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z/OS Management Facility (z/OSMF) 1.12 Overview

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March 1, 2011

Session 8922

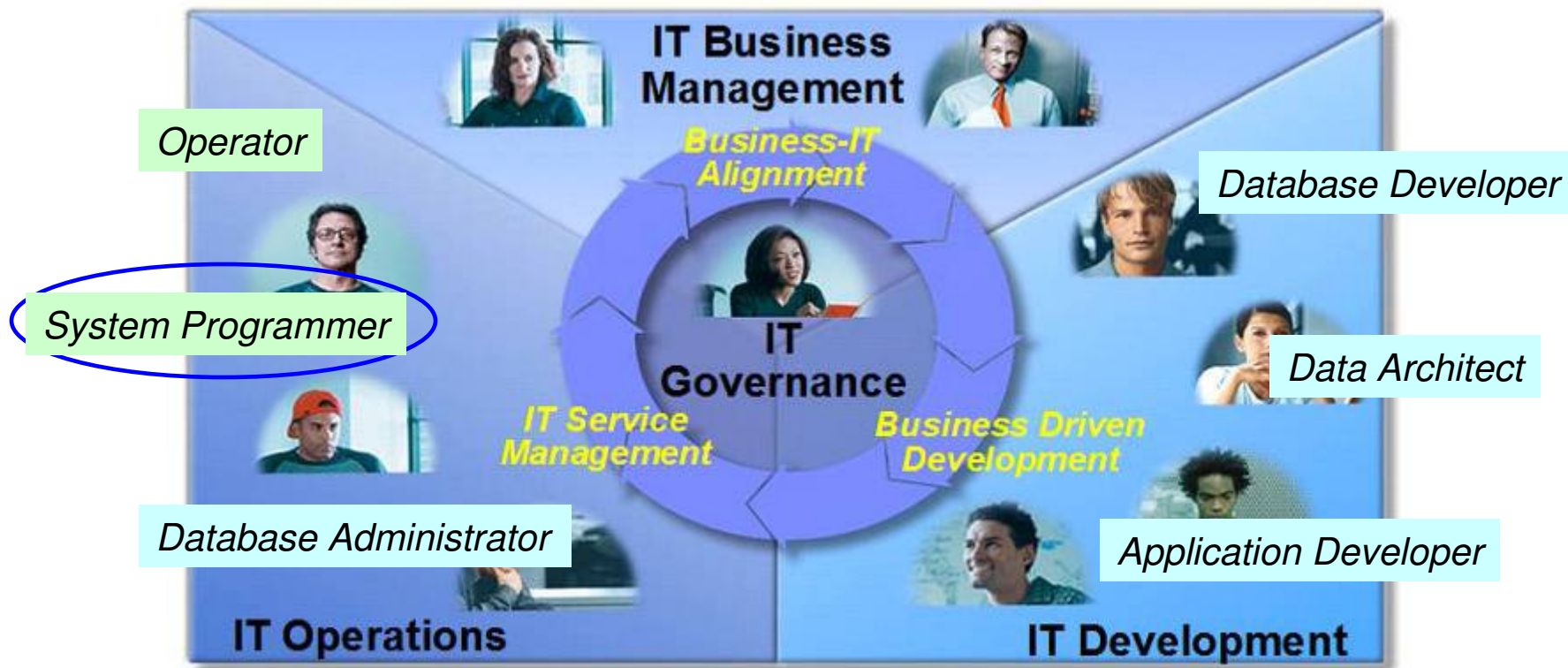


Agenda

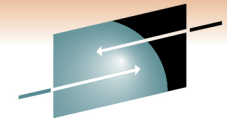
- **z/OSMF Overview**
- **z/OSMF Functions**
 - Incident Log
 - Configuration Assistant for the z/OS Communications Server
 - WLM Policy Editor
 - Resource Monitoring
 - Proposed z/OSMF V1.13 functions
 - Administration
- **Summary**

IT Organizational Domains

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



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



S H A R E

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Focus Areas for Simplification

Problem Determination and Analysis

- Monitoring health; identifying real and potential problems
- Analyzing and resolving problems

Configuration

- Adding or changing system components; enabling new features; defining and updating policies that affect system behavior.

Simplify and modernize the System Programmer User Experience

Deliver solutions in a task-oriented browser-based user interface with integrated user assistance

Information

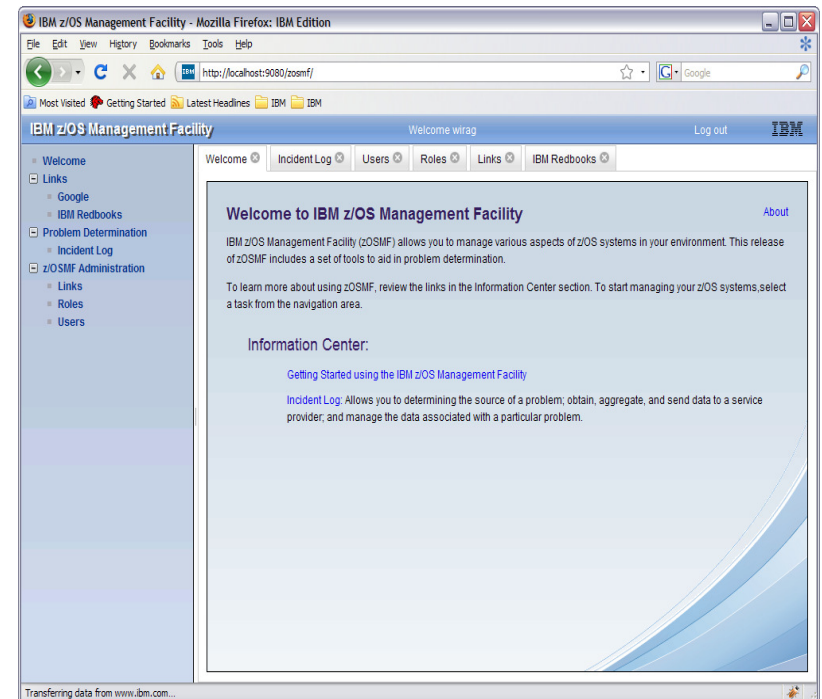
Finding the information needed to use z/OS

