ins, event types, event handlers, and links into z/OSMF.
- System Setting - Discover the system definition that hosts the z/OSMF instance (z/OSMF V2.1 with PTF UI90005)

Software Management (z/OSMF V1.13) provides a simple, structured approach to deploying SMP/E installed software. In addition, it allows for inspection of a software instance to view the product, feature, FMID content, SYSMODS, as well as the physical datasets that comprise a particular software instance. It also enables you to perform actions to analyze and report on software instances (such as identifying installed products with an announced end of service date).

Configuration Assistant for z/OS Communications Server (z/OSMF V1.11) Simplified configuration and setup of TCP/IP policy-based networking functions

WLM Policy Editor (z/OSMF V1.12)

Simplified management of WLM service definitions and policies. Facilitate the creation and editing of WLM service definitions, installation of WLM service definitions, and activation of WLM service policies

Resource Monitoring (z/OSMF

V1.12) Provides dynamic real time metrics for system performance

Capacity Provisioning (z/OSMF

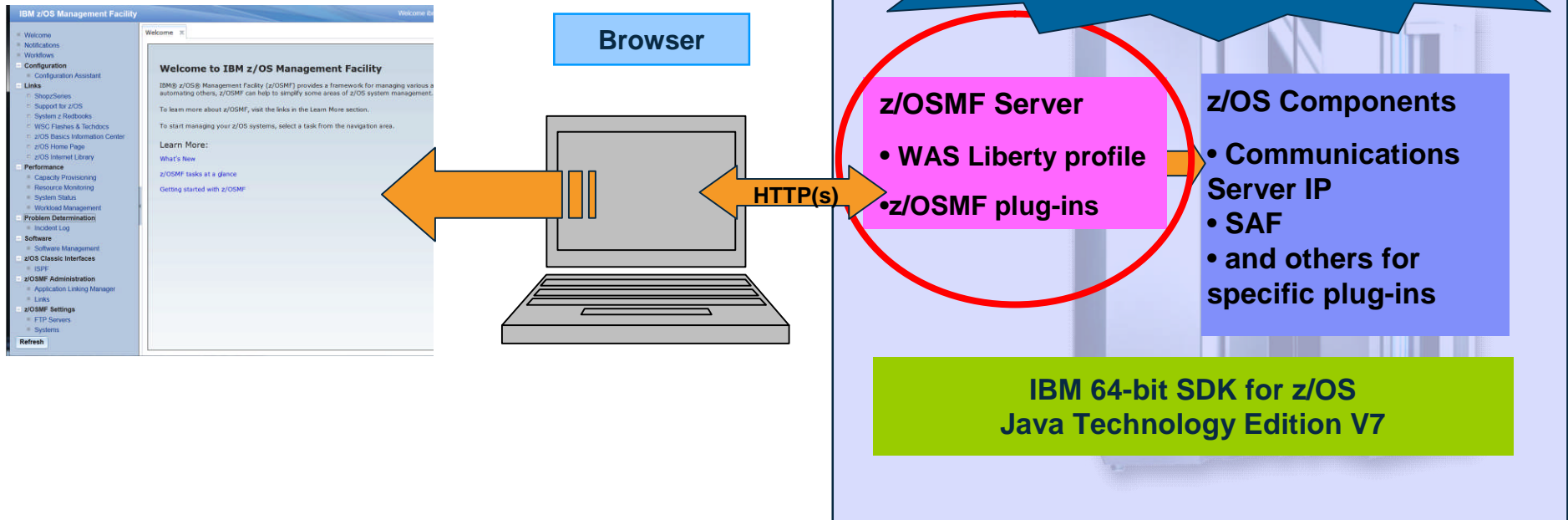
V1.13) simplify the work of a z/OS CP administrator to manage connections to CPMs, view reports for domain status, active configuration and active policy.



IBM z/OS Management Facility

The Application Stack

Session 16654 z/OSMF V2.1
Configuration and Implementation



- The z/OS Management Facility applications run on the z/OS enabling you to manage z/OS from z/OS
 - Information is presented on a PC using a browser
- The z/OS Management Facility requires:
 - z/OS Communications Server
 - Security definitions (SAF)
 - Other components are required for specific z/OSMF plug-ins
 - IBM 64-bit SDK for z/OS Java Technology Edition V7

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IBM z/OS Management Facility



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 - FTP Servers
 - SDSF Settings
 - Systems

Refresh

Welcome x

Welcome to IBM z/OS Management Facility

IBM® z/OS® Management Facility (z/OSMF) provides a framework for managing various aspects of a z/OS system through a Web browser. z/OSMF can help to simplify some areas of z/OS system management.

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

To start managing your z/OS systems, select a task from the navigation area.

Learn More:

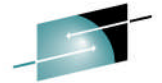
[What's New](#)

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

[Getting started with z/OSMF](#)

After logging on, you can click on What's New to see new functions

IBM z/OS Management Facility – What's New



IBM Knowledge Center

Enter search terms

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z/OS Management Facility 2.1.0

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- Glossary of terms and abbreviations

Search Results

Welcome > What's new in the z/OSMF online help

What's new in the z/OSMF online help

This topic describes the enhancements provided in the online help for z/OSMF Version 2 Release 1.

The enhancements are described in the following sections:

- [September 2014 Enhancements](#)
- [March 2014 Enhancements](#)
- [September 2013 enhancements](#)

September 2014 Enhancements

- The FTP Profiles task was enhanced to allow you to specify the OpenSSH secure FTP (SFTP) settings that are required to navigate an
- The FTP Servers task adds support for SFTP servers.
- The Incident Log task now allows you to use SFTP when sending diagnostic data to IBM® or another vendor.
- The Software Management task:
 - Reduces the complexity of adding product information files to z/OSMF.
 - Adds support for viewing, submitting, and canceling the jobs generated for a deployment and for viewing and purging the job output
 - Allows you to use OpenSSH secure FTP to perform remote deployments.
- The Systems task:
 - Provides support for defining groups for organizing your systems.
 - Allows you to view the system definitions in the **Systems** table by sysplex or group.
 - Adds a new **Discover** action, which allows you to discover and create system definitions for the active systems that belong to the spool (MAS) or JES3 complex as the z/OSMF host system.
- The Workflows task is enhanced, as follows:
 - A workflow step can be designed to save its output in a separate file called the output file. On completion of the step, the contents

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Use of the WebSphere Application Server Liberty Profile



- **Runs on smaller configurations**
 - Requires available CPU resource equivalent to a processor with a processor capacity index (PCI) of at least 45.
 - See [z/OS Management Facility Resource Requirements](#) white paper on Techdocs
- **Initializes faster**
 - z/OSMF startup time varies considerably depending upon many factors.
 - These include CPU resource, z/OSMF Server configuration, number of starting applications, type of applications, etc.
 - In the laboratory, we have observed z/OSMF startup time to be approximately 30 seconds in a zEC12 LPAR consisting of one dedicated CPU
 - For the LPAR for the conference labs, startup time is about 10 seconds
 - However, the time was approximately 8 minutes with a minimally configured system.
- **Uses less CPU**
- **Uses less memory**
 - Requires one gigabyte (1 GB) of central storage.
 - This amount is in addition to your existing storage allocation for other applications running in the same z/OS system.
- **Installation of service is easier**
 - For normal service, you no longer have to run a script (izusetup –service)

Co



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Workflow Definition

- **Wikipedia**

- A **workflow** consists of an orchestrated and repeatable pattern business activity enabled by the systematic organization of resources into processes that transform materials, provide services, or process information.
- It can be depicted as a sequence of operations, declared as work of a person or group, an organization of staff, or one or more simple or complex mechanisms.

- **BusinessDictionary.com**

- A **workflow** is a progression of steps (tasks, events, interactions) that comprise a work process, involve two or more persons, and create or add value to the organization's activities.
- In a sequential workflow, each step is dependent on occurrence of the previous step; in a parallel workflow, two or more steps can occur concurrently.

z/OSMF Workflow Application

- The z/OSMF Workflow application enables a Workflow provider (vendor or user) to define a guided flow through steps to accomplish a task.
- Step is the basic unit of workflow:
 - Steps may instruct the user to perform a task via:
 - Documentation or
 - Invoke wizards that guide the user to perform the task by:
 - Updating and submitting jobs,
 - Executing shell scripts, and
 - Running REXX EXECs
 - Steps may define dependencies on other steps
 - Steps may be assigned to an individual or a specific role, such as
 - “systems programmer”
 - “security administrator”
 - Steps may be performed manually or automatically

Workflow Recent Enhancements **



PTFs UI90005 and UI90014 (9/30/2014) enhance the Workflows task to enable:

- A workflow step to be designed to save its output in an *output file* which on completion of the step, the contents of the output file become available for use by subsequent steps in the workflow instance, or by other workflow instances. **
- A workflow step to be designed to be performed conditionally, based on whether a logical condition is satisfied on the z/OS system. **

** available for z/OSMF V2.1 with PTF UI90005 and its requisite PTFs

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Workflow's Upcoming Enhancements ***



The following new functions are planned to be made available by March 30 2015:

- Provide a new REST services are added to allow you to create and manage a workflow programmatically.
- Enhance the Workflows XML schema to support workflow-to-workflow execution.
 - That is, a workflow can be designed to invoke another workflow for execution.
 - The target workflow is referred to as a “called workflow”
- Provide a scope option for customizing the JOB statement for a workflow.
 - When you create the JOB statement for a step that runs a job, you can specify a scope for the JOB statement, so that it applies to other steps and workflows.

*** planned availability (March 30, 2015) with PTFs for APARs PI32148, PI32157, PI32158, and PI32163

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User Scenario (Product Configuration)

- **The system programmer installs a product's code that provides a z/OSMF Workflow for its configuration.**
 - **The person that will configure the product logs on to z/OSMF and creates a new workflow from file provided by the product.**
 - z/OSMF prompts the user to provide the fully qualified location
 - z/OSMF reads in the metadata file(s) and creates a workflow instance
- That person becomes the workflow owner**
- **The owner can then start by opening the workflow instance**
 - The owner can now view and assign tasks to either individual SAF users or a role (group of users)
 - **Assignees will then get notified that tasks are assigned to them**
 - **Each assignee then accepts the tasks and can perform the steps when they are ready.**
 - **Everyone can track the progress of the workflow and view what steps have been completed, what steps are ready, and what steps are waiting**

z/OSMF Workflow Application

- **The z/OSMF Workflow application is useful to:**
 - Assist people unfamiliar with how to perform a given task, or a task that they perform rarely
 - Ensure that all tasks are performed in the right order and only when their dependencies have been met
 - Ensure that all steps are completed
 - Even if many of the tasks have been delegated to a number of different colleagues
 - Monitor and track progress toward the completion of the task
 - Provide a history (audit trail) of the steps performed for a task
 - Perform the same tasks on multiple systems
 - Enabling a function (e.g. z/OSMF)
 - Migrating a new release of software (e.g., z/OS)

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z/OSMF Workflow Exploitation

- **Exploitation of the z/OSMF Workflow Application**
 - z/OSMF V2.1 Configuration Assistant
 - Can create seven new workflows, and uses the Workflow engine to setup the policy agent and other daemons.
 - z/OSMF V2.1 Configuration Workflow
 - To assist in setting up the z/OS prerequisites for each of the z/OSMF plug-ins.
 - On the z/OSMF Downloads web page
 - A sample workflow that transforms the *z/OS Migration* book into a Workflow.
 - **Available to try as part of the z/OSMF Hands-On Labs**
 - z/OS V2R1 zEnterprise Data Compression Setup Workflow
 - z13 Migration/Upgrade Considerations Workflow
 - DB2 for z/OS Migration Workflow
 - z/OSMF V2.1 Sample Workflows
 - They are located at /usr/lpp/zosmf/V2R1/workflow

Configuration Workflow Eval

Session 16646 Using z/OSMF Workflows for Configuration

- z/OSMF V2.1 (GA), configuration workflow provided documentation that described instructions on how the tasks could be performed manually.
- z/OSMF V2.1 (PTF UI16044*), configuration workflow provided the a number of wizards to guide the user to implement the requisites for Incident log and configure z/OSMF to add plug-ins.
- z/OSMF V2.1 (PTF UI90005**), configuration workflow provides some discovery functions and utilizes the import function of z/OSMF configuration properties.
- z/OSMF V2.1 (PTF for APAR PI32148***), the configuration workflow is planned to exploit conditional execution to base the steps required to setup ISPF, WLM, Capacity Provisioning, or Incident Log based on the current system configuration.

State Filter	No. Filter	Title Filter	Automated Filter
Ready	1	Highlights and pre-reqs of Config Workflow	No
In Progress	2	Discovery before configuration	
Ready	2.1	Discover general zOS setups	Yes
Ready	2.2	Discover zOSMF run-time properties	Yes
Not Ready	3	Review related z/OS and z/OSMF configuration	No
In Progress	4	Configuration Assistant plug-in	

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*** planned availability (March 30, 2015) with PTFs for APARs PI32148

z/OSMF Plug-in Configuration

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Welcome x Workflows x

Workflows > Workflow to configure z/OSMF plug-ins

Help

Workflow to configure z/OSMF plug-ins

Notes | History

Description:
z/OS customization for each z/OSMF plug-in.

Owner:
zosmfad
Steps
complete:
0 of 70

System:
PLEX1.SY1
Status:
In Progress

Percent complete:

0%

Workflow Steps

State Filter	No. Filter	Title Filter	Automated Filter	Owner Filter	Skill Category Filter	Assignees Filter
<input type="checkbox"/> Unassigned	1	■ Highlights and pre-reqs of Config Workflow	No		System Programmer	
<input type="checkbox"/> Unassigned	2	+ Discovery before configuration				
<input type="checkbox"/> Unassigned	3	■ Review related z/OS and z/OSMF configuration	No		System Programmer	
<input type="checkbox"/> Unassigned	4	+ Configuration Assistant plug-in				
<input type="checkbox"/> Unassigned	5	+ ISPF plug-in				
<input type="checkbox"/> Unassigned	6	+ Common Information Model (CIM) server				
<input type="checkbox"/> Unassigned	7	+ Workload Management plug-in				
<input type="checkbox"/> Unassigned	8	+ Resource Monitoring plug-in				
<input type="checkbox"/> Unassigned	9	+ Capacity Provisioning plug-in				
<input type="checkbox"/> Unassigned	10	+ Incident Log plug-in				
<input type="checkbox"/> Unassigned	11	+ Add Plug-ins into zOSMF Server				

Total: 92, Selected: 0

[Return to Workflows](#)

[Refresh](#)

Last refresh: Jul 17, 2014, 4:14:31 PM local time (Jul 17, 2014, 8:14:31 AM GMT)

★ Steps needed for Incident Log

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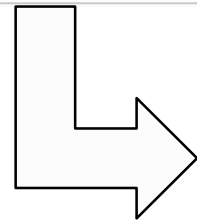
z/OSMF Plug-in Configuration

Session 16646 Using z/OSMF Workflows for Configuration

Workflow Steps

State Filter	No. Filter	Title Filter
In Progress	9	Capacity Provisioning plug-in
In Progress	10	Incident Log plug-in
Complete (Override)	10.1	Ensure that the CIM server is configured
Complete	10.2	Ensure log snapshots is configured properly
In Progress	10.3	Set up a sysplex dump directory
In Progress	10.4	(Optional) Configure dump analysis and elimination (DAE)
In Progress	10.5	Configuring automatic dump data set
In Progress	10.6	Ensure that CEA is configured
In Progress	10.7	Ensure that SYSREXX is configured
In Progress	10.8	Authorizing the data set for AM

Several areas need to be configured



Workflow Steps

State Filter	No. Filter	Title Filter	Automated Filter
In Progress	10	Incident Log plug-in	
Complete (Override)	10.1	Ensure that the CIM server is configured	
Complete	10.2	Ensure log snapshots is configured properly	
In Progress	10.3	Set up a sysplex dump directory	
Ready	10.3.1	Discover sysplex dump directory	Yes
Not Ready	10.3.2	Review whether dump directory is already set up	No
Not Ready	10.3.3	Create a sysplex dump directory data set	Yes
Not Ready	10.3.4	Update BLSCUSER with the name of created sysplex dump directory	Yes
Not Ready	10.3.5	Recycle the dump services address space	Yes
Not Ready	10.3.6	Register the sysplex dump directory with IPCS	Yes
In Progress	10.4	(Optional) Configure dump analysis and elimination (DAE)	

Each area follows similar structure

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External Application Support in z/OSMF*

- **External application support includes two major parts:**
 - A set of Restful services which are invoked by external application to retrieve or send data to associated z/OS back-end applications. Services include:
 - TSO/E Services,
 - Persistence services and
 - File Serving Services
 - Import Manager, task and application linking registration mechanism by properties files, externalized JavaScript logger and JavaScript callbacks.
 - The new Import Manager task under z/OSMF Administration provides the GUI interface to import the properties file and register the web application in the navigation

* available for z/OSMF V2.1 with PTF UI16044 and its requisite PTFs

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Import Manager*

- **The Import Manager task provides the following functions:**
 - Add plug-in to z/OSMF
 - Add application linking event types and handlers to z/OSMF.
 - Add links to z/OSMF
 - View the property file content before import.
 - View/Delete the import history records.
 - View the historical property file content of the import records.
 - Application linking from Links and Application Linking Manager tasks to Import Manager
- **Notes:**
 1. Existing Links task registers external links one at a time via GUI interface
 - User has to type in all the information on the GUI panel
 2. Existing Application linking manager still available for defining application linking events and handlers via a GUI one at a time required for other apps that are not hosted in z/OSMF

* available for z/OSMF V2.1 with PTF UI16044 and its requisite PTFs

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Import Manager*



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- z/OSMF Administration
 - Application Linking Manager
 - **Import Manager**
 - Links
- z/OSMF Settings
 - FTP Servers
 - SDSF Settings
 - Systems

New navigation task for z/OSMF Administrators

Welcome ×

Welcome to IBM z/OS Management Facility

IBM® z/OS® Management Facility (z/OSMF) provides a framework for managing various aspects of a z/OS system through a Web browser interface. By streamlining tasks, z/OSMF can help to simplify some areas of z/OS system management.