Installation

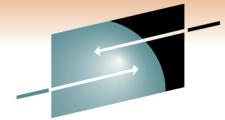
- Ordering and acquiring software
- Analyzing and identifying service needed for new hardware and software functions
- Migrating from on release to the next

IBM z/OS Management Facility

- **The IBM z/OS Management Facility is a new product for z/OS that provides support for a modern, Web-browser based management console for z/OS.**
- First release is z/OSMF 1.11, introduced with z/OS 1.11
- Helps system programmers to more easily manage and administer a mainframe system by simplifying day to day operations and administration of a z/OS system.
- More than just a graphical user interface, the z/OS Management Facility is intelligent, addressing the needs of a diversified skilled workforce and maximizing their productivity.
 - Automated tasks can help reduce the learning curve and improve productivity.
 - Embedded active user assistance (such as wizards) guides you through tasks and helps provide simplified operations.



Focus on System Programming



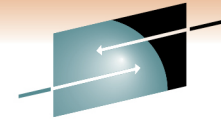
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- **Address the needs for a mixed skilled workforce.**
- **Make System Programmers who are new to the mainframe productive more quickly by:**
 - Providing a modern browser-based user interface that is more familiar to those new to the platform
 - Automating tasks, thus reducing the learning curve
 - Embedding active user assistance in the UI (e.g., wizards that guide users through tasks, interactive troubleshooting aids).
- **Make experienced System Programmers more productive by:**
 - Making functions easier
 - z/OS Management Facility is optional for those who prefer traditional interfaces



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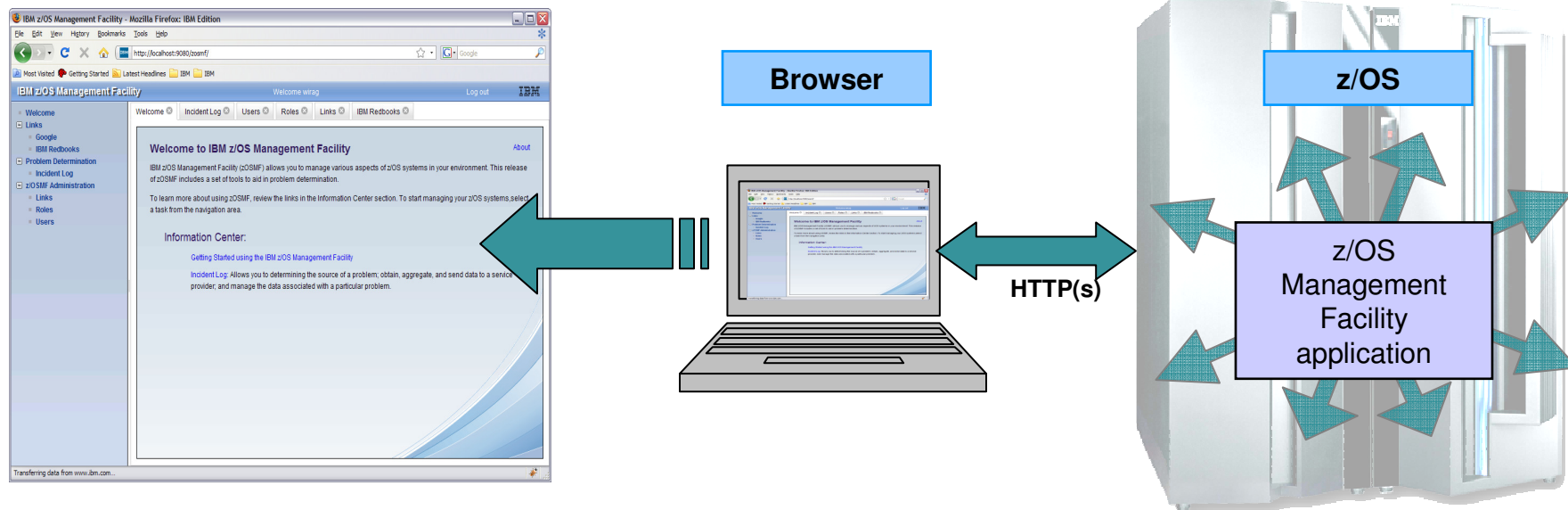


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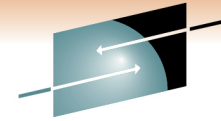
IBM z/OS Management Facility

z/OS application, browser access



- **z/OS Management Facility is a Web 2.0 application on z/OS**
 - Manages z/OS from z/OS
 - Browser communicates with z/OS MF via secure connection, anywhere, anytime
 - z/OSMF V1R11 is supported on z/OS V1R10 w/maint, z/OSV1R11, and z/OS V1R12
 - z/OSMF V1R12 is supported on z/OS V1R12, and z/OS 1.13*
 - z/OSMF V1R13 is to be supported on z/OS V1R13*