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

To start managing your z/OS systems, select a task from the navigation area.

Learn More:

- [What's New](#)
- [z/OSMF tasks at a glance](#)
- [Getting started with z/OSMF](#)

Check browser and operating system



z/OSMF Import Manager*



Welcome x Import Manager x

Import Manager

Import History

To add plug-ins, event types, handlers, and links in z/OSMF, specify the property file to import. [Learn more...](#)

Property file:

Select or type the path and name of the property file.

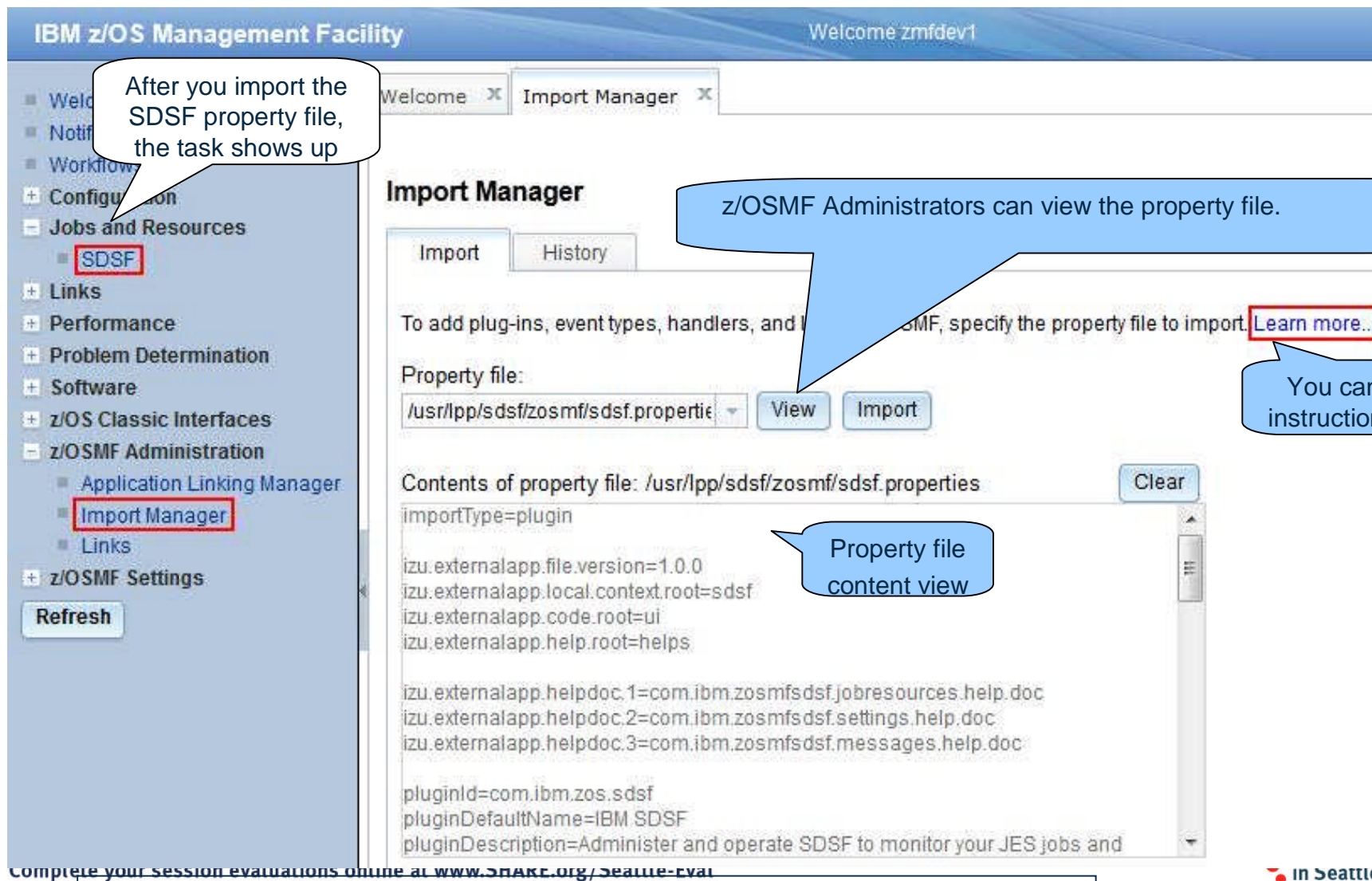
Contents of property file:

Click View to display the contents of the specified property file.

This is where you specify the properties file for SDSF:
`/usr/lpp/sdsf/zosmf/sdsf.properties`



Import Manager – Import Tab*



IBM z/OS Management Facility Welcome zmfdev1

Welcome x Import Manager x

After you import the SDSF property file, the task shows up

z/OSMF Administrators can view the property file.

To add plug-ins, event types, handlers, and [Learn more...](#)

Property file:
/usr/lpp/sdsf/zosmf/sdsf.properties View Import

Contents of property file: /usr/lpp/sdsf/zosmf/sdsf.properties Clear

```
importType=plugin
izu.externalapp.file.version=1.0.0
izu.externalapp.local.context.root=sdsf
izu.externalapp.code.root=ui
izu.externalapp.help.root=helps

izu.externalapp.helpdoc.1=com.ibm.zosmfsdsf.jobresources.help.doc
izu.externalapp.helpdoc.2=com.ibm.zosmfsdsf.settings.help.doc
izu.externalapp.helpdoc.3=com.ibm.zosmfsdsf.messages.help.doc

pluginId=com.ibm.zos.sdsf
pluginDefaultName=IBM SDSF
pluginDescription=Administer and operate SDSF to monitor your JES jobs and
```

Property file content view

You can get instruction here

Complete your session evaluations online at www.SHARE.org/Seattle-eval

* available for z/OSMF V2.1 with PTF UJ16044 and its prerequisite PTFs

Import Manager – History Tab*



IBM z/OS Management Facility Welcome gdaynes

Welcome x Import Manager x

Import Manager

Import History

z/OSMF Administrators can view the registration records and the history registration file. Delete the registration records.

Property File Name Filter	Type Filter	Import Result Filter	Messages [More Less] Filter	Import Path Filter	Date and Time Imported (GMT) Filter	Imported By Filter
<input checked="" type="checkbox"/> sdsf.properties	Plug-in	1 of 1 added	<input checked="" type="checkbox"/> IZUG509I IZUG509I: Plug-in "IBM SDSF" with tasks "SDSF, SDSF Settings" has been added.	/usr/lpp/sdsf/zosmf/sdsf.properties	Jan 13, 2014 14:04:37 PM	neils

Total: 1, Selected: 1

[Refresh](#) Last refresh: Feb 13, 2014 3:27:00 PM local time (Feb 13, 2014 8:27:00 PM GMT)

Import Manager*



IBM z/OS Management Facility Welcome gdaynes

- Welcome
- Notifications (1)
- Workflows
- Configuration
 - Configuration Assistant
- Jobs and Resources**
 - SDSF**
- Links
 - ShopzSeries
 - Support for z/OS
 - System z Redbooks
 - WSC Flashes & Tech
 - 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
 - Import Manager
 - Links
- z/OSMF Settings
 - FTP Servers
 - SDSF Settings
 - Systems

After you import the SDSF property file, the task shows up

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After you import the SDSF property file, visit the links in the Learn More section.

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

Learn More:

- [What's New](#)
- [z/OSMF tasks at a glance](#)
- [Getting started with z/OSMF](#)

Check browser and operating system



SDSF Plug-in* Overview

Sessions 16655, 16940, or 16656
z/OSMF Hands-On Lab
Choose your Own

- The SDSF product provides a web interface through a z/OSMF SDSF Plug-in.
 - The Javascript UI calls RESTful web services to retrieve data and perform actions.
- This Plug-in can
 - Show graphic/textual overview about Processors, Spool, Health Checker
 - Display a table of Job list in different status/queue. The property column, filters, sort can be customized, and the table can be exported and printed.
 - Enable users to select a Job, view detailed properties, and perform actions such as Cancel, Edit, Submit, etc.
 - Issue system command and display output.
 - Display the User Session Log. Users can search and take notes.

* available with z/OS V2.1 SDSF PTF UI15294 and z/OSMF V2.1 with PTF UI16044
Complete your session evaluations online at www.SHARE.org/Seattle-Eval

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SDSF Overview*

Sessions 16655, 16940, or 16656
z/OSMF Hands-On Lab
Choose your Own

The screenshot shows the SDSF (PLEX1) interface. At the top, there are 'Common Filters' for Job name (ZMFDEV1), Owner (ZMFDEV1), System (*), and Destinations (1-4) (*). Below this is the 'System Activity Summary: SYS00001 (Local)' section, which includes a 'System' dropdown menu (highlighted with a red box) and a 'Refresh' button (also highlighted with a red box). The summary contains two bar charts: 'System Activity Percent Busy' and 'z/OS Health Checks by Severity'. The 'Jobs' section lists various job categories like Active Jobs, All Jobs, Input Queue, Output Queue, and Held Output Queue. At the bottom, there is a 'z/OS Commands and Logs' section with a command input field and a 'User Session Log' link (highlighted with a red box).

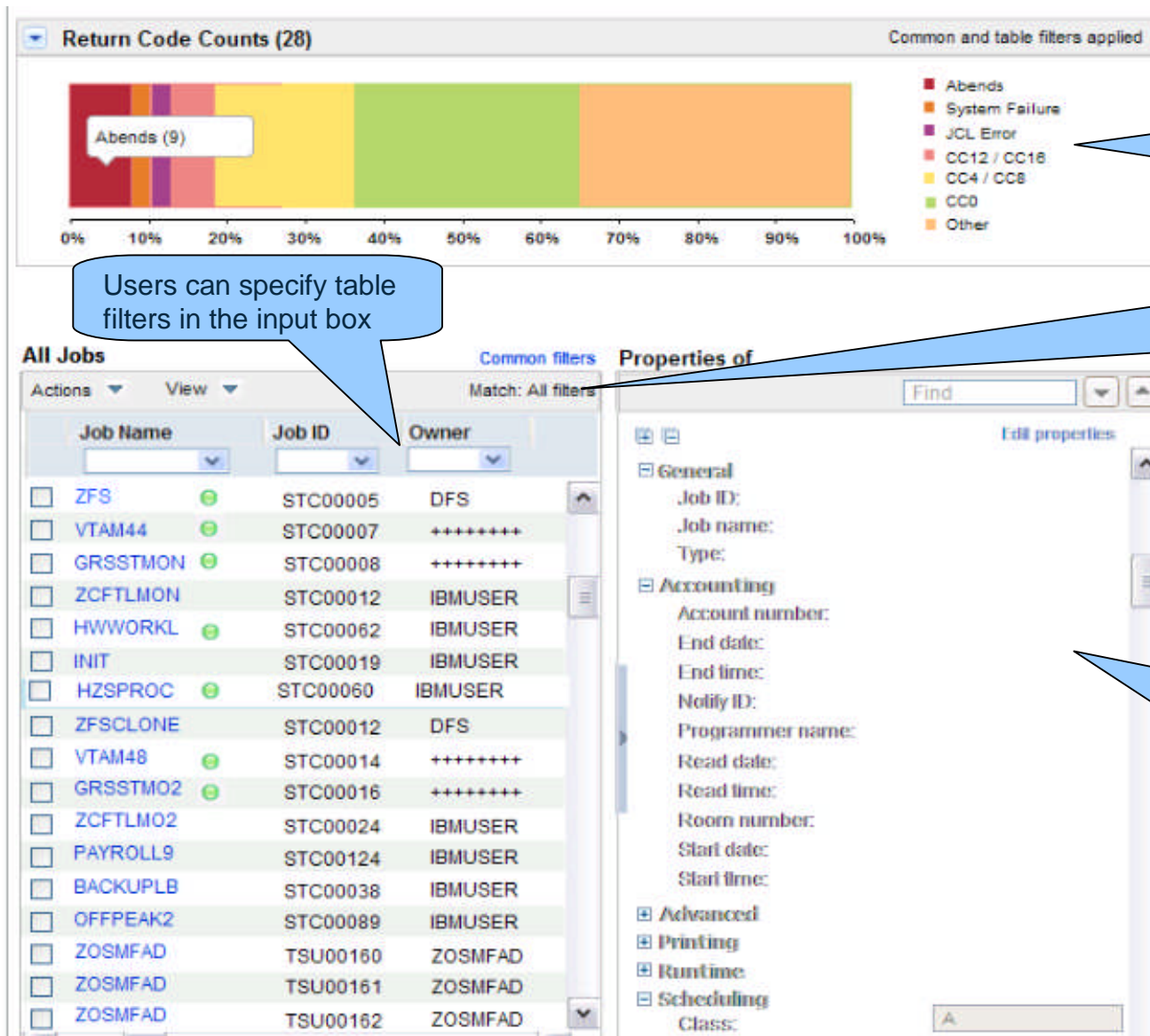
Different Common Filters can apply to different views : Active Jobs, All Jobs, Held Output Queue, Input Queue, Output Queue, Health Checks

View text can change the graphics to text view. **System** drop list or **Refresh** button can update the System Activity Summary. **Common Filters** don't apply to this view.

This link can change to more abbreviated icon view. Clicking each view link can open new tab

This link opens help related to starting words typed by users. A command history of 30 commands will be saved in the combo box . Command responses are displayed in a pop-up window. The results also go to the User Session Log and can be seen there.

All Jobs View *



Return Code Counts (28) Common and table filters applied

Abends (9)

- Abends
- System Failure
- JCL Error
- CC12 / CC18
- CC4 / CC8
- CC0
- Other

All Jobs Common filters Match: All filters

Job Name	Job ID	Owner
<input type="checkbox"/> ZFS	STC00005	DFS
<input type="checkbox"/> VTAM44	STC00007	++++++
<input type="checkbox"/> GRSSTMON	STC00008	++++++
<input type="checkbox"/> ZCFTLMON	STC00012	IBMUSER
<input type="checkbox"/> HWWORKL	STC00062	IBMUSER
<input type="checkbox"/> INIT	STC00019	IBMUSER
<input type="checkbox"/> HZSPROC	STC00060	IBMUSER
<input type="checkbox"/> ZFSCLONE	STC00012	DFS
<input type="checkbox"/> VTAM48	STC00014	++++++
<input type="checkbox"/> GRSSTMO2	STC00016	++++++
<input type="checkbox"/> ZCFTLMO2	STC00024	IBMUSER
<input type="checkbox"/> PAYROLL9	STC00124	IBMUSER
<input type="checkbox"/> BACKUPLB	STC00038	IBMUSER
<input type="checkbox"/> OFFPEAK2	STC00089	IBMUSER
<input type="checkbox"/> ZOSMFAD	TSU00160	ZOSMFAD
<input type="checkbox"/> ZOSMFAD	TSU00161	ZOSMFAD
<input type="checkbox"/> ZOSMFAD	TSU00162	ZOSMFAD

Properties of Find

- General
 - Job ID:
 - Job name:
 - Type:
- Accounting
 - Account number:
 - End date:
 - End time:
 - Notify ID:
 - Programmer name:
 - Read date:
 - Read time:
 - Room number:
 - Start date:
 - Start time:
- Advanced
- Printing
- Runtime
- Scheduling
 - Class:

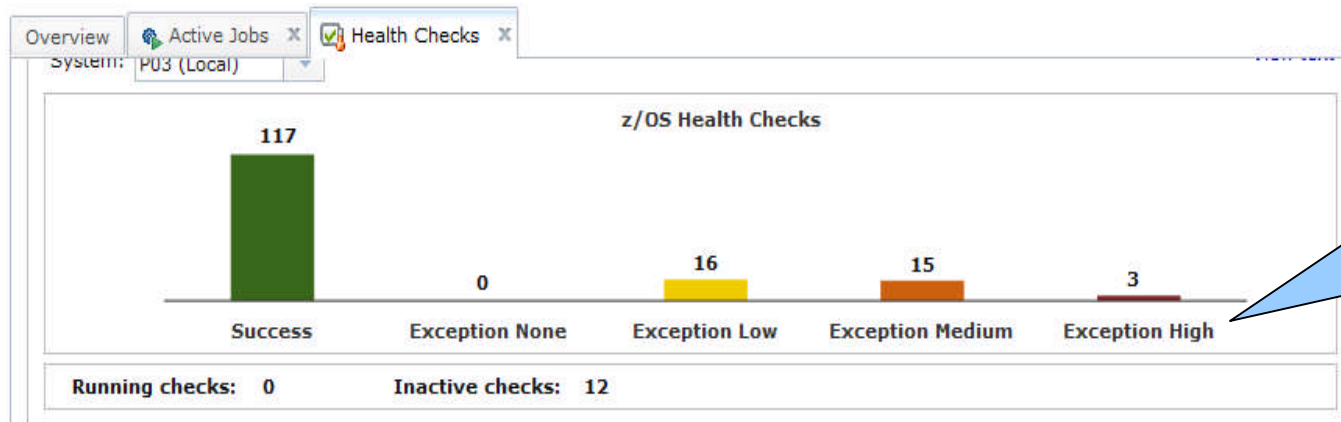
Users can specify table filters in the input box

The Job result distribution based on return code. Hover text is provided

This link brings out **Common Filters** combo box too. The common filter is applied first, and then the table filter is applied.