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

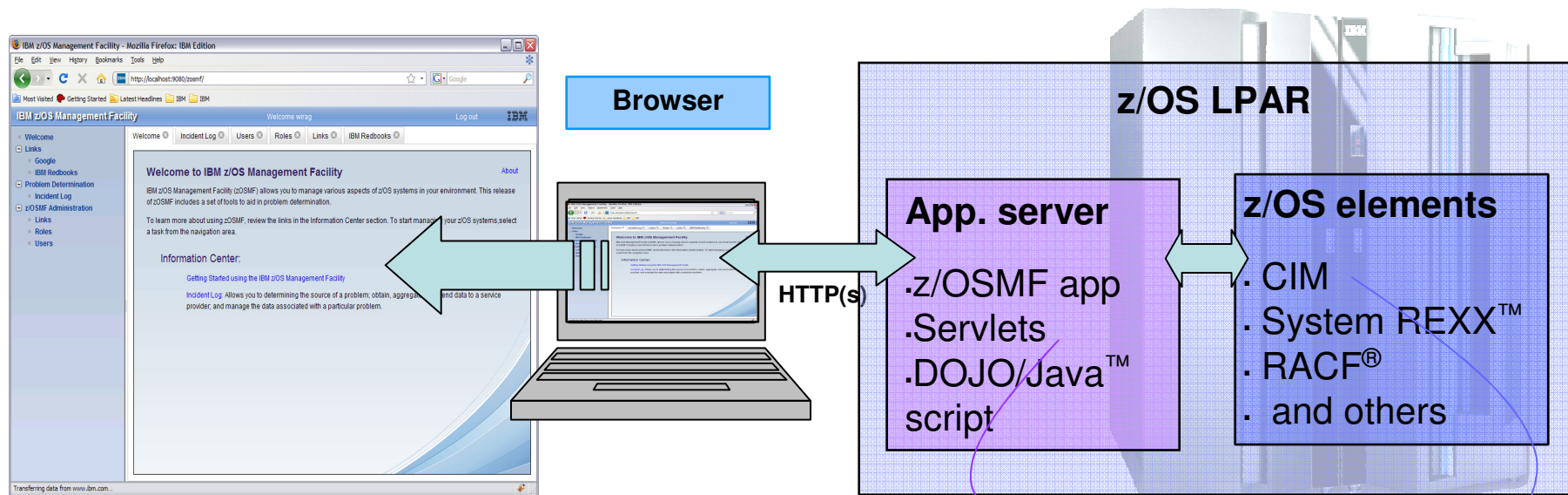


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IBM z/OS Management Facility

Industry standards



z/OS Management Facility is based on industry standards

- Java and Dojo - Dojo is an Open Source DHTML toolkit written in JavaScript. Dojo allows you to build dynamic capabilities into web pages and any other environment supporting JavaScript. Most of z/OSMF application is written in Java
- Parts of z/OS Management Facility, such as Incident Log (R11) and WLM Policy Editor (R12) use CIM

Java apps
and Java-
based CIM
client
eligible for
zAAP

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

Guest view

Login



A screenshot of the IBM z/OS Management Facility (z/OSMF) login page. The page has a blue header with the text 'IBM z/OS Management Facility' and 'Welcome guest'. On the left, there is a sidebar with a 'User ID' field, a 'Password or pass phrase' field, and a 'Log in' button. Below these are links for 'Welcome' and 'Links', including 'ShopzSeries', 'Support for z/OS', 'System z Redbooks', 'WSC Flashes', 'z/OS Basics Information Center', 'z/OS Home Page', and 'z/OS Internet Library'. The main content area has a 'Welcome' message and a 'Welcome to IBM z/OS Management Facility' section. The bottom of the page has a message: 'Unauthorized access to this system is prohibited' and the IBM logo.

- To log in you will need a z/OS user ID that has been defined and enabled for z/OSMF (and the WebSphere® runtime environment)
 - Guidance is provided.

IBM z/OS Management Facility – V1R12

Welcome page



.Configuration category

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

.Links category

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

.Performance category (R12)

- .**Workload Manager Policy Editor** application
 - . Facilitate the creation and editing of WLM service definitions, installation of WLM service definitions, and activation of WLM service policies
- .Resource Monitoring: **Sysplex status and Monitoring desktops** - provides integrated performance monitoring of z/OS sysplexes in the customer's environment

.Problem Determination category

- .**Incident Log** application
 - .The Incident Log provides a consolidated list of SVC Dump related problems, along with details and diagnostic data captured with each incident. It also facilitates sending the data for further diagnostics.

.z/OSMF Administration category

- . z/OSMF authorization services for administrator: add users, define roles, dynamically add links to non-z/OSMF resources.

Focus on Problem Determination



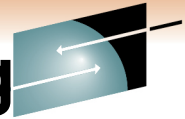
- **Pain Points**

- Need to troubleshoot a live system, recover from the failure.
- Need to reduce risk to the business, reduce risk of re-occurrence.
- Complexity of performing the task (number of steps, jargon).
- Data collection very time-consuming
- Significant skill level needed to analyze problems, interact with IBM and ISVs to obtain additional diagnostic info (setting SLIP traps, traces, etc.)

- **Focus on Problem Determination capability - Incident Log:**

- Troubleshoot your system easier, faster
- The incident log and underlying z/OS diagnostic data gathering greatly improves the tasks related to:
 - Identifying system-detected problems (related to SVC dumps taken by the system)
 - Collecting diagnostic materials related to a problem and sending materials to IBM or another company's support area
 - Tell the system to take the next dump for a previously-recognized problem

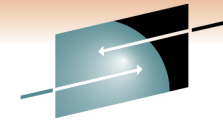
z/OSMF Problem Determination – Incident Log



Details

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- **Auto-capture basic diagnostic materials, triggered when the dump is written to a data set, managed via PARMLIB member**
 - **Initial focus is on Abend and user initiated SVC dumps**
 - Improved FFDC for system-detected problems
 - 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
 - Allow doc to be tersed and FTP'd to IBM (or ISV) without having to keep track of where logs are archived via easy to use interface
 - Simplify informing DAE to take the next dump for the incident's symptom string
- **Functions include:**
 - Display list of incidents (Filter/ sort/ configure/ delete)
 - Display properties – view list of diagnostic data, logs
 - Set properties: associate problem number and tracking id (R11), new fields and more customization capabilities (R12)
 - Send diagnostic data via FTP: Manage FTP jobs status and define FTP Profiles (firewall) (R11), support for encrypted and parallel FTP (R12)
 - Send additional user-defined diagnostic data (R12)
 - Enhance scope of diagnostic log snapshots created (R12)
 - Allow next dump



Incident Log – Summary Information

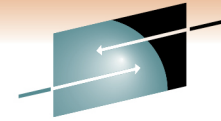
The screenshot shows the IBM z/OS Management Facility web interface in Mozilla Firefox. The browser address bar shows `https://mysystemz:32208/zosmf/`. The page title is "IBM z/OS Management Facility" and the user is logged in as "zmaadm".

The "Incident Log" section contains a table with the following columns: Incident Type, Description, Problem Number, Tracking ID, Notes, and a status column (R/F). The table lists several incidents, including those with tracking IDs XR-8265745, 12345,001,001, and DB: 5868, Ser: XR-125.

Annotations on the screenshot include:

- "Many fields, set tracking IDs" pointing to the Tracking ID column.
- "Select incident, get popup with actions" pointing to a row's incident type and description.
- A context menu is open over the selected row, listing actions: Set Tracking ID..., Set Problem Number..., Delete Incident..., Send Diagnostic Data..., View Diagnostic Details, FTP Job Status, and Allow Next Dump... (highlighted with a green arrow).
- "Add comments" pointing to the Notes column.

At the bottom of the table, it shows "Total: 8, Filtered: 8, Selected: 0" and a "Refresh" button. The last refresh time is "Jan 21, 2010 5:25:52 PM local time (Jan 21, 2010 11:25:52 PM GMT)".



Incident Log – Incident Details

IBM z/OS Management Facility Welcome zosmfad Log out IBM

Welcome Incident Log Sysplex Status Monitoring D... Workload Man...

Incident Log > View Diagnostic Details Help

View Diagnostic Details

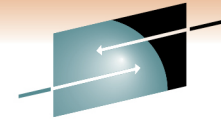
General Diagnostic Data

Incident type: ABEND
Incident description: ZTT ZTTABND ABEND FOR INCIDENT LOG 2,CAT=3061C000,JOB#=00000007
Date and time (GMT): Feb 24, 2011 3:54:51 PM
Sysplex name: SHARPLEX
System name: S1
Problem number: Identify the problem number as an IBM PMR and verify the syntax.
Tracking ID:
Component name:
Component ID:
z/OS release: V1R12
Product:
Abend code: S00C1
Reason code: 00000001
CSECT: UNKNOWN
Load module: UNKNOWN
Symptom string: PIDS/5752SCZTT RIDS/ZTTVDUMP RIDS/ZTTABND##L PRCS/00000BBE RIDS/ZTTSDUMP#R
FLDS/RC VALU/H00000000 VALU/H00000000 FLDS/SYS VALU/C
Notes:

OK Apply Cancel

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

Tab shows lists of data (logrec and error log)



Incident Log – Diagnostic Data

The screenshot shows the IBM z/OS Management Facility web interface in Mozilla Firefox. The browser address bar shows the URL `https://9.12.41.62:32208/zosmf/`. The page title is "IBM z/OS Management Facility" and the user is logged in as "debug13". The left sidebar contains a navigation menu with options like "Welcome", "Configuration", "Links", "ShopzSeries", "Support for z/OS", "System z Redbooks", "WSC Flashes", "Users", and "Refresh". The main content area is titled "Incident Log" and "View Diagnostic Details". It features a table with columns for "Data Type", "Source", "Sysplex", and "System". The table contains three rows of diagnostic data. Below the table, there is an "Attachments" section with a "New..." button and a table for adding attachments. A callout box on the left highlights the "View Diagnostic Details" option in the sidebar. A callout box on the right points to the "New..." button in the Attachments section, indicating where to attach user-defined diagnostic data.

Data Type	Source	Sysplex	System
<input type="checkbox"/> SVC dump	ZMFDUMP.DYNZOS12.P03.D100114.T153115.SV000	SVPLEX0	P03
<input type="checkbox"/> Error log	CEA.L00.C66360D8.A3D56F9E	SVPLEX0	P03
<input type="checkbox"/> Operations log	CEA.O00.C66360D8.A3D56F9E	SVPLEX0	P03

Total: 3, Selected: 0

Attachments

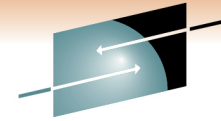
To send additional information that you think is relevant for this incident, such as a trace, use the **New...** action in the following table to specify the files to send. You can attach up to five additional files per send. The information about the attachments is discarded when you close the panel.

Data Type	Source
There is no data to display.	

Total: 0, Selected: 0

Send View Status

OK Apply Cancel



Incident Log – Send Diagnostic Data

IBM z/OS Management Facility - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://dceimgne.pdl.pok.ibm.com:32208/zosmf/

IBM z/OS Management Facility Welcome zmfusr1 Log out IBM

Welcome Incident Log

Incident Log > Send Diagnostic Data Help

Send Diagnostic Data

Welcome

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

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

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

Incident Type	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

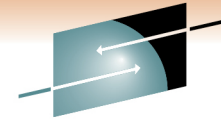
Data Type	Sysplex	System
SVC dump	CFCIMGNE	DCEIMGNE
Error log	CFCIMGNE	DCEIMGNE
Operations log	CFCIMGNE	DCEIMGNE
Error log summary	CFCIMGNE	DCEIMGNE

* 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



Incident Log – Delete Incident

The screenshot shows the IBM z/OS Management Facility web interface in Mozilla Firefox. The browser address bar shows the URL: <https://dceimgne.pdl.pok.ibm.com:32209/zosmf/>. The page title is "IBM z/OS Management Facility" and the user is logged in as "pegusr".

The "Incident Log" section displays a table of incidents. A "Confirm Delete" dialog box is overlaid on the table, asking for confirmation to delete the selected incident. The dialog box contains the following text:

IZUP835W
You are about to delete the selected incidents and all associated information. Do you want to continue?

Selected incidents
ABEND S0913 Feb 23 2009 12:37:10 PM COMPON=COMP

If DAE is suppressing this dump, no subsequent dump will be captured if the symptom recurs, nor will its occurrence be recorded in the incident log. To capture the next instance of the dump, select **Allow next dump**.