Job properties are displayed in a collapsible section. When no Jobs are selected, nothing is displayed.

z/OS Health Checks View*



Shows counts for checks by status, with exceptions grouped by severity, followed by counts of running checks and inactive checks.

Health Checks Common Filters Properties of ALLOC_ALLC_OFFLN_POLICY

NAME	CheckOwr	State	Status	Result
<input checked="" type="checkbox"/> ALLOC_ALLC_OFFLN_POLICY	IBMALLOC	ACTIVE	SUCCESSFUL	
<input type="checkbox"/> ALLOC_SPEC_WAIT_POLICY	IBMALLOC	ACTIVE	SUCCESSFUL	
<input type="checkbox"/> ALLOC_TIOT_SIZE	IBMALLOC	ACTIVE	SUCCESSFUL	
<input type="checkbox"/> ASM_LOCAL_SLOT_USAGE	IBMASM	ACTIVE	SUCCESSFUL	
<input type="checkbox"/> ASM_NUMBER_LOCAL_DATA	IBMASM	ACTIVE	SUCCESSFUL	
<input type="checkbox"/> ASM_PAGE_ADD	IBMASM	ACTIVE	SUCCESSFUL	
<input type="checkbox"/> ASM_PLPA_COMMON_SIZE	IBMASM	ACTIVE	EXCEPTION-M	
<input type="checkbox"/> ASM_PLPA_COMMON_USAGE	IBMASM	ACTIVE	SUCCESSFUL	

Properties are more current than table data.

Type to filter properties

General

CheckOwner: IBMALLOC
Global: NO

NAME: ALLOC_ALLC_OFFLN_POLICY
Reason: Check ALLC_OFFLN POLICY
SevCode: 4
SysLevel: z/OS 02.01.00 HBB7790
SysName: P00
WTOType: INFO

Advanced

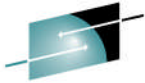
Scheduling

Status

Total: 761, Selected: 1 | Page 1 of 8 | Rows 100

Refresh | Last refresh: More than 1 minute ago | Apply | Cancel

To browse a check and see its history, click the check name, or use the **Browse** and **Display History** action. A new tab will popup. Users can perform other operations under **Actions** menu.



SDSF –View Restructure **

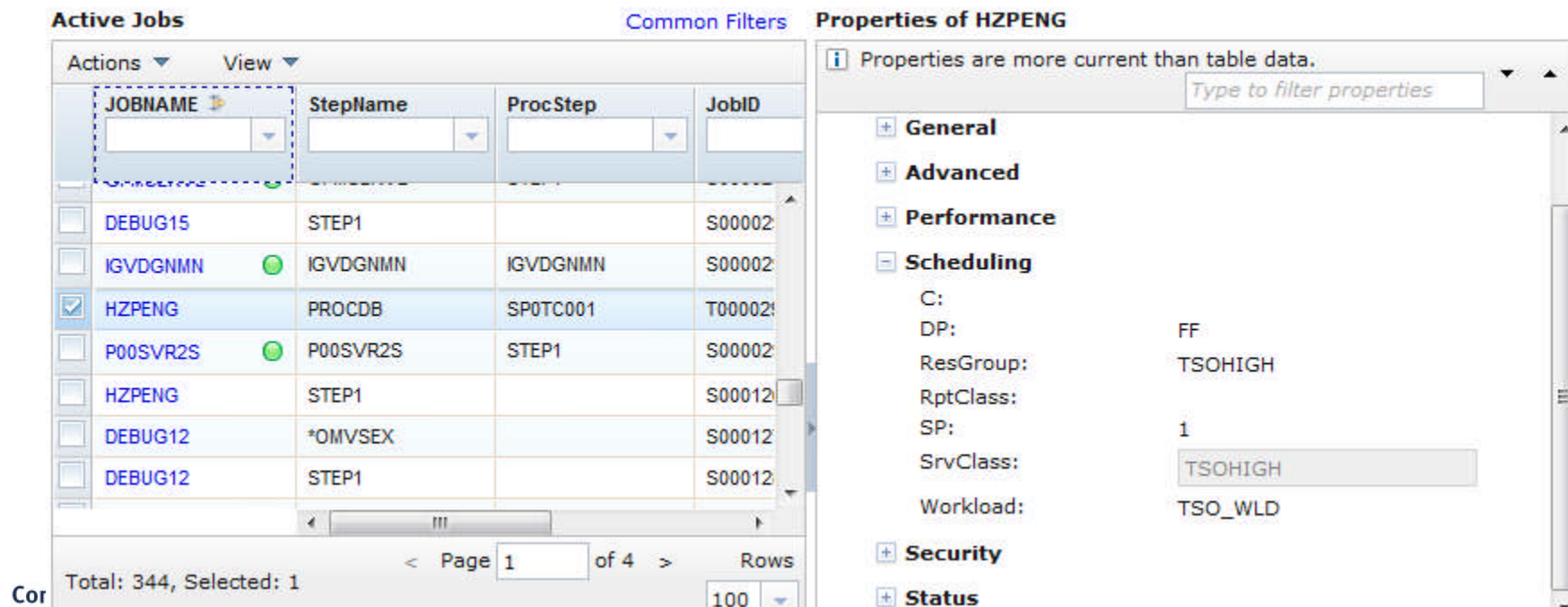
- Remove the Spool utilization bar and add the value of the bar to the graph footer in text.
- Regardless of table selection, the More actions item under Actions pull-down will be always enabled so that the user can view SDSF actions without selecting any rows.
- Restructure the table View menu.
 - Filter and sort related actions are separated by groups.
 - The Filter Match selection is moved to table header. Default value is All Filters. Selection from this menu results in immediate change to the match value and table data.
 - Export Table Data actions are move to a new table pull-down named File.

The image displays three sequential screenshots of the SDSF (PLEX1) interface, illustrating the restructuring of the View menu. The first screenshot shows the 'System Activity Percent Busy' graph with 'Spool utilization: 31%' highlighted in a blue box. The second screenshot shows the 'All Jobs' table with a 'View' menu open, displaying 'Filter', 'Sort', and 'Refresh' options. The third screenshot shows the 'All Jobs' table with a 'File' menu open, displaying 'Export Current View' and 'Export All Data' options.

** available for z/OSMF V2.1 with PTF
 Complete your session evaluations online at www.SHARE.org/Seattle-Eval
 U190005 and z/OS SDSF PTF U190004

SDSF - Property Sheet Usability **

- Persist the real-time property sheet width as part of user customization cross sessions so that the property sheet will always be rendered in user-demanded width.
 - The width percentage is persisted by command, so different views have their own width percentage separately.
- If the property sheet is collapsed (hidden), the UI will suppress the properties loading, which improves the efficiency.



The screenshot displays the SDFS interface. On the left, the 'Active Jobs' table lists several jobs, with 'HZPENG' selected. The 'JOBNAME' column header is highlighted with a dashed blue box. On the right, the 'Properties of HZPENG' panel is open, showing a search bar and several expandable sections: General, Advanced, Performance, Scheduling, Security, and Status. The 'Scheduling' section is expanded, showing parameters like C:, DP:, ResGroup: (TSOHIGH), RptClass:, SP: (1), SrvClass: (TSOHIGH), and Workload: (TSO_WLD).

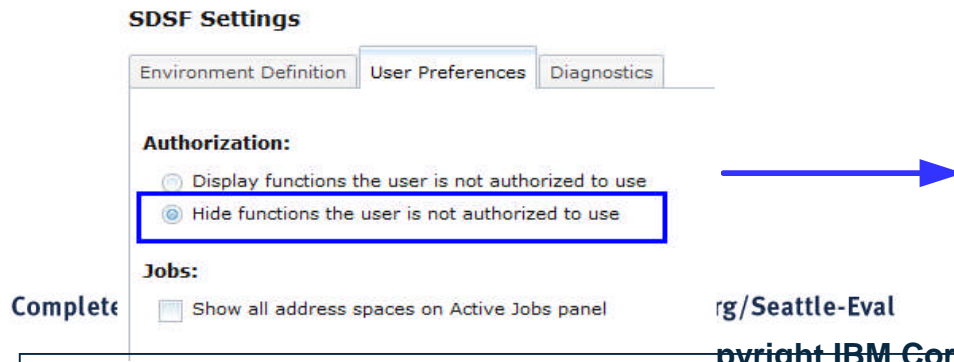
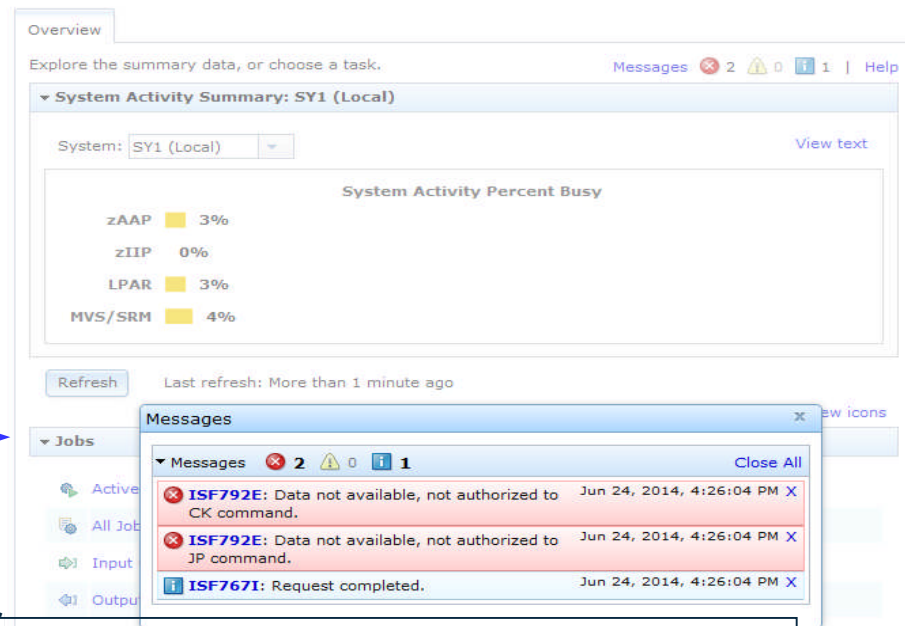
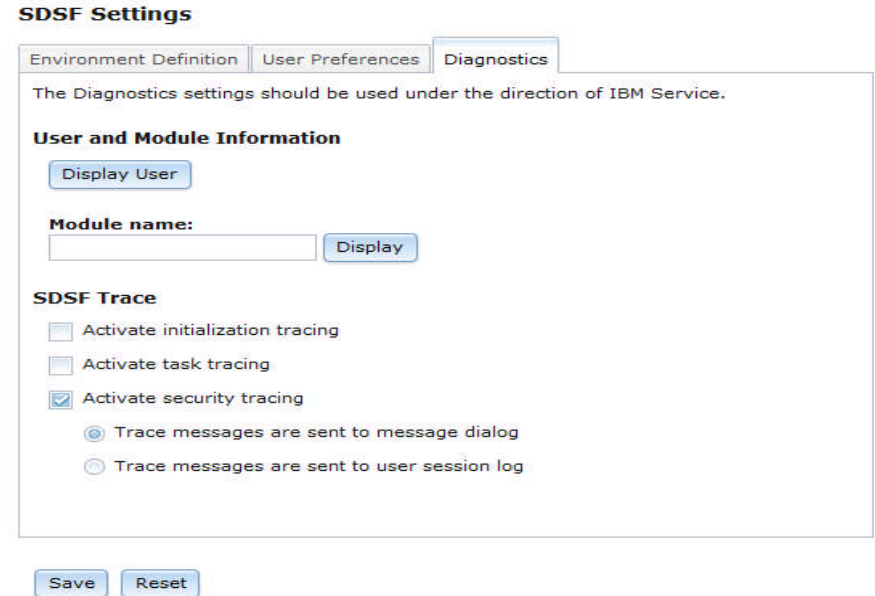
JobName	StepName	ProcStep	JobID
DEBUG15	STEP1		S00002
IGVDGNMN	IGVDGNMN	IGVDGNMN	S00002
HZPENG	PROCDB	SP0TC001	T00002
P00SVR2S	P00SVR2S	STEP1	S00002
HZPENG	STEP1		S00012
DEBUG12	*OMVSEX		S00012
DEBUG12	STEP1		S00012

** available for z/OSMF V2.1 with PTF UR19006 and z/OS SDSF PTF UI90004



SDSF – Security **

- New SDSF Settings panel layout. Add security tracing support:
 - Send trace messages to message dialog
 - Send trace messages to user sess
- Give user control to show or hide UI elements including those the user is not authorized to use.
- The UI elements to be shown/hidden are graphic sections in both Overview panel and table views.



** available for z/OSMF V2.1 with PTF UI90005 and z/OS SDSF PTF UI90004

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z/OSMF Management Tasks

- **Configuration**
 - ➔ **Configuration Assistant for z/OS Communications Server**
- **Performance**
 - Capacity Provisioning
 - Resource Monitoring and System Status
 - Workload Management
- **Problem Determination**
 - Incident Log
- **Software**
 - Management (originally called Deployment)
- **z/OS Classic Interface**
 - ISPF

Complete your session evaluations online at www.SHARE.org/Seattle-Eval

Configuration Assistant Communications Server

Sessions 16946 and 16947 z/OSMF
Configuration Assistant for z/OS
Communications Server 2.1 Hands-on Labs

- 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)
- Initially available as a Microsoft Windows Web download (since z/OS V1.7)
 - Was provided with z/OSMF (starting with z/OSMF V1.11)
 - z/OS V1.13 was the last release supported by the web download tool.
 - **With z/OS V2.1, users must migrate to z/OSMF**

Configuration Assistant for z/OS Communications Server



- **Available with z/OSMF V1.11**
 - 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
- **Enhancements in z/OSMF V1.12**
 - Support for Internet Key Exchange (IKE) version 2
 - Support for FIPS-140 cryptographic mode for IPsec and IKE
 - Simpler AT-TLS rules
 - Support the configuration of certificate trust chains and certificate revocation lists.
- **Enhancements in z/OSMF V1.13**
 - Define policies once and use for multiple stacks,
 - Configure networks for both z/OS R12 and R13 mixed environments
 - Import existing stack settings
 - Improved Intrusion Detection function

Complete your session evaluations online at www.SHARE.org/Seattle-Eval

- **Enhancements in z/OSMF V2.1**

- Provides a modern, intuitive interface that is consistent with other z/OSMF tasks.
 - Exploits the z/OSMF Workflow function for setting up Policy agent and other daemons.
- Requires less z/OS CPU usage.
- Allows you to configure z/OS V1.12, V1.13, and V2.1 Communications Server policy based definitions.
- Adds AT-TLS support for the following RFCs:
 - Renegotiation options (RFC 5746)
 - Elliptic Curve Cryptography (RFC 4492 and RFC 5480)
 - TLSv1.2 (RFC 5246)
 - AES GCM Cipher Suites (RFC 5288)
 - Suite B Profile (RFC 5430)
 - ECC and AES GCM with SHA-256/384 (RFC 5289)
- Adds Policy Based Routing (PBR) support for IPv6.

Complete your session evaluations online at www.SHARE.org/Seattle-Eval

Configuration Assistant z/OSMF V2.1 Welcome Panel



IBM z/OS Management Facility Welcome user1 Log out IBM

Welcome x Configuratio... x

Welcome to V2R1 Configuration Assistant for z/OS Communications Server
Use this task to create and manage configuration for z/OS Communications Server policy-based networking functions.

Select a backing store for configuration:
DianeBS_ATTLS_FF Open

Learn more about Configuration Assistant:

What's New	See what is new in this release.
Getting Started	First time users can learn about Configuration Assistant.
Migrating to z/OSMF	Migrate backing stores from Windows to z/OSMF.
Application Setup Tasks	Workflows to guide the setup of required applications.
Tutorials	Link to tutorials.
FAQs	Link to Frequently Asked Questions.

Main Panel

IBM z/OS Management Facility Welcome user1 Log out IBM

Welcome x Configuratio... x

Configuration Assistant (Home) > IPsec Help

V2R1 Current Backing Store = DianeBS_ATTLS_FF

Select a perspective: IPsec Tools

Systems Traffic Descriptors Security Levels Address Groups Requirement Maps Reusable Rules

Actions					
	Name	Type	Status	Release	Description
<input type="radio"/>	\$AA	Image	Complete	V2R1	
<input type="radio"/>	▪ A	Stack	Complete	V2R1	
<input type="radio"/>	▪ AAA	Stack	Incomplete	V2R1	
<input type="radio"/>	▪ ATTLS	Stack	Incomplete	V2R1	Imported from Policy Data
<input type="radio"/>	▪ TCPCS	Stack	Complete	V2R1	
<input type="radio"/>	A12	Image	Complete	V1R12	
<input type="radio"/>	▪ A12	Stack	Incomplete	V1R12	
<input type="radio"/>	A13	Image	Complete	V1R13	
<input type="radio"/>	▪ A13	Stack	Incomplete	V1R13	
<input type="radio"/>	IMAGE1	Image	Complete	V2R1	

Total: 19, Selected: 0

Home Save

Complete your session evaluations online at

Configuration Assistant z/OSMF V2.1 Welcome Panel

Workflows x Configuratio... x

Welcome to V2R1 Configuration Assistant for z/OS Communications Server

Use this task to create and manage configuration for z/OS Communications Server policy-based networking functions.

Select a backing store for configuration:

saveData

Learn more about Configuration Assistant:

What's New	See what is new in this release.
Getting Started	First time users can learn about Configuration Assistant.
Migrating to z/OSMF	Migrate backing stores from Windows to z/OSMF.
Application Setup Tasks	Workflows to guide the setup of required applications.
Tutorials	Link to tutorials.
FAQs	Link to Frequently Asked Questions.

Create Workflow

Type or select a workflow definition file to use for creating a new workflow.
For a z/OS data set, specify a fully qualified name, with no quotes.

Workflow definition file:

All Configuration Assistant Workflows are in this directory.

Configuration Assistant z/OSMF V2.1 Workflows

IBM z/OS Management Facility Welcome user1

Workflows Actions ▾

Workflows 1. Use the "Create Workflow" in the Actions menu

Simplifies tasks through guided step-based workflows, and provides administrative functions for assigning workflow responsibilities and tracking progress.

Workflow Name Filter	Description Filter	Version Filter	Vendor Filter	Owner Filter	System Filter	Percent Complet
<input type="checkbox"/> z/OS Communications Server: Setup to run Traffic Regulation Management Daemon (TRMD) - Workflow_0	z/OS Communications Server: Setup to run Traffic Regulation Management Daemon (TRMD)	1.0	IBM	user1	XESDEV.MVS160 (MVS160_001)	0%
<input type="checkbox"/> z/OS Communications Server: Setup for Syslogd - Workflow_0	z/OS Communications Server: Syslogd				001)	0%
<input type="checkbox"/> Setting up to run IP Defensive Filters with Defense Manager Daemon (DMD) - Workflow_0	Setting up to run IP De Defense Manager Dae				001)	0%
<input type="checkbox"/> Set up to run Network Security Services (NSS) - Workflow_0	Set up to run Network S (NSS)				001)	0%
<input type="checkbox"/> z/OS Communications Server: IP Security with IKE - Workflow_0	z/OS Communications with IKE					11%
<input type="checkbox"/> z/OS Communications Server: Install Sample Profiles for TCP/IP Components - Workflow_0	z/OS Communications Server: Install Sample Profiles for TCP/IP Components	1.0	IBM	user1	XESDEV.MVS160 (MVS160)	0%
<input type="checkbox"/> z/OS Communications Server: Setup to run Policy Agent - Workflow_0	z/OS Communications Server: Setup to run Policy Agent	1.0	IBM	user1	XESDEV.MVS160 (MVS160)	0%

Create Workflow

Type or select a workflow definition file to use for creating a new workflow. For a z/OS data set, specify a fully qualified name, with no quotes.

Workflow definition file:

< Back Next > Finish Cancel Help

Total: 7, Selected: 0

Refresh Last refresh: Aug 9, 2013 9:56:38 AM local time (Aug 9, 2013 1:56:38 PM GMT)

z/OSMF Management Tasks

- Configuration
 - Configuration Assistant for z/OS Communications Server
- Performance
 - ➔ **Capacity Provisioning**
 - Resource Monitoring and System Status
 - Workload Management
- Problem Determination
 - Incident Log
- Software
 - Management (originally called Deployment)
- z/OS Classic Interface
 - ISPF

Complete your session evaluations online at www.SHARE.org/Seattle-Eval

z/OSMF Capacity Provisioning

- **z/OSMF Capacity Provisioning task**
 - Simplifies the **monitoring** of z/OS CP connections, domains, configurations, and policies
 - Initially a separate Windows-based tool required for z/OS CP **management** functions.
 - With z/OSMF 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/OS V1.13 was the last release supported by Microsoft Windows-based CPCC.**
 - **With z/OS V2.1, users must migrate to z/OSMF**
 - **z/OSMF Capacity Provisioning task (z/OSMF V2.1)**
 - Support is provided for Defined Capacity and Group Capacity.

z/OSMF Capacity Provisioning



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	Protocol	Port
Filter	Filter	Filter
<input type="checkbox"/> Same system as z/OSMF		
<input type="checkbox"/> cpmprod.ibm.com	HTTPS	5989
<input type="checkbox"/> cpmtest.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	Correlation status	Record ID	Active MSU	Active zAAPs	Active zIIPs	Enabled	Enabled default
<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

Table view: Tree

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

Complete your session evaluations online at www.share.ibm.com



z/OSMF Management Tasks

- Configuration
 - Configuration Assistant for z/OS Communications Server
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Complete your session evaluations online at www.SHARE.org/Seattle-Eval

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.
- 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 easily, 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 single location where you can define the z/OS sysplexes and Linux images to be monitored in the Monitoring Desktops task.

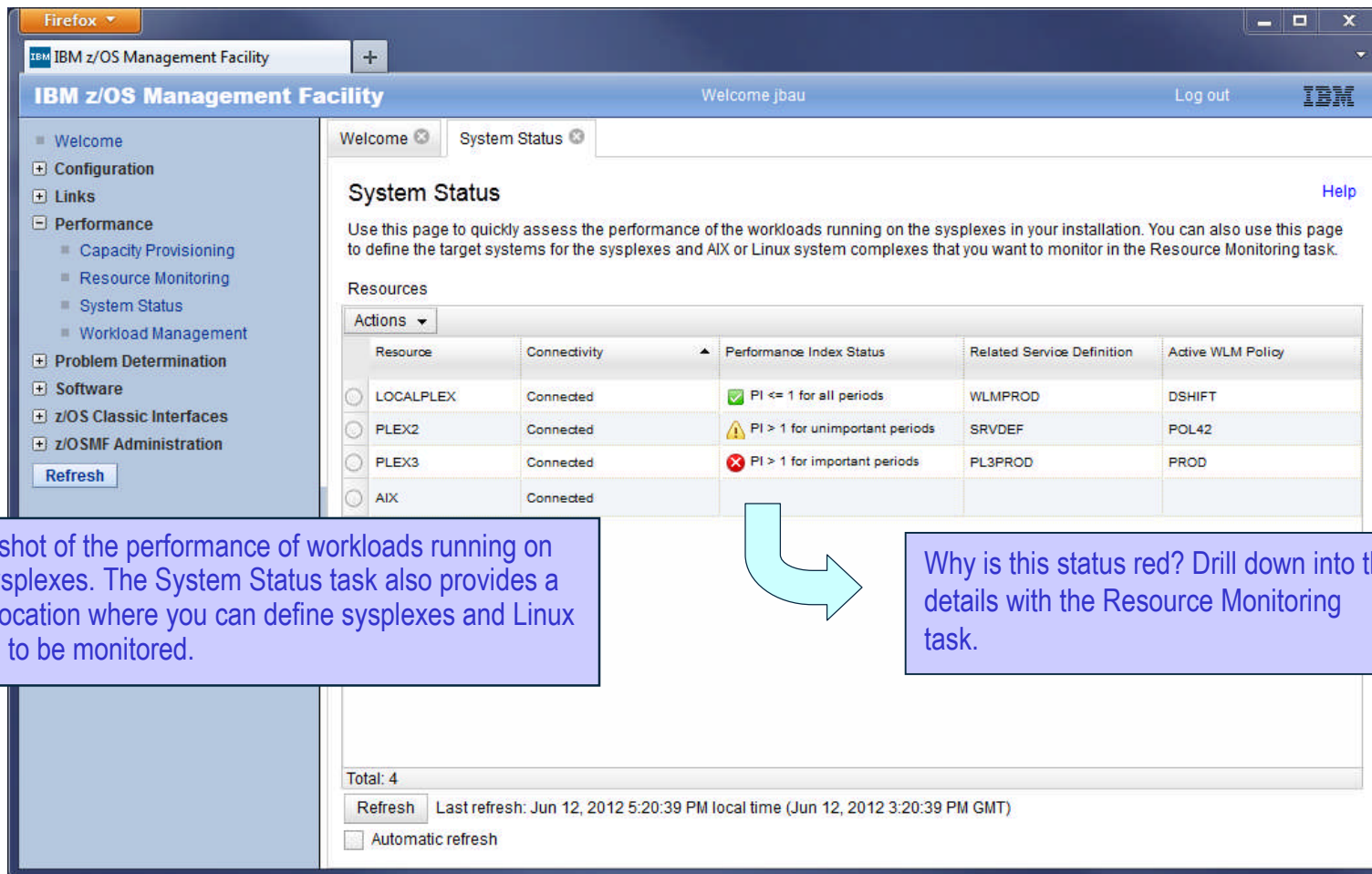
z/OSMF Resource Monitoring

- **Enhancements in z/OSMF V1.13**
- With z/OS V1.13, RMF has new performance data gatherers for Linux on System z, Linux on System x, and AIX systems to provide a consistent monitoring solution for zEnterprise ensembles.
 - Application Linking between Resource Monitoring and WLM
- **Enhancements in z/OSMF 2.1**
 - The data gatherers for Windows system complexes (System x) are also integrated into z/OSMF to give you the ability to monitor those resources.
 - System Status expands the scope of monitoring to include Windows system complexes in your enterprise
 - Retrieve Historical Data*
 - New feature can retrieve historical performance data from Resource Monitoring DDS before a RM dashboard was started.
 - Export data collected in monitoring dashboards*

Complete your session evaluations online at www.SHARE.org/Seattle-Eval

* available for z/OSMF V2.1 with PTFs HL10044 and its prerequisite PTFs

Resource Monitoring : System Status



System Status

Use this page to quickly assess the performance of the workloads running on the sysplexes in your installation. You can also use this page to define the target systems for the sysplexes and AIX or Linux system complexes that you want to monitor in the Resource Monitoring task.

Resources

Resource	Connectivity	Performance Index Status	Related Service Definition	Active WLM Policy
LOCALPLEX	Connected	PI <= 1 for all periods	WLMPROD	DSHIFT
PLEX2	Connected	PI > 1 for unimportant periods	SRVDEF	POL42
PLEX3	Connected	PI > 1 for important periods	PL3PROD	PROD
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



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.

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

Click to open the dashboard

Resource Monitoring Dashboard Data:

Category	Item	Value 1	Value 2
Groups	SYSWLM	408	400
	BOEZMF1	400	379
	ISTXCF	313	299
Members	SYSWLM*ALL	408	400
	BOEZMF1*ALL	400	379
	ISTXCF*ALL	313	299
Systems (Outbound)	ZMF2:ZMF5-SA4028	42	
	ZMF2:ZMF1-SA4028	42	
	ZMF2:ZMF3-SA4028	41	
	ZMF5:ZMF1-SA4028	41	
	ZMF3:ZMF2	62	
Systems (Inbound)	ZMF3:ZMF5	66	
	ZMF2:ZMF1	62	
	ZMF3:ZMF1	61	
	ZMF1:ZMF4	61	
	ZMF5:ZMF2	60	

Complete your session evaluations online at www.SHARE.org/Seattle-Eval

Application Linking: Resource Monitoring to WLM



Welcome x Workload Man... x System Status x

System Status

Use this page to quickly assess the performance of the workloads running on the sysplexes in your installation. You can also use this page to define the target systems for the sysplexes and AIX or Linux system complexes that you want to monitor in the Resource Monitoring task.

Resources

Resource	System Type	Connectivity	Performance Index Status	Related Service Definition	Active WLM Policy
<input checked="" type="checkbox"/> LOCALPLEX	Z/OS	Connected	⚠️ PI > 1 for unimportant periods	Filter	STANDARD
<input type="checkbox"/> SCLMPLEX		Connected	✅ PI <= 1 for all periods	Default	STANDARD
<input type="checkbox"/> SYSPLEX			✅ PI <= 1 for all periods	SYSTEMS2	STANDARD
<input type="checkbox"/> IRDPLEX	Z/OS				

Actions: Modify Entry, Remove Entry, View (selected)

View dropdown menu:

- Performance Index Details
- Active WLM Service Definition
- Active WLM Policy
- WLM Status

Resource Monitoring

Workload Management

Workload Management

Workload Management

WLM Status for Sysplex ZMF1PLEX from System ZMF2

Active Service Policy (View performance of active policy)

Name: STANDARD
 Description: BB default policy 1
 Activated: Jan 29, 2013 3:14:59 PM GMT
 Activated by: jbau from system ZMF2
 Related service definition: DEFAULT
 Functionality level: 4
 Installed: Jan 29, 2013 3:14:59 PM GMT
 Installed by: jbau from system ZMF2

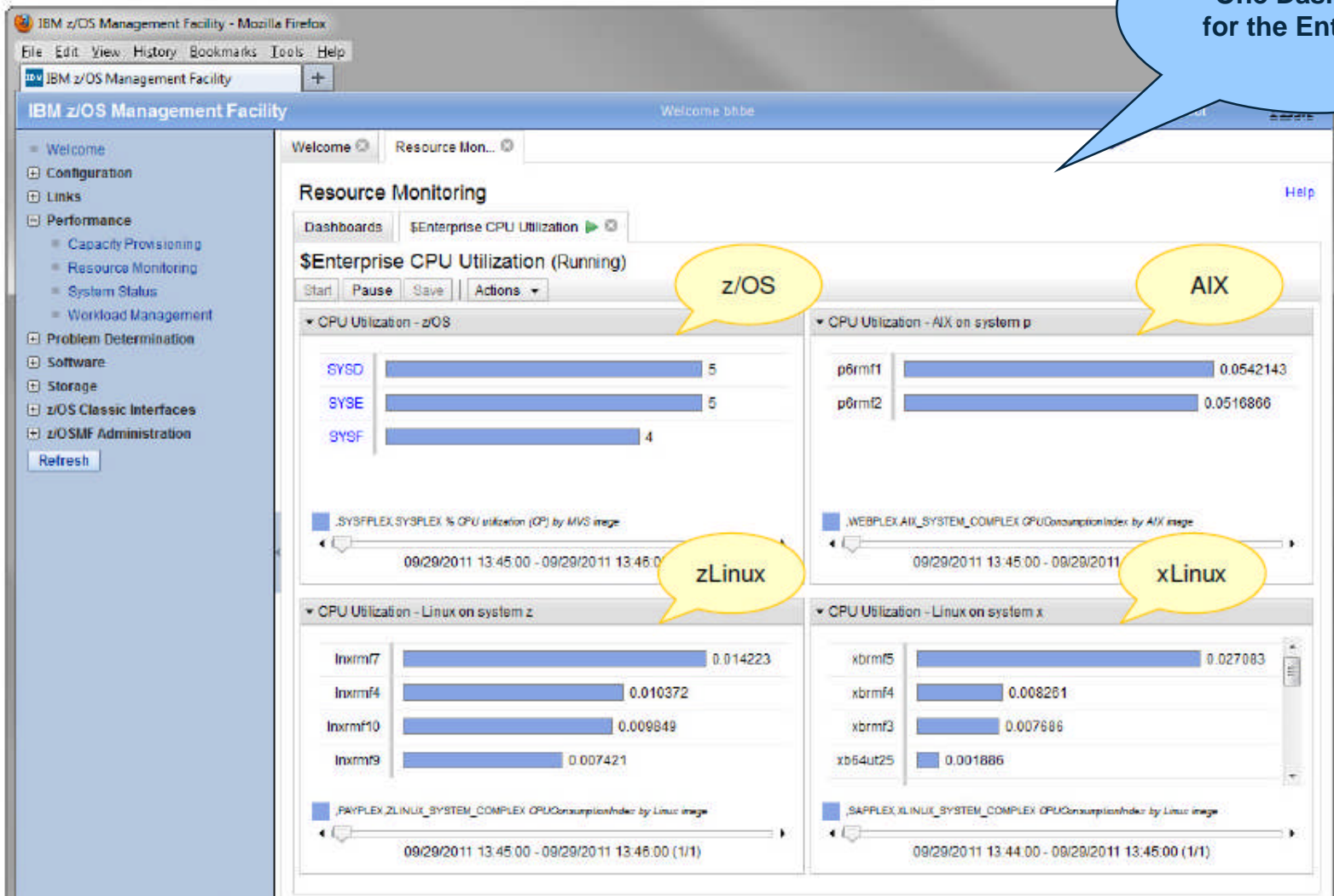
Total: 4, Selected: 1
 Refresh Last refresh: Jan 30, 2013 11:20:04 AM local time (Jan 30, 2013 10:20:04 AM local time)
 Automatic refresh