Allow next dump

OK Cancel

The table below shows the incident log data:

Incident Type	Description	Date and Time	Sysplex	System	Problem Number	Tracking ID	Release
User Initiated	ABEND=40D,RC=- UNRECOVERAB				41336,180,000		V1R1
ABEND S0913	COMPON=COMP TRACE,COMPID=				41336,180,000		V1R1
ABEND S0913	COMPON=COMP TRACE,COMPID=				12345		V1R1
User Initiated	REA				45678,057,649	3456789	V1R1
User Initiated	OIOIOI				41336,180,000	ar12345	V1R1
User Initiated	987				41336,180,000		V1R1
User Initiated	99				41336,180,000		V1R1
User Initiated	JKL				41336,180,000		V1R1
ABEND S00C4	COMPID=DF115,G /09,MAINTID= NO ,ABND=0C4,RC=0				41336,180,000	ar12345	V1R1
ABEND S00C4	COMPID=DF115,G /09,MAINTID= NO ,ABND=0C4,RC=0						V1R1
User Initiated	ABCD	Feb 18 2009 7:18:38 AM	CFCIMGNE	DCEIMGNE			V1R1
User Initiated	NEW DMP	Feb 17 2009 2:01:16 PM	CFCIMGNE	DCEIMGNE	41336,180,000		V1R1

Total: 12 , Filtered: 12 , Selected: 1
Refresh Last Refresh: Feb 27 2009 11:15:10 AM

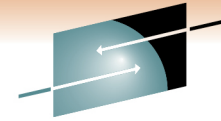
- Set Tracking ID...
- Set Problem Number...
- Delete Incident...**
- Send Diagnostic Data...
- View Diagnostic Details
- FTP Job Status
- Allow Next Dump...

z/OSMF Problem Determination – Incident log

Benefits



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



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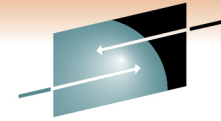
Focus on Configuration

- **Pain Points**

- Configuration task is highly fragmented
 - Multiple tools, limited integration between tools
- User interfaces not intuitive for new system programmers
- Syntax is complicated and error-prone
- Regression of dynamic changes not reflected in system control files
- Difficult to assess impact of configuration changes

- **Initial focus on Configuration Assistant for the z/OS Comm. Server**

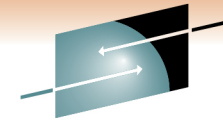
- A GUI for the z/OS Communications Server Policy Agent - simplifies the configuration and setup of the following TCP/IP policy-based networking functions:
 - Application Transparent TLS (AT-TLS)
 - IP Security (IPSec) including filters and VPNs
 - Network Security Server(NSS)
 - Intrusion Detection Services (IDS)
 - Policy-based Routing (PBR)
 - Quality of Service (QoS)



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Configuration Assistant for z/OS Comm. Server

- **A GUI for the z/OS Communications Server Policy Agent - simplifies the configuration and setup of TCP/IP policy-based networking functions.**
- **Available as a Microsoft® Windows® Web download** (since z/OS V1.7)
 - Still available as a Windows download, but strategy is to provide it only with z/OSMF
 - All functions available with Windows are also provided with z/OSMF
- **Available with z/OSMF** (starting with z/OSMF V1R11 and z/OS V1R11)
 - Configuration files can now be saved to local disk storage that is accessible to your z/OS system where the Configuration Assistant is running so FTP (from Windows) is not required
 - Can also import configuration text files in cases where users have already defined policies and would like to begin using the Configuration Assistant
 - Planned for z/OSMF R12:
 - Support the configuration of IKE version 2.
 - Support the configuration of new cryptographic algorithms for IPsec and IKE.
 - Support the configuration of FIPS 140 cryptographic mode for IKE.
 - Support the configuration of certificate trust chains and certificate revocation lists.



Configuration Assistant for z/OS Comm. Server

- Configuration Assistant for the z/OS Comm. Server is available on the z/OS Management Facility
 - All the same function as in the Web-download tool, but now on z/OS
 - No need to FTP network configuration files!
 - Requires z/OS V1.11 and later

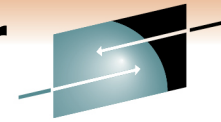
The screenshot shows the IBM z/OS Management Facility Configuration Assistant web interface in Mozilla Firefox. The browser title is "IBM z/OS Management Facility - Mozilla Firefox". The page content includes a navigation tree on the left, a main perspective area, and a table of z/OS Communication Server technologies. Three callout boxes provide instructions:

- Callout 1:** "Create configuration files for any number of z/OS images with any number of TCP/IP stacks per image." (Points to the navigation tree)
- Callout 2:** "Click on 'Action' and select 'Configure' to begin configuring that technology." (Points to the 'Select Action' dropdown menu)
- Callout 3:** "Select the TCP/IP stack that you want to configure and the technology, such as AT-TLS or IPsec." (Points to the 'Select' column in the technology table)

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

Configuration Assistant for z/OS Comm. Server

Support for IKEv2 (v1.12)



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- Support for FIPS 140
- Support for IKEv2
- Support for certificate revocation lists.

z/OSMF Configuration Assistant for z/OS CS

Benefits



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

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

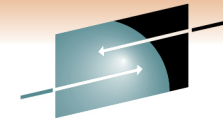
Focus on Configuration/ Performance

- **Pain Points**

- Work competes for resources, serialized by locks and latches
 - Low important work may hold a resource and high important work may have to wait for it
 - Incorrect WLM classification of system work can lead to serious system problems and even outages
- WLM Administrative Application provides little support to review and optimize service definitions
 - It is difficult to see the relationship of policy elements and to compare them
 - Recommendations and best-practices for the specification and optimization of service definitions are scattered over several manuals and have to be applied without tool support
 - User has to walk through drill-down and interim panels to create/change policy elements

- **Initial focus on WLM Policy Editor**

- Planned to be integrated into z/OSMF V1.12*
- Application which enables you to manage WLM service definitions
 - Integrates repository to store service definitions
 - Import and export of service definitions in XML format
 - Printing of service definitions
 - Creation, editing, reviewing of service definitions in tabular format
 - Direct navigation between policy elements during editing/viewing of service definitions
 - Best-practice checking for service definitions
 - Supports the installation of service definitions and the activation of service policies
 - Displays WLM status of systems in sysplex



z/OSMF Workload Management (V1.12)

- **WLM Policy Editor is available on the z/OS Management Facility**
 - All the same function as in the 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
- **Requires z/OSMF V1.12 and z/OS V1.12**

The screenshot shows the IBM z/OS Management Facility Workload Management interface. A table titled "Service Definitions" lists various services with columns for Name, Description, Activity Filter, System Filter, Messages, Last Modified (GMT), and Modified By. A context menu is open over the "TESTFC1" service, with the "Install and Activate..." option highlighted. A blue callout box at the top right says "Store all service definitions in one repository". Another blue callout box at the bottom right says "Click to view, edit, print, install a service definition" with an arrow pointing to the "Install and Activate..." menu item.