Comp

Resource Monitoring: Monitoring Dashboards

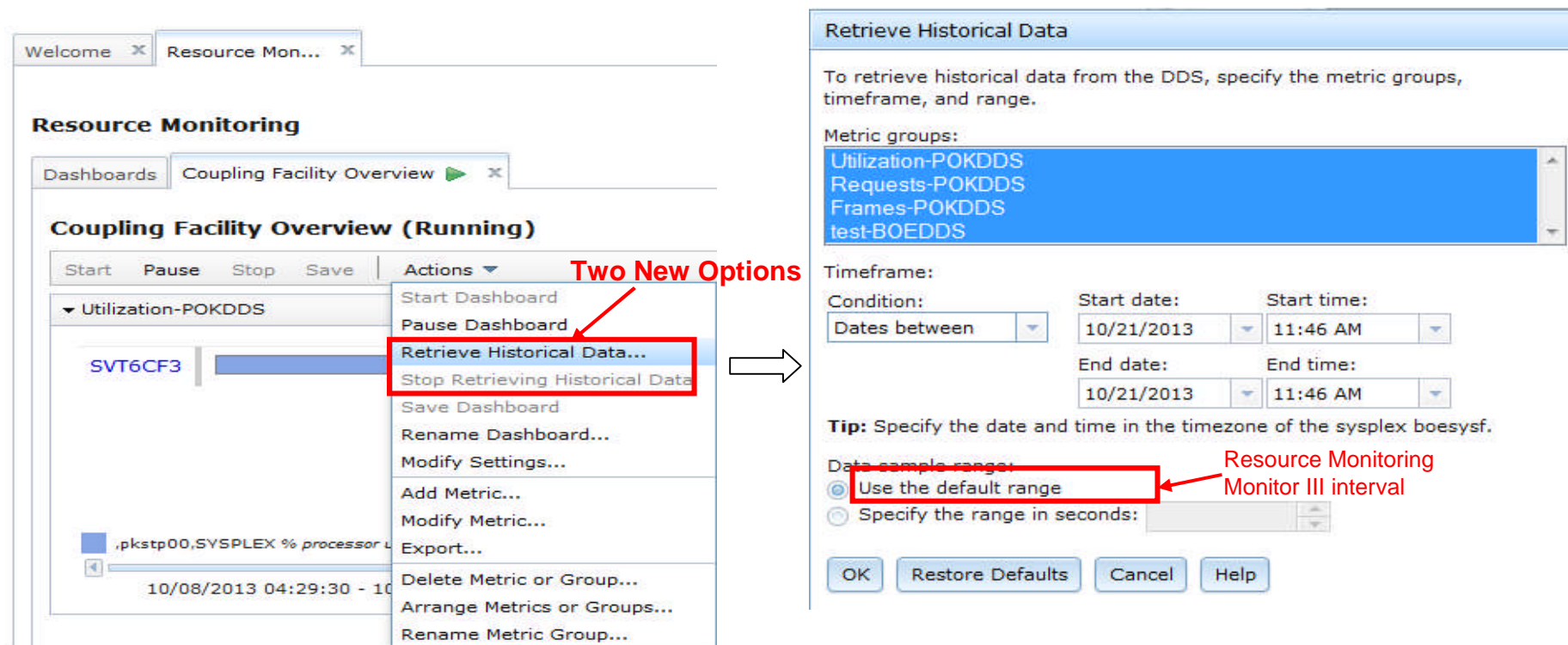


One Dashboard for the Enterprise



Co...

Retrieve Historical Data*



The screenshot shows the Resource Monitoring interface with the 'Coupling Facility Overview (Running)' dashboard. The 'Actions' menu is open, highlighting 'Retrieve Historical Data...' and 'Stop Retrieving Historical Data...'. A red box highlights these two options, with an arrow pointing to the dialog box on the right. The dialog box, titled 'Retrieve Historical Data', contains the following fields:

- Metric groups:** Utilization-POKDDS, Requests-POKDDS, Frames-POKDDS, test-BOEDDS
- Timeframe:**
 - Condition: Dates between
 - Start date: 10/21/2013, Start time: 11:46 AM
 - End date: 10/21/2013, End time: 11:46 AM
- Tip:** Specify the date and time in the timezone of the sysplex boesysf.
- Data sample range:**
 - Use the default range
 - Specify the range in seconds: [input field]

Buttons at the bottom of the dialog include OK, Restore Defaults, Cancel, and Help.

* available for z/OSMF V2.1 with PTF UI16044 and its requisite PTFs

Complete your session evaluations online at www.SHARE.org/Seattle-Eval

Resource Monitoring – Spreadsheet Export (1)*

- In Resource Monitoring task, Open a dashboard, click “Actions -> Export” can bring up Export Wizard.
- User can choose a metric group or the entire dashboard, and select a range of intervals to export. Specific metrics and resources can also be sorted out.

General Activity ▶ Export Dashboard

Export Dashboard

➔ Step1: Select Scope and Intervals

✓ Step2: Select Metrics and Resources

Select the scope and interval range of the data to export in CSV format.

General Activity ▶ Export Dashboard

Export Dashboard

Scope of Data to Export

Metric group:
Users

Include all metrics and resources

Include a selection of metrics and resources

Entire dashboard with all metrics and resources

Range of Intervals to Export

Start time of first interval:
01/09/2014 03:07:00

End time of last interval:
01/09/2014 03:09:00

✓ Step1: Select Scope and Intervals

➔ Step2: Select Metrics and Resources

Select the metrics and resources to include

Metric group to export: Users

Metrics:

- [?], SYSPLEX # users by MVS image
- [?], SYSPLEX # active users by MVS image

Resources:

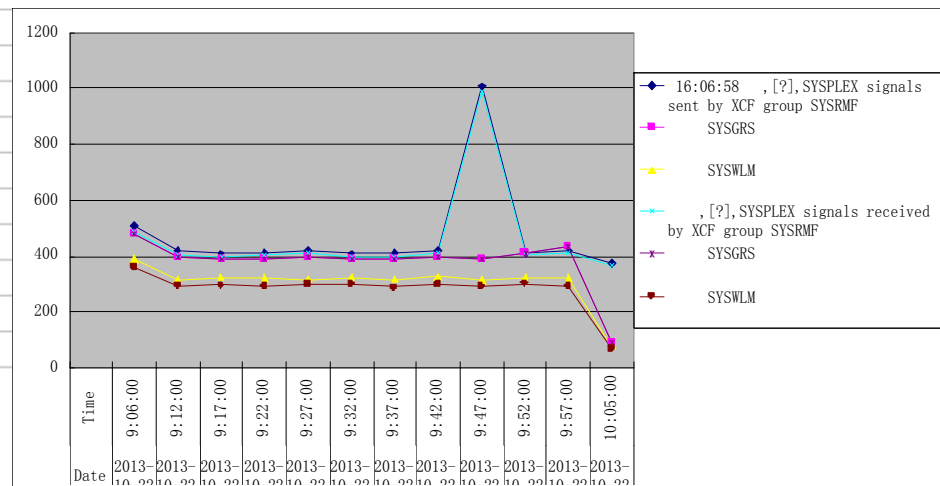
- P00
- P02
- P03

* available for z/OSMF V2.1 with PTF UI16044 and its requisite PTFs
 Complete your session evaluations online at www.SHARE.org/Seattle-Eval

Resource Monitoring – Spreadsheet Export (2)*

- One CSV file is created for each metric group in the dashboard. Multiple metric groups data will generate a compressed zip file.
- If the CSV file covers multiple metrics and resources (list value), the resulting table sorts the table columns: 1) by metric and 2) by resource.
- The user can view the performance data in table/chart and analyze

z/OSMF Resource Monitoring					
Exported:	2013/10/24 11:02:38				
Dashboard:	Coupling Facility Overview				
Metric group:	Requests-POKDDS				
Metric:	[,?],SYSPLEX total request ,[,?],SYSPLEX % total physical utilization (AAP) by partition				
Resource:	CF02	CF01	4255.VMC	4255.VMA	
Date	Time				
2013/10/24	4:43:00	53.8	33.3	0.2	0.1
2013/10/24	4:44:00	56.8	32.3	0.2	0
2013/10/24	4:45:00	53.3	32.6	0.2	0.1
2013/10/24	4:46:00	53.3	32.6	0.2	0.2
2013/10/24	4:47:00	52.9	33	0.2	0.1
2013/10/24	4:48:00	53.2	32.6	0.2	0.1
2013/10/24	4:49:00	52.9	32	0.2	0.1
2013/10/24	4:50:00	53.2	32.6	0.2	0.1
2013/10/24	4:51:00	54	32.8	0.2	0.1
2013/10/24	4:52:00	54.1	33.2	0.2	0.1



Complete your session evaluations online at www.SHARE.org/Seattle-Eval

z/OSMF Management Tasks

- Configuration
 - Configuration Assistant for z/OS Communications Server
- Performance
 - Capacity Provisioning
 - Resource Monitoring and System Status
- ➔ **Workload Management**
- Problem Determination
 - Incident Log
- Software
 - Management (originally called Deployment)
- z/OS Classic Interface
 - ISPF

Complete your session evaluations online at www.SHARE.org/Seattle-Eval

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

Workload Management

Overview Service Definitions

Store all service definitions in one repository

Service Definitions

Name	Description	Activity	Sysplex	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)

Complete your session evaluations online at www.ibm.com/ibm/seattle/eval

z/OSMF Workload Management 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
- Different authorization levels for viewing, modifying and installing service definition

The screenshot shows the z/OSMF Workload Management interface. The top navigation bar includes 'Facility', 'Welcome zosmfad', 'Log out', and the IBM logo. The main content area is titled 'Workload Management' and has tabs for 'Overview' and 'Service Definitions'. The 'Service Definitions' tab is active, displaying a table of service definitions. A context menu is open over the table, showing options like 'Modify Service Definition', 'View Service Definition', 'View Messages', 'View History', 'Print Preview', 'Install and Activate...', 'Copy...', 'Delete...', 'Export', 'View WLM Status', 'New...', 'Import', 'Select All', 'Deselect All', 'Configure Columns...', 'Hide Filter Row', 'Clear Filters', 'Modify Sort...', 'Clear Sorts', and 'Clear Search'. The table has columns for Name, Sysplex, Messages, Last Modified (GMT), and Modified By. The data rows show various service definitions with their respective statuses and modification dates.

Name	Sysplex	Messages	Last Modified (GMT)	Modified By
SHARPLE	Filter	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

Complete your session evaluations online at www.SHARE.org/Seattle-Eval

z/OSMF Workload Manager

Sessions 16655, 16940, or 16656
z/OSMF Hands-On Lab
Choose your Own

- **Enhancements in z/OSMF V1.13**
 - Persists user settings.
 - Supports different authorization levels.
 - Allows you to view details about the performance of your active service policy, service classes, workloads, and so on.
 - Allows you to activate a service policy when viewing or modifying a service definition.
 - Application Linking between WLM and Resource Monitoring
- **Enhancements in z/OSMF V2.1**
 - Supports service definition functionality level LEVEL029
 - Support the addition of comments to the service definition history*

* available for z/OSMF V2.1 with PTF UI16044 and its requisite PTFs

Application Linking: WLM to Resource Monitoring



The screenshot shows the IBM z/OS Workload Management (WLM) console interface. The top navigation bar includes 'Welcome', 'Workload Man...', 'System Status', and 'Resource Mon...'. The main area is titled 'Workload Management' and contains a 'Workloads' section with a list of workload names: APFC, BATCH, CICS, OMVS, STC, and TSO. A context menu is open over the TSO workload, with the option 'View Performance of All' highlighted. A blue arrow points from this menu item to the 'Resource Monitoring' dashboard. The dashboard displays performance metrics for the 'LOCALPLEX (Running)' service class, including a Performance Index table, Execution Velocity bar chart, Response Time table, and Percentile Response Time bar chart.

Messages	Last Modified (GMT)	Modified By
Filter	Filter	Filter
	Mar 30, 2011 2:31:17 PM	debug1
	Oct 16, 1998 11:58:16 AM	taoc

Performance Index	Value
CICSTX.1	0.5
OMVS.1	0.5

Response Time	Value
DSWTK.1	N/A
DDF.1	N/A
WEBFAST.2	N/A
WEBFAST.1	0.1

Complete your session evaluations online at www.SHARPE.com

Workload Management – Add Comments*

- When users create, modify, import, export, install and activate service policy, they can add comments to describe the intention of each action.
- Comments are saved along with each action in history data, and the user can also add comments to specific history record later.

Workload Management Help

Overview | Service Definitions | **New Service Definition**

Add comments to history | Notes | Switch To

Service Definition Details

To define a complete service definition, you must name the service definition and define at least one workload and one service class. To move between items within the service definition, use the *Switch To* dropdown.

* Service definition name:

Description:

Functionality level: 008

Service Coefficients

- * Central processing unit (CPU):
- * Input and output channel (I/O):
- * Main storage occupancy (MSO):
- * Service request block (SRB):

Service Options

Enable I/O priority management:

Comments

Comments for action:
Create new service definition by zosmfad

* Comments (Maximum 500 characters, currently 0 characters)

Enter comments about modifying this service definition. This comment will be added to the history for the service definition.

OK Cancel Help

Complete y

z/OSMF Management Tasks

- Configuration
 - Configuration Assistant for z/OS Communications Server
- Performance
 - Capacity Provisioning
 - Resource Monitoring and System Status
 - Workload Management
- Problem Determination
 - Incident Log
- Software
 - Management (originally called Deployment)
- z/OS Classic Interface
 - ISPF

Complete your session evaluations online at www.SHARE.org/Seattle-Eval

z/OSMF Problem Determination

Sessions 16655, 16940, or 16656
z/OSMF Hands-On Lab
Choose your Own

- **Auto-capture basic diagnostic materials, triggered when the dump is written to a data set**
 - Diagnostic data “snapshots” for transient data: Snapshots of 30 min OPERLOG or SYSLOG, 1 hr LOGREC detail, and 4-hour LOGREC summary
 - Incident Log will also 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
 - View, sort, and act on abend related incidents (identified by subsystem)
 - Package dump and log data for transmission in minutes

z/OSMF Problem Determination – Incident Log

- Enhancements in z/OSMF V1.12
 - Add additional comments and diagnostic data
 - Encrypted parallel FTP of the incident files, to IBM .
 - Download from <http://www14.software.ibm.com/webapp/set2/sas/f/zaid/pdof.html>
 - Sending additional user-defined data with an incident
- Enhancements in z/OSMF V1.13
 - APAR search terms displayed
 - View error log (LOGREC) or operations log (SYSLOG) via ISPF application link
 - Utilizes new Problem Documentation Upload utility in base of z/OS V1.13
 - Handle migrated datasets (PTFs for APARs PM46302 and OA37149)
 - Manage the deletion of incidents using a batch job (CEATool) (PTFs for APARs OA38812 and UA65835)
- Enhancements in z/OSMF V2.1
 - Increased the allowable length of the high-level qualifier for log snapshot data sets from four- to eight-characters*
 - Support a total of 256 characters for the FTP server host, FTP server port, and FTP.DATA file name when using the z/OS Problem Documentation Upload Utility (PDUU) transfer method.*
 - Enhance Incident Log to provide support for the use of SSH File Transfer Protocol (SFTP) for sending dumps and logs to IBM or another vendor.**

Complete

* available for z/OSMF V2.1 with PTF UI16044 and its requisite PTFs

** available for z/OSMF V2.1 with PTF UI90005 and its requisite PTFs

Incident Log – Manage Incidents



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

Incident Log [Help](#)

Incident Log Actions 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 BB000UTP	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			

Total: 14, Filtered: 5, Selected: 1

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

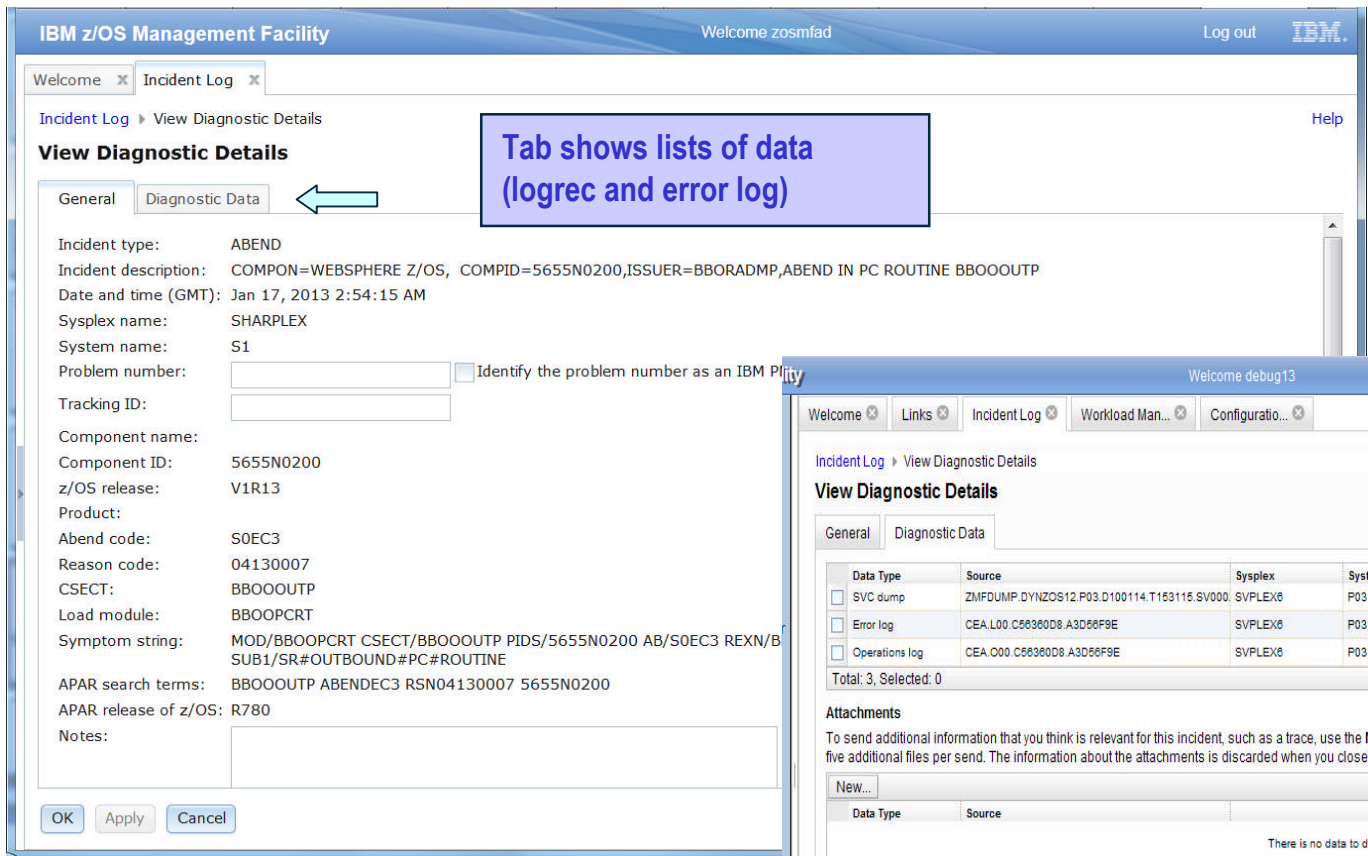
- Set Tracking ID...
- Set Problem Number...
- Add Notes...
- Delete Incident...
- Send Diagnostic Data...
- View Diagnostic Details
- FTP Job Status
- Allow Next Dump...

Select incident, get popup with actions

Complete your session evaluations online at www.SHARE.org/Seattle-Eval



Incident Log – Incident Details



View Diagnostic Details

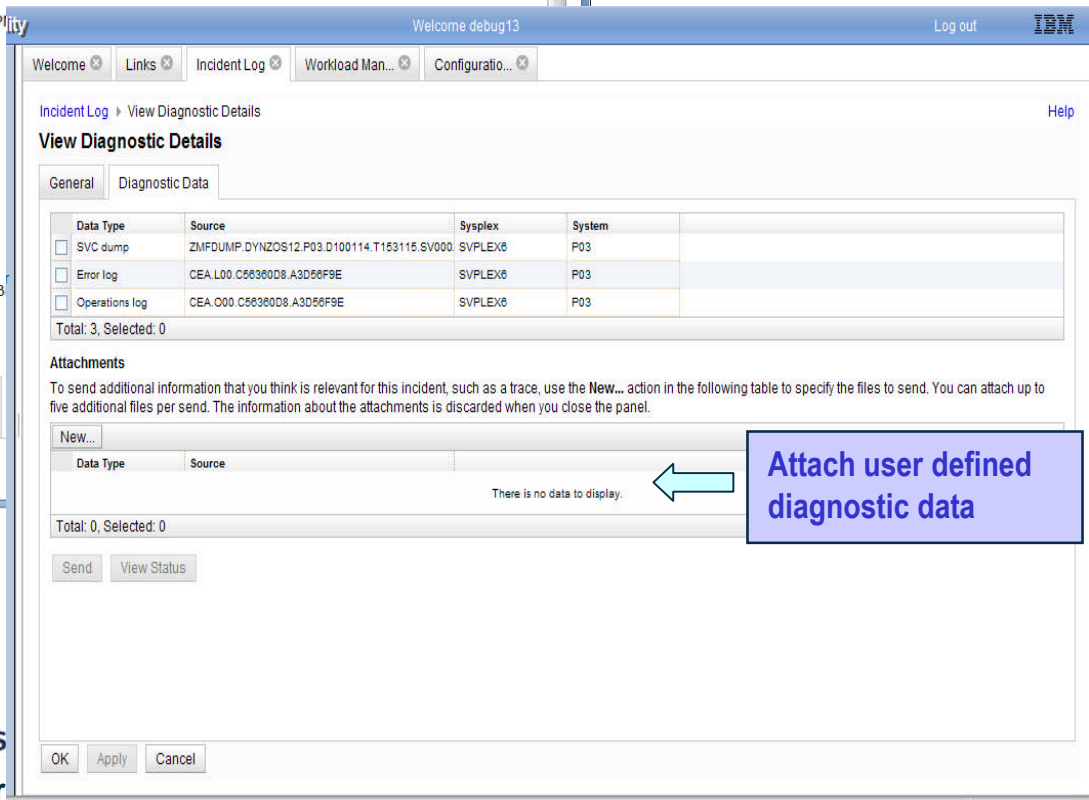
General Diagnostic Data

Incident type: ABEND
 Incident description: COMPN=WEBSPPHERE 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 Problem Number
 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/B SUB1/SR#OUTBOUND#PC#ROUTINE
 APAR search terms: BBOOOUTP ABENDEC3 RSN04130007 5655N0200
 APAR release of z/OS: R780
 Notes:

OK Apply Cancel

Tab shows lists of data (logrec and error log)

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



View Diagnostic Details

General Diagnostic Data

Data Type	Source	Sysplex	System
<input type="checkbox"/> SVC dump	ZMFDUMP.DYNZOS12.P03.D100114.T163116.SV000	SVPLEX6	P03
<input type="checkbox"/> Error log	CEA.L00.C56360D8.A3D56F9E	SVPLEX6	P03
<input type="checkbox"/> Operations log	CEA.C00.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

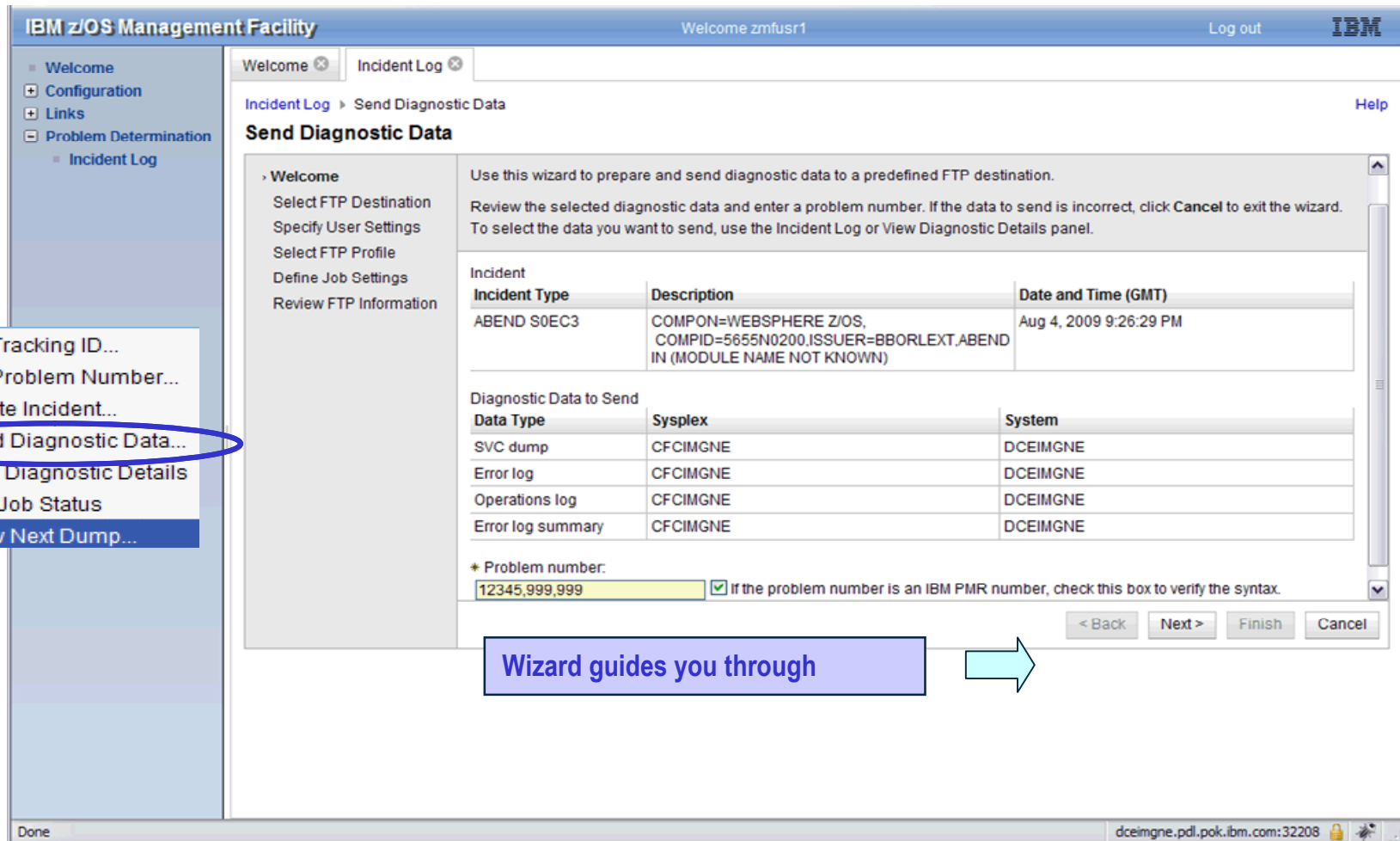
Send View Status

OK Apply Cancel

Attach user defined diagnostic data

- View logs directly
 - 8 char HLQ support for log snapshots
 - Delete incidents via GUI or batch CEATOOL
- Complete your session evaluations online at www.SHARE.org/S

Incident Log – Send Diagnostic Data



IBM z/OS Management Facility Welcome zmfusr1 Log out

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.

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 →

Complete your session evaluations online at www.SHARE.org/Seattle-Eval

Incident Log – SFTP Support **

- Incident Log provides new functionality to support openSSH based SFTP tool. It includes both the SFTP client and server of the IBM USS Ported Tools and other openSSH based 3rd party tools.
- New IBM default SFTP server
 - Americas: *IBM-testcase-mvs-sftp* and *IBM-testcase-tivoli-sftp*.
 - Asia Pacific/Europe: *IBM-ecurep-mvs-sftp* and *IBM-ecurep-tivoli-sftp*.
- Incident Log allows customers to do SFTP authentication with server by public key or by user/password.
 - The user name is required when SFTP is used, but the password is optional.
 - If the password is specified, the user/password authentication will be used, otherwise, the public key authentication is used.
- z/OSMF omits the password when authenticating with the IBM-ecurep SFTP servers because these servers do not support password authentication.
 - For other SFTP servers that do not support password authentication, you must select the Specify a user ID and password option and leave the Password field blank. Otherwise, an error will occur.

Complete ** available for z/OSMF V2.1 with PTF UI90005 and its requisite PTFs

Incident Log – Add Server and Profile for SFTP **



FTP Servers ▶ Add

Add FTP Server

* FTP server name:

* Host:

* Path name:

Port number (must be between: 1-65535):

Default port number

FTP profile:

Use the default profile. Currently, the default SFTP profile is No SSH Proxy Command.

Use the selected profile.

Select or type

Select...

Use anonymous user ID and password.

Description:

OK

Cancel

Transfer method:

FTP

SFTP (openSSH based secure FTP)

* Client utility path:

/bin/sftp

Default path

z/OS Problem Documentation Upload

Welcome x

Systems x

FTP Servers x

FTP Servers ▶ FTP Profiles ▶ Add

Add FTP Profile

* Profile name:

sftpProfile

Profile type:

FTP

SFTP

Make this profile the default SFTP profile.

* SSH proxy command:

ssh systemAB.xyz.1234.56789.abcdefg.pok.ibm.com exe

OK

Cancel

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** available for z/OSMF V2.1 with PTF UI90005 and its requisite PTFs

z/OSMF Management Tasks

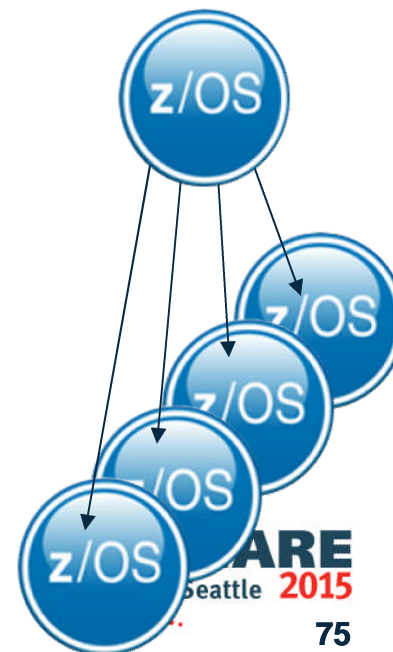
- Configuration
 - Configuration Assistant for z/OS Communications Server
- Performance
 - Capacity Provisioning
 - Resource Monitoring and System Status
 - Workload Management
- Problem Determination
 - Incident Log
- Software
 - ➔ **Management (originally called Deployment)**
 - z/OS Classic Interface
 - ISPF

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z/OSMF Software Management

Sessions 16655, 16940, or 16656
z/OSMF Hands-On Lab
Choose your Own

- z/OSMF Software Deployment will provide rigor in the deployment of SMP/E installed software.
- New task designed to make deployment of installed software simpler and safer.
 - Replaces manual and error prone procedures with a user friendly application
 - Incorporates IBM recommended best practices for software deployment.
- Software Deployment can clone software
 - Locally, either on a single system or system-to-system within a sysplex
 - Remotely, system-to-system across a network, even multiple sysplexes.
- Software Deployment can also:
 - Identify, modify, delete software instances
 - Generate jobs to copy a software instance
 - Verify cross-system and cross-product requisites, verify fixes
 - Copy ALL parts of the software (including SMP/E CSI inventory)
 - Helps identify actions including catalog, configuration, and security updates
- Software scope includes all SMP/E installed software:
 - IBM and ISV
 - z/OS, stack or individual products,
 - Service upgrades for all of the above (via complete replacement)



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z/OSMF Software Management (Deployment)



- An intuitive checklist helps guide you through the z/OS and related software deployment process
 - Select the software to deploy (a software instance)
 - Select the deployment objective
 - Report missing requisites and possible regressions
 - 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

The screenshot shows the IBM z/OS Management Facility interface. At the top, it says 'IBM z/OS Management Facility'. Below that, there are tabs for 'Welcome' and 'Software Man...'. The main content area is titled 'Software Management > Deployments > Deployment Checklist'. Underneath, it says 'Deployment Checklist' and 'To deploy a software instance, complete the checklist.' There is a 'Checklist' section with a table:

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.

At the bottom of the checklist area, there is a 'Close' button.

Complete your session evaluations online at www.SHARE.org/Seattle-Eval

Software Management (Deployment)

- **Enhancements in z/OSMF V2.1**

- Make it easier to add non-SMP/E-managed data sets to a software instance.*
- Offer a more convenient way to edit mount points for the z/OS UNIX System Services file system.*
 - Simplifies management of multiple mount points for z/OS UNIX file system data sets during a deployment operation.
- Provide support for the use of SFTP for remote software deployments.**
- Provide integrated management of the generated deployment jobs.**

* available for z/OSMF V2.1 with PTF UI16044 and its requisite PTFs

** available for z/OSMF V2.1 with PTF UI90005 and its requisite PTFs

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Software Management – “Submit deployment jobs” step **



- A new step 'Submit deployment jobs' is added in Deployment Checklist, in which jobs can be submitted & managed by

Software Management ▶ Deployments ▶ Deployment Checklist

Deployment Checklist

To deploy a software instance, complete the checklist.