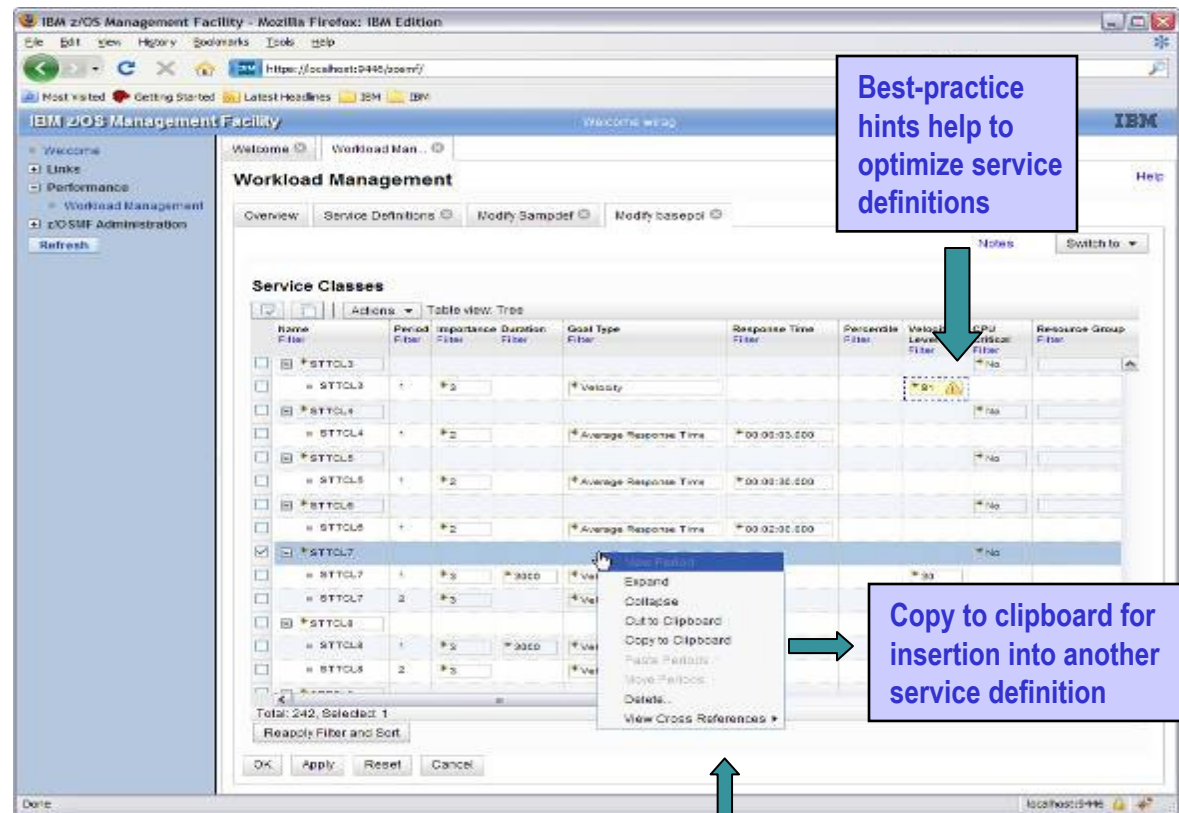
Name	Description	Activity Filter	System Filter	Messages	Last Modified (GMT)	Modified By
R12RGRP2	D10 WLM z/OSMF POLICY R12RGRP			Error	Feb 23 2010 3:30:24 PM	amnl
RTDST3	Copy of RTDST3				Mar 21 2007 8:23:16 PM	amnl
RTDST3	SDS1 copy 6			Warning	Jan 31 2010 10:49:38 PM	wilag
SampleP	Sample WLM Service Definition 62				Sep 24 2007 6:45:22 AM	ibatt
SampleP (Installed & Active)	Sample WLM Service Definition 67		WLMMPLEX	Information	Feb 1 2010 8:52:06 PM	wilag
SPM+Tst				Information	Jan 26 2010 3:50:48 PM	wilag
T13DEC07	addresswise SAP CG2s				Dec 13 2007 9:01:59 PM	ks6651
TEST15				Information	Jan 12 2010 12:42:29 PM	wilag
TESTFK1					Oct 2 2008 11:40:35 AM	4g011
TESTFC1				Error		
WLM_BDF1	Large			Error		
WLM_BDF2				Error		
WLM_DSSC	WLM De			Error		
WLM001	Service			Error		
WLM002				Information		
WLM730	policy			Warning	Jan 6 2010 11:56:50 AM	wilag
WLM001				Warning	Jan 13 2010 5:15:50 AM	wilag
WLMPOLE3				Warning	Feb 2 2010 12:05:54 AM	wilag
WLMPOLE4				Warning	Jul 8 2008 10:39:57 AM	amnl
WLMSTT	AVT R10-R1RA9			Error	Jan 27 2010 4:55:01 AM	p2snu
WSCALNDR	WSC Sample WLMServiceDefinition			Error		

z/OSMF Workload Management (V1.12)

Editing service definitions

- **Simplified creation, modification and review of service definitions**

- Policy elements are presented in tables
- Tables can be edited, filtered, and sorted
- Best-practice hints are displayed automatically
- Several service definitions can be opened simultaneously
- Cut, Copy, Paste of policy elements between service definitions

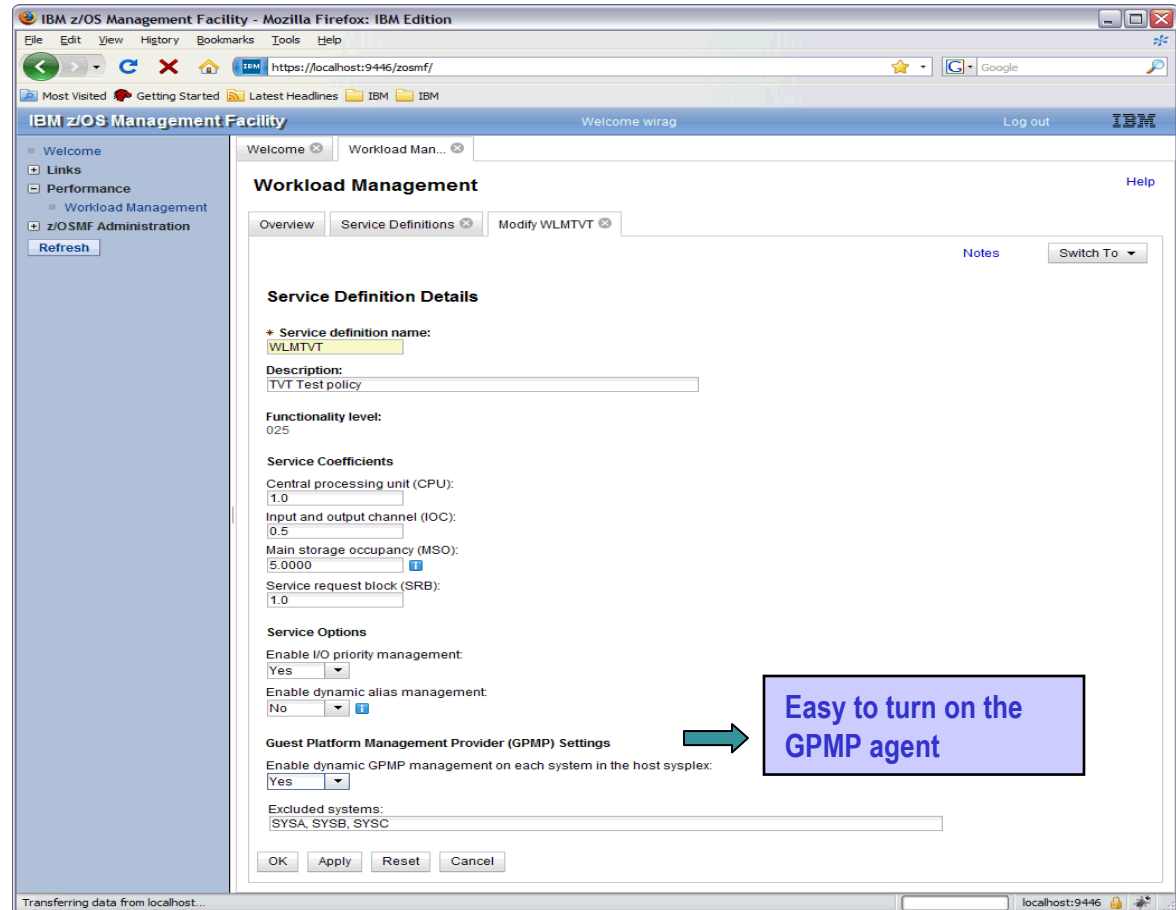


The screenshot shows the IBM z/OSMF Workload Management interface. The main area displays a table of Service Classes with columns for Name, Period, Importance, Duration, Goal Type, Response Time, Percentage, Velocity, CPU, and Resource Group. A context menu is open over a row, showing options like Expand, Collapse, Copy to Clipboard, and View Cross References. Three callout boxes highlight features: 'Best-practice hints help to optimize service definitions' (pointing to a warning icon), 'Copy to clipboard for insertion into another service definition' (pointing to the 'Copy to Clipboard' menu item), and 'Easy to check where the element is used' (pointing to the 'View Cross References' menu item).

z/OSMF Workload Management

Can send basic data to the zEnterprise server

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



z/OSMF Workload Management

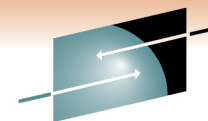
Summary



- **Simplified creation and editing of WLM service definitions**
 - The elements of a service definition are displayed in tabular form
 - Service definition elements are created or edited directly in tables
 - The creation and editing of WLM service definitions is supported by best practice checks
 - Direct navigation between policy elements during editing/viewing of service definitions
 - Serialization of the editing of the active service definition
- **Simplified handling via integrated repository for WLM service definitions**
 - WLM service definitions are stored in a repository integrated in the z/OSMF file system
 - WLM service definitions can be exported to the local workstation or a host data set as well as imported from a file on the local workstation or a host dataset
 - WLM service definitions can be printed using the print menu of the web browser
- **Installation of WLM service definitions and activation of WLM service policies**
- **Monitoring of the WLM status of a sysplex and the systems in a sysplex**
 - WLM status report is automatically updated if the WLM status on the systems changes
- **Allow opening multiple tabs to enable users to perform tasks simultaneously**
 - Simplified migration: Policy elements can be copied from one service definition to another
 - Simplified operation: A user can start to edit a service definition, interrupt the editing to activate a service policy, and then continue with the editing without losing the context

z/OSMF WLM Policy Editor (V1.12)

Benefits



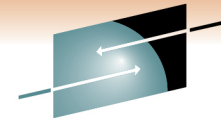
S H A R E

Technology Connections Results

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

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

Resource Monitoring features



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- The z/OSMF Resource Monitoring application provides integrated performance monitoring in the customer's environment
- Supports z/OS z/OS sysplexes and Linux® images (System z® and Intel®) in your installation
 - 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: *Monitoring Desktops and Sysplex Status*
 - **Monitoring Desktops task:**

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

Assess the performance of the workloads running on the z/OS sysplexes in your environment. The Sysplex 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.
- If you plan to use the tasks from the Resource Monitoring plug-in, it is recommended that you enable the optional priced feature, Resource Measurement Facility (RMF), on one of the systems in your enterprise. For information about enabling features, see z/OS Planning for Installation, GA22-7504.

z/OSMF Resource Monitoring (V1.12)

Benefits



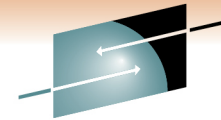
	Without z/OSMF Resource Monitoring (using RMF ISPF Monitor III Reporter)	With z/OSMF Resource Monitoring
Checking the performance status for several sysplexes	<p>You need a Monitor III Reporter session on each sysplex, and manually consolidate data from different reports. (Monitoring of Linux resources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

Resource Monitoring application - benefits

- Integrated monitoring from a single point of control
- Support for z/OS and Linux
- Quick assessment of the health (Sysplex Status task)
- Drill-down into resource attributes and metrics (Monitoring Desktop task)
- Predefined set of desktops for a quick start
- Flexibility through customizable user defined desktops
- Advanced filtering features for focused monitoring

Convenient, easy-to-use, flexible and customizable !