Checklist

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

Comp

Close

** available for z/OSMF V2.1 with PTF UI90005 and its requisite PTFs



Software Management - Submit and manage jobs ^{**}



- Job management actions provided to allow user to browse, submit, view status and results of jobs. These actions include:
 - Submit Job : Jobs must be run in sequence
 - View JCL, Job Output : Single selection action
 - Cancel : Single selection action
 - Purge : Multiple selection action
 - Override Complete : Multiple selection action, mark the complete status

[Software Management](#) > [Deployments](#) > [Deployment Checklist](#) > [Submit Deployment Jobs](#)

Submit Deployment Jobs

Review the jobs created for this deployment, and submit the jobs in sequential order. When all the jobs are complete, click **Close** to proceed to the r

JCL data set name: ZOSMFAD.DM.D140625.T162244.CNTL
 Target system: PEV171

Jobs

Sequence Filter	JCL Data Set Member Name Filter	Description [More Less] Filter	System Filter	Status Filter
<input checked="" type="checkbox"/>	1	IZUD01CP Copy Data Sets: Copy the source software instance data sets to [More]	PEV171	<input checked="" type="checkbox"/> Complete
<input type="checkbox"/>	2	IZUD02RN get software instance data sets [More]	PEV171	
<input type="checkbox"/>	3	IZUD03UC sets: Update the entries within the SMP/E CSI data [More]	PEV171	

View

- ▶ JCL
- Job Output
- Submit Job
- Purge...
- Cancel...
- Override Complete

Con

** available for z/OSMF V2.1 with PTF UI90005 and its requisite PTFs



Software Management – SFTP support **

- In Deployment Checklist for a remote deployment, the pane of 'Define Job Settings' has a new tab called 'Transfer Settings'. User needs to select a FTP or SFTP server from the FTP server selector
- If user chooses an OpenSSH SFTP server, source software instance data sets must be copied into UNIX file. Generated deployment jobs add related processing automatically according to FTP choice.

Define Job Settings

To specify the job settings, provide the information requested on the Source System, Target System, system in the specified JCL data set. z/OSMF does not run the jobs.

Source system: PEV171

Target system: PEV173

Source System Target System **Transfer Settings**

* FTP server on the source system:

Select or type

- IBM-ap-mvs
- IBM-ap-tivoli
- IBM-ecurep-mvs
- IBM-ecurep-mvs-sftp

* FTP server on the source system:

IBM-ecurep-mvs-sftp

Transfer method:

SFTP

* Client program path:

Authentication credentials to log into the SFTP server on the source system:

* SFTP server user ID:

ZOSMFAD

SFTP server password:

Select the SFTP profile required by the target system to connect to the SFTP :

* SFTP profile:

Select or type

* Source system work directory:

* Target system work directory:

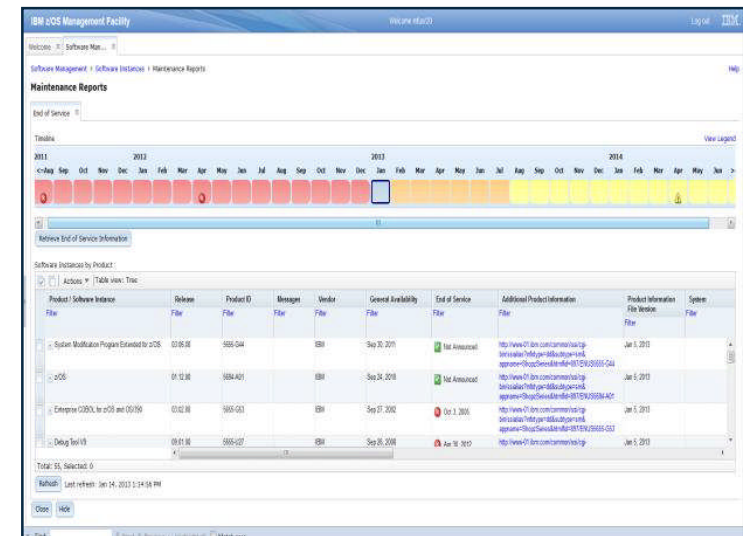
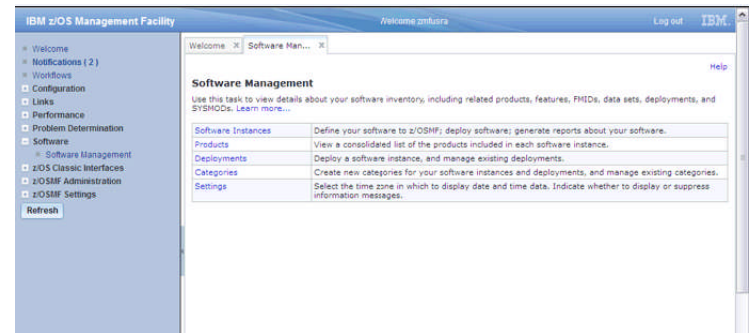
** available for z/OSMF V2.1 with PTF UI90005 and its requisite PTFs

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Sessions 16655, 16940, or 16656
z/OSMF Hands-On Lab
Choose your Own

z/OSMF Software Management

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



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Software Management

• Enhancements in z/OSMF V2.1

- New in z/OSMF V2.1 you can print and export reports about your software and installed products.
 - Additional tables planned to be supported***
- Make it easier to add non-SMP/E-managed data sets to a software instance.*
- Add new tab to view SMP/E managed UNIX file system data sets and related UNIX directories can be viewed easily.*
- Improved End of Service report**
 - User can choose multiple product information files to retrieve End of Service information
- REST API planned to be added to allow a client application to interact with the z/OSMF Software Management task***. The new services allow a caller to:
 - List the software instances defined to z/OSMF
 - Retrieve the properties of a software instance
 - Add a new software instance.

* available for z/OSMF V2.1 with PTF UI16044 and its requisite PTFs

** available for z/OSMF V2.1 with PTF UI90005 and its requisite PTFs

*** planned availability (March 30, 2015) with PTFs for APARs PI32158 and requisite PTFs

Software Management – Improved EOS report **



Select Product Information File

A product information file contains information about one or more products, such as the product announce date, general availability date, and end of service date. To retrieve information from and click **Retrieve**.

Product information files:

Select files that reside on or can be accessed by primary system

Product Information Files

File Filter	Description Filter	Version Filter	Activity Filter	HTTP Proxy Filter	Last Retrieved (Local) Filter	Retrieved By Filter
<input checked="" type="checkbox"/> http://public.dhe.ibm.com/services/zosmf/JSONs/IBMProductEOS.txt	This product information file contains details about IBM System z® software.	Aug 7, 2014			Aug 8, 2014, 4:48:51 PM	DEBUG26
<input checked="" type="checkbox"/> USER.VENDOR.PRODUCT.EOSINFO	The VENDOR Product End Of Service information					

Total: 2, Selected: 2

Last refresh: Aug 15, 2014, 3:51:24 PM local time (Aug 15, 2014, 7:51:24 AM GMT)

Select a file that resides on your local workstation
Select the product information file to retrieve from your local workstation.

*File name:

Change options in Action menu to radio buttons

User can choose multiple product information files to retrieve End of Service information

** available for z/OSMF V2.1 with PTF UI90005 and its requisite PTFs

z/OSMF Management Tasks

- **Configuration**
 - Configuration Assistant for z/OS Communications Server
- **Performance**
 - Capacity Provisioning
 - Resource Monitoring and System Status
 - Workload Management
- **Problem Determination**
 - Incident Log
- **Software**
 - Management (originally called Deployment)
- **z/OS Classic Interface**



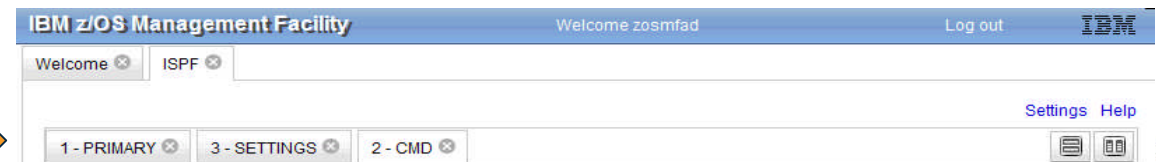
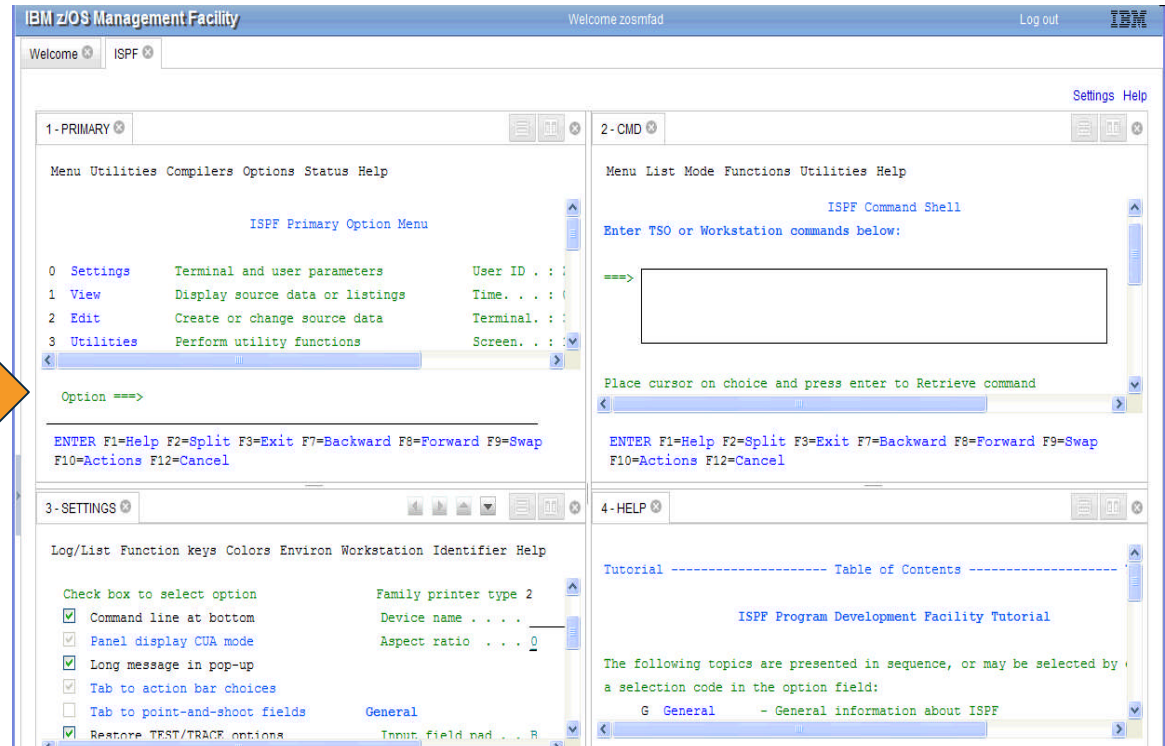
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z/OSMF and ISPF

Work with existing interfaces



- Enables system programmer to perform tasks from one interface.
 - Also 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 for a total of 8 tabs
 - Shows ISPF Menu bar, Command line, Function keys
- Also available in tabbed format



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z/OSMF and ISPF

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 blank text

Show settings dialog with every logon.

OK Apply Cancel Help

- Customize settings

Welcome | ISPF

1- TSO Messages

```

ENTER DATA SET NAME -
IMUSER.RCD.TRACE
--RECIN-LAENL-BLURISE-D000
FB  00  6160  **
--VOLUMES--
PAGE05
TIME=10:14:12 AM. CPU=00:00:00 SERVICE=6927 SESSION=00:00:42 JANUARY 13, 2011

ENTER DATA SET NAME -
    
```

OK Abort Clear Help

ENTER F1=Help F2=Split F3=Exit F4=Backward F5=Forward F6=Over F7=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)

HP	JOBNAME	JobID	Owner	PrtY	Queue	C	For	SAf	ASys	Status
---	ZOSMPAD	TSU00077	DOSMPAD	15	EXECUTION			SV1	SV1	
---	ZOSMPAD	TSU00081	DOSMPAD	15	EXECUTION			SV1	SV1	
---	SYSLOG	STC00002	*MASTER*	15	EXECUTION			SV1	SV1	
---	VTAM44	STC00007	*****	15	EXECUTION			SV1	SV1	ARJELN
---	XCFTLJNH	STC00008	IMUSER	15	EXECUTION			SV1	SV1	
---	GRASRKH	STC00011	*****	15	EXECUTION			SV1	SV1	
---	IFS	STC00015	DFS	15	EXECUTION			SV1	SV1	
---	INIT	STC00020	IMUSER	15	EXECUTION			SV1	SV1	
---	INIT	STC00021	IMUSER	15	EXECUTION			SV1	SV1	
---	INIT	STC00022	IMUSER	15	EXECUTION			SV1	SV1	
---	TCAS	STC00023	IMUSER	15	EXECUTION			SV1	SV1	
---	BFZAS	STC00026	IMUSER	15	EXECUTION			SV1	SV1	
---	BFZAS	STC00028	IMUSER	15	EXECUTION			SV1	SV1	
---	RESOLVER	STC00040	TCPIPMS	15	EXECUTION			SV1	SV1	
---	TCPIP	STC00041	TCPIP	15	EXECUTION			SV1	SV1	ARJELN
---	RRNS001	STC00046	NSCH01	15	EXECUTION			SV1	SV1	ARJELN

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

z/OSMF ISPF - Enable Ctrl key*

- User can use z/OSMF WebISPF Ctrl key as Enter key; This allows the user to submit requests in a way similar to 3270 z/OS ISPF.

z/OSMF ISPF User Settings

Ctrl key as Enter key takes effect immediately after pressing the OK or Apply buttons. Other settings take effect when you start (or restart) ISPF. Color selections also take effect at the next z/OSMF ISPF page refresh.

Show settings dialog with every logon.

Enable Ctrl key as Enter key.

Logon procedure: CEANN

Region size (kilobytes): 0

Account number: 123789

User group: ZOSMFGRP

Profile sharing: On

Screen size rows: 204

Screen size 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

OK Apply Cancel Help

The default is unchecked

Complete * available for z/OSMF V2.1 with PTF UI16044 and its requisite PTFs

Agenda

- Overview of z/OS Simplification Efforts
 - The z/OS Management Facility (z/OSMF)
- What's New in z/OSMF V2.1
 - Use of the WebSphere Application Server Liberty profile
 - Workflows
 - Support for External Applications*
- z/OSMF Management Tasks
 - Configuration
 - Performance
 - Problem Determination
 - Software
 - z/OS Classic Interface: ISPF
- **Other z/OSMF Capabilities**
 - **Security**
 - System**
 - Programmatic Interface for z/OSMF

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z/OSMF Administration: SAF-Based Security



- **z/OSMF enhanced its authorization model to provide tighter integration with Enterprise Security Management products.**
 - New (z/OSMF V1.13) resource class pair for z/OSMF
 - ZMFAPLA resource class
 - GZMFAPLA grouping class
- Use of SAF groups to represent z/OSMF roles
 - connection of z/OSMF users to these new Groups
 - Resource names associated with all z/OSMF tasks and links.
 - Resource class profiles control authorization to z/OSMF managed resources.
- **Support for custom roles via creation of additional SAF groups at system programmer's discretion.**
- **Granularity of access determined by z/OSMF resource profile permissions for a given group.**
- **Exploitation of Resource Classes, profiles, and groups**
 - Plug-ins register resource names associated with each of their tasks
 - All task resource names associated with the ZMFAPLA resource class.
 - IBM reserved resources: ZOSMF.<plugin-name>.<task-name>.<action-control-qualifier>
 - The plug-in profile will be defined at deployment time.
 - For delayed deployment and activation of plug ins create profiles when plug-in is deployed
 - Definition of SAF Groups and connection of z/OSMF users to these new Groups
 - Groups permitted to z/OSMF resource profiles (in ZMFAPLA) to facilitate z/OSMF Role support

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z/OSMF Administration: SAF-Based Security ...



- **Enhancements in z/OSMF V2.1**

- Repository mode removed

- SAF-based security, previously referred to as SAF Authorization Mode, is now the only supported means of creating and managing user authorizations in z/OSMF.
- Related to this change, the Users task and Roles task in the z/OSMF Administration category are no longer needed, and are thus removed from the navigation area.
- You have the ability to convert to SAF mode while on z/OSMF V1.13 or during the migration to z/OSMF V2.1

- New Appendix A, “Security configuration requirements for z/OSMF”

- This appendix describes the security configuration requirements for z/OSMF.

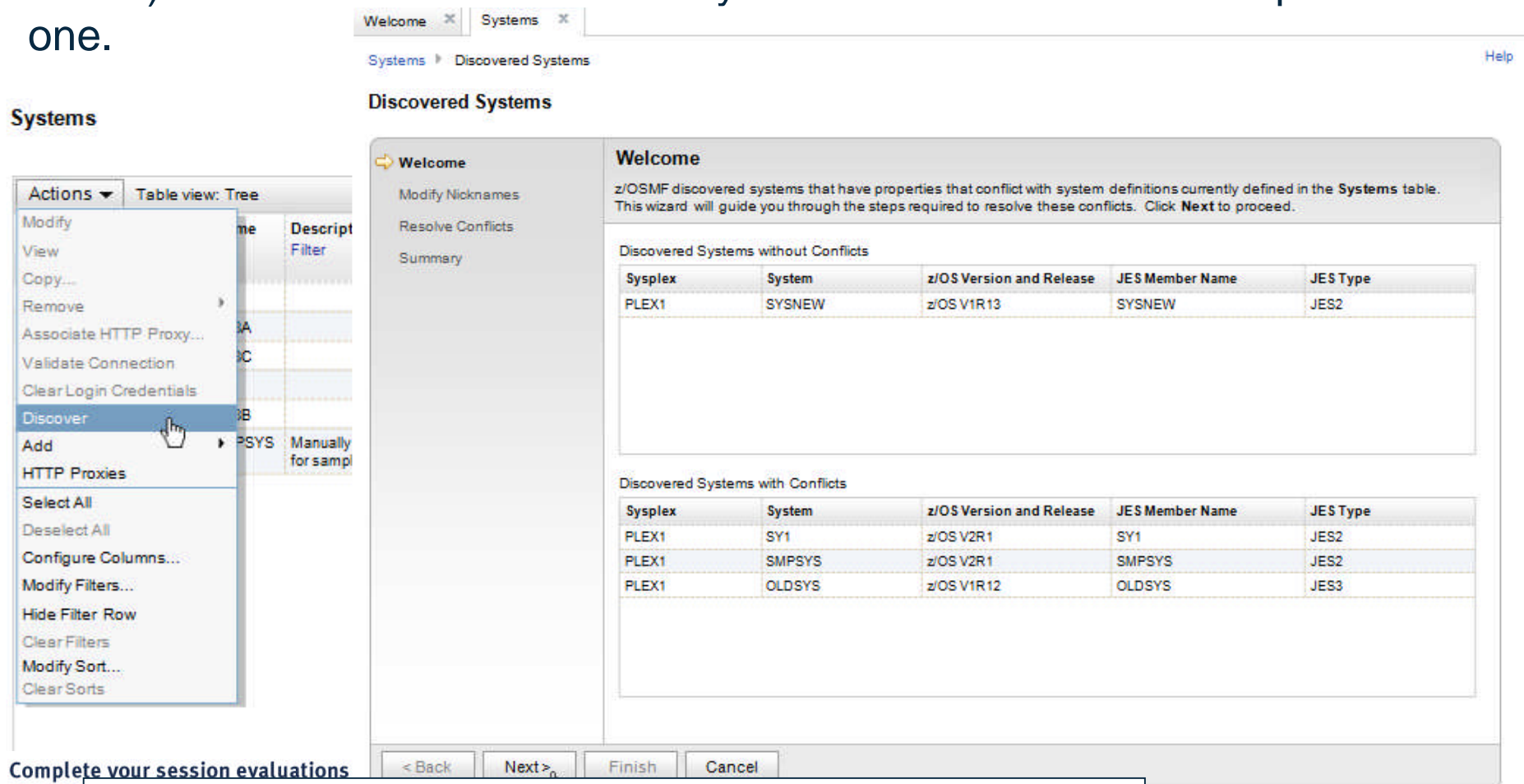
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- **Other z/OSMF Capabilities**
 - Security
 - **System****
 - Programmatic Interface for z/OSMF



System setting – Discover **

- Discover the system definition that hosts the z/OSMF instance automatically.
- When a conflict occurs (same sysplex and system name but other attributes differs) the user can add a new entry with another nickname or update the old one.



The screenshot shows the 'Systems' management interface. On the left, a context menu is open over a table, with the 'Discover' option highlighted. The main window displays the 'Discovered Systems' wizard. The wizard has a 'Welcome' tab and a 'Summary' tab. The 'Welcome' tab contains the following text: 'z/OSMF discovered systems that have properties that conflict with system definitions currently defined in the Systems table. This wizard will guide you through the steps required to resolve these conflicts. Click **Next** to proceed.'

The wizard displays two tables:

Discovered Systems without Conflicts

Sysplex	System	z/OS Version and Release	JES Member Name	JES Type
PLEX1	SYSNEW	z/OS V1R13	SYSNEW	JES2

Discovered Systems with Conflicts

Sysplex	System	z/OS Version and Release	JES Member Name	JES Type
PLEX1	SY1	z/OS V2R1	SY1	JES2
PLEX1	SMPSYS	z/OS V2R1	SMPSYS	JES2
PLEX1	OLDSYS	z/OS V1R12	OLDSYS	JES3

At the bottom of the wizard, there are navigation buttons: '< Back', 'Next >', 'Finish', and 'Cancel'. The 'Next >' button is highlighted.

Complete your session evaluations

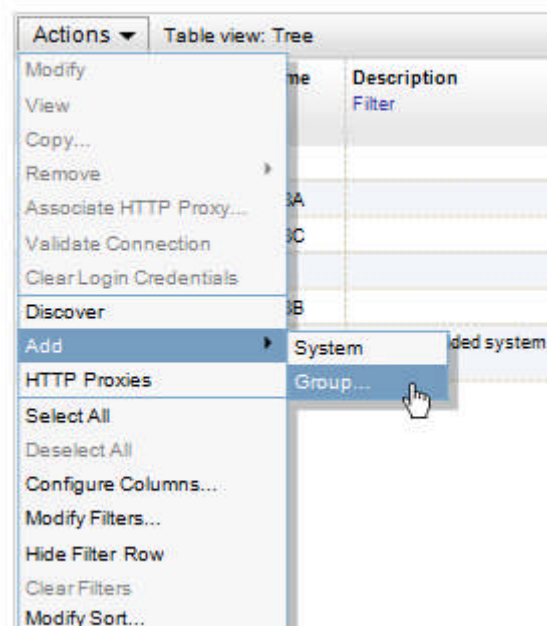
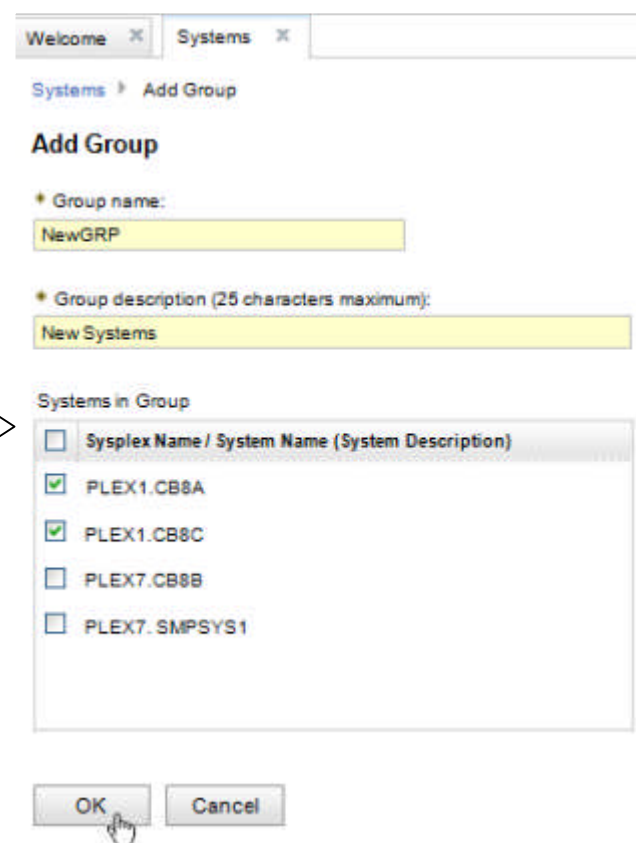
** available for z/OSMF V2.1 with PTF UI90005 and its requisite PTFs

System setting – Group **

- The group definition is introduced.
 - A group represents a logical list of system entries (which can be exploited by other plug-ins in the future)
- User can link systems to groups in “Add Group”, “Modify Group”, “Add System”, “Modify System” panels.
- System table is changed to tree view.

Default view is by sysplex, can be changed to view by group

Systems

Complete your session evaluations online

** available for z/OSMF V2.1 with PTF UI90005 and its requisite PTFs

UI and Currency **

- The header and footer of the Welcome page are now 256 characters wide
- Dojo version is upgraded from Dojo 1.7.2 to Dojo 1.9.1.
- KC CI 1.5 replaces KC Local 1.0 (Knowledge Center Help system)
- z/OSMF is enhanced to provide support for Firefox ESR 24 and IE 10

	Windows 7 32 bit	Windows 7 64 bit	Windows 8 Pro, Desktop
Internet Explorer 8.x	Yes	Yes	No
Internet Explorer 8.x (64)	No	Yes	No
Internet Explorer 9.x	Yes	Yes	No
Internet Explorer 9.x (64)	No	Yes	No
Internet Explorer 10.x	Yes	Yes	Yes
Internet Explorer 10.x (64)	No	Yes	Yes
Firefox ESR 24	Yes	Yes	Yes

** available for z/OSMF V2.1 with PTF UI90005 and its requisite PTFs

Complete your session evaluations online at www.SHARE.org/Seattle-Eval

Programmatic Interface for z/OSMF

- **REST API for Jobs (z/OSMF V1.13) for submitting and accessing batch job**
 - Enhancements in z/OSMF V2.1:
 - Support for JCL symbolics, use correlator instead of jobname/jobid, asynchronous notification on job completion
 - Support for submit job to secondary JES subsystem *
 - Support for hold & release a job *
 - Some REST services can be run synchronously, if coded to use the latest version of the service. **
- **REST API for Data Sets and Files to list the data sets or UNIX files and directories on a z/OS system. ***
 - List the members of a z/OS partitioned data set (PDS or PDSE)
 - Retrieve the contents of a sequential data set, or a member of a PDS or PDSE
 - Retrieve the contents of a z/OS UNIX file
 - Write data to a sequential data set or a member of a PDS or PDSE
 - Write data to a z/OS UNIX file.

* available for z/OSMF V2.1 with PTF UI16044 and its requisite PTFs

** available for z/OSMF V2.1 with PTF UI90005 and its requisite PTFs

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Programmatic Interface for z/OSMF

- **REST API for z/OSMF Information Retrieval (z/OSMF V2.1 with PTF UI90005) ** to obtain information about z/OSMF on the z/OS host system**
 - You can retrieve version, release, and service level. With this information, a program can determine which z/OSMF plug-ins and core functions are available for use on a given system.
- **REST API planned to be added to work with the groups, sysplexes, and systems that are defined to z/OSMF***.**
 - You can list: the systems defined to z/OSMF; the groups defined to z/OSMF; the systems included in a group; the sysplexes defined to z/OSMF; or the systems included in a sysplex.
- **REST API planned to be added to allow a client application to interact with the z/OSMF Software Management task***.**
 - You can: list the software instances defined to z/OSMF; retrieve the properties of a software instance; or add a new software instance.
- **REST API planned to be added to allow you to create and manage a workflow programmatically.*****

** available for z/OSMF V2.1 with PTF UI90005 and its requisite PTFs

*** planned availability (March 30, 2015) with PTFs for APARs PI32148 and requisite PTFs

Summary - What's New in z/OSMF V2.1



- **z/OSMF V2.1 uses the WebSphere Application Server Liberty profile**
 - **Runs on smaller configurations**
 - Requires available CPU resource equivalent to a processor with a processor capacity index (PCI) of at least 45.
 - **Initializes faster**
 - **Uses less CPU**
 - **Uses less memory**
 - Requires one gigabyte (1 GB) of central storage.
 - This amount is in addition to your existing storage allocation for other applications running in the same z/OS system.
 - **Installation of service is easier**
 - You no longer have to run a script (izusetup –service)
- **z/OSMF V2.1 provides:**
 - **A new Workflow Application and Notifications**
 - **Enhancements to many z/OSMF applications (plug-ins)**

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PTF UI16044 (and its requisite PTFs) *



This PTF (and its requisite PTFs) introduce a new:

- **Import Manager** task in the z/OSMF Administration category.
 - Administrators can use the Import Manager task to import plug-ins, event types, event handlers, and links into z/OSMF.
 - **SDSF PTF UI15294** provides the descriptor to enable SDSF to be used as an external z/OSMF task
- **z/OS data set and file REST interface**
 - This API allows an HTTP client application to work with z/OS data sets and UNIX files on the z/OSMF host system.

Several existing z/OSMF functions are enhanced:

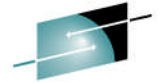
- The **Incident Log** task
- The **ISPF** task
- The **Resource Monitoring** task
- The **Software Management** task
- The **Workflows** task
- The **Workload Management** task
- The **z/OS jobs REST interface** services API

* available for z/OSMF V2.1 with PTF UI16044 and its requisite PTFs (March 2014)

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z/OSMF's Most Recent Enhancements **



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The following new functions have been made available by PTFs UI90004, UI90005, UI90006, UI90007, UI90008, UI90009, UI90010, UI90011, UI90012, UI90013, and UI90014 (9/30/2014):

- Provide browser support for Mozilla Firefox ESR 24 and Microsoft Internet Explorer 10.
- Enhance Incident Log to provide support for the use of SSH File Transfer Protocol (SFTP) for sending dumps and logs to IBM or another vendor.
- Enhance the Software Deployment function of Software Management to:
 - Provide support for the use of SFTP for remote software deployments.
 - Provide integrated management of the generated deployment jobs.
- Enhance the Workflows task to enable:
 - A workflow step to be designed to save its output in an *output file* which on completion of the step, the contents of the output file become available for use by subsequent steps in the workflow instance, or by other workflow instances.
 - A workflow step to be designed to be performed conditionally, based on whether a logical condition is satisfied on the z/OS system.
- Enhance the configuration workflow through the discovery functions of z/OS and z/OSMF configuration settings to determine the status of the current setup.
- Provide z/OSMF REST services support for editing and browsing files and data sets
- A new REST service is added to allow a caller to obtain information about z/OSMF on the z/OS host system
- The 'Systems' task now provides support for defining groups for organizing your systems.
 - Allows users to view the system definitions in the Systems table by sysplex or group.
 - Adds a new Discover action, which allows users to discover and create system definitions for the active systems that belong to the same JES2 multi-access spool (MAS) or JES3 complex as the z/OSMF host system..

** available for z/OSMF V2.1 with PTF UI90005 and its requisite PTFs (September 2014)

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z/OSMF's Upcoming Enhancements ***



The following new functions are planned to be made available by March 30 2015:

- Provide z13 support in Resource Monitoring
- Enhance the Systems task to:
 - Support for organizing the system definitions by CPC (central processor complex).
 - Support for establishing a secure single sign-on (SSO) environment using the Third Party Authentication (LTPA) security protocol in System task.
- Enhance the Workflows XML schema to support workflow-to-workflow execution.
- Provide a scope option for customizing the JOB statement for a workflow.
- Enhance the z/OSMF configuration workflow to figure out the status of the current setup to determine what steps are required complete the z/OS requirement setup for ISPF, WLM, Capacity Provisioning, or Incident Log.
- Enhance the z/OSMF topology REST API to work with the groups, sysplexes, and systems that are defined to z/OSMF.
- Provide a REST API to list the software instances defined to z/OSMF; retrieve the properties of a software instance; or add a new software instance.
- Provide a REST API to allow you to create and manage a workflow programmatically.

*** planned availability (March 30, 2015) with PTFs for APARs PI32148, PI32157, PI32158, and PI32163

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Shameless Plugs

- **You can try some of these great functions THIS WEEK!!!**
 - Without having to install or configure z/OSMF
 - **Just attend one of the z/OSMF Hands-On Lab sessions**
 - **z/OS SDSF using z/OSMF**
 - **z/OSMF Incident Log**
 - **z/OSMF Software Deployment**
 - **z/OSMF Software Management**
 - **z/OSMF Workflows**
 - **z/OSMF Workload Management**
 - **Three opportunities on Wednesday, Thursday, and Friday**
 - You can follow self guided instructions on how to use a number of z/OSMF functions
 - You can perform multiple exercises and attend more than one lab session
- **Separate Labs for:**
 - **z/OSMF Configuration Assistant**
 - **z/OSMF Resource Monitoring**

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More Shameless Plugs ...

- **If you plan on installing z/OSMF V2.1 come hear how to configure z/OSMF by attending session 16654 z/OSMF V2.1 Implementation and Configuration Thursday 8:30 AM**
- **If you are interested in seeing how to use z/OSMF Workflows to configure z/OS functions/capabilities, attend session 16646: Using z/OSMF Workflows for Configuration on Wednesday 11:15 AM**
- **If you are interested in using z/OSMF's REST APIs attend session 16935: z/OSMF 2.1 Advanced Programming Thursday 1:45 PM**

Thank You



Complete your session evaluations online at www.SHARE.org/Seattle-Eval

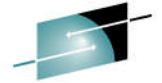
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Backup

Additional information

- **z/OS Management Facility website**
 - <http://www-03.ibm.com/systems/z/os/zos/features/zosmf/index.html>
- **IBM z/OS Management Facility Browser Compatibility**
 - http://www-03.ibm.com/systems/z/os/zos/features/zosmf/browser_notes.html
- **z/OS Management Facility Publications**
 - <http://www-03.ibm.com/systems/z/os/zos/features/zosmf/moreinfo/>
 - Program Directory for z/OS Management Facility (GI11-9847)
 - IBM z/OS Management Facility Configuration Guide (SA38-0657)
 - IBM z/OS Management Facility Programming (SA32-1066)
- **z/OS Management Facility Resource Requirements**
 - <http://www-03.ibm.com/support/techdocs/atmastr.nsf/WebIndex/WP101779>
- **z/OS Management Facility Downloads**
 - <http://www-03.ibm.com/systems/z/os/zos/features/zosmf/downloads/>

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