Resource Monitoring : Sysplex Status



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The screenshot shows the IBM z/OS Management Facility Sysplex Status page. The page title is "Sysplex Status" and it includes a "Help" link. Below the title is a brief description: "Use this panel to quickly assess the performance of the workloads running on the sysplexes in your installation. You can also use this panel to define the sysplexes and Linux images that you want to monitor in the Monitoring Desktops task." Below this is a table with the following columns: Resource, Connectivity, Performance Index Status, Related Service Definition, and Active WLM Policy. The table contains three rows of data:

Resource	Connectivity	Performance Index Status	Related Service Definition	Active WLM Policy
LOCALPLEX	Connected	PI ≤ 1 for all periods	RTDST3	RTDST
SCLM	Connected	PI > 1 for unimportant periods	Default	STANDARD
SYSF	Connected	PI > 1 for important periods	sysbst	POLICY01

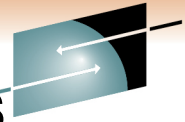
At the bottom of the table, it says "Total: 3". There are "Refresh" and "Automatic refresh" (checked) buttons. The page footer shows "Fertig" and system icons.

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



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

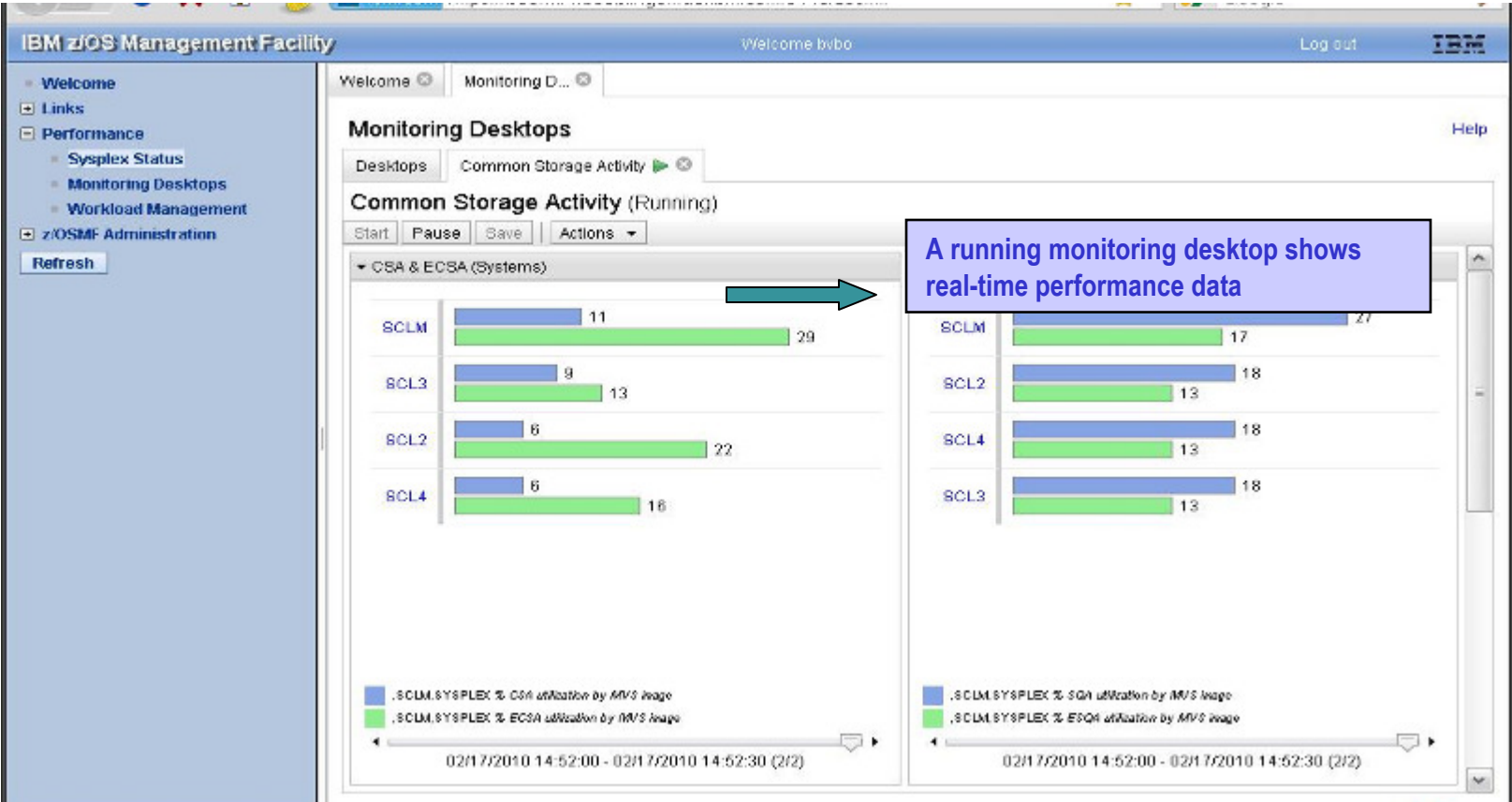
Resource Monitoring: Monitoring Desktops



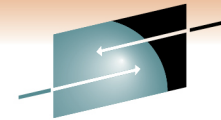
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The screenshot shows the IBM z/OSMF Monitoring Desktops interface. The left sidebar contains a navigation menu with categories like Welcome, Links, Performance, and z/OSMF Administration. The main content area is titled 'Monitoring Desktops' and features a list of desktops with radio buttons for selection. Annotations include a blue box with an arrow pointing to the 'Execution Velocity (Workloads & SCL Period)' radio button, stating 'Click to open the monitoring desktop.' Another blue box with a downward arrow points to the list, stating 'Pre-loaded with standard metrics. Can be customized, can add your own.' A third blue box at the bottom right explains that users can monitor metrics from the Resource Measurement Facility (RMF) Monitor III, create custom views, and display real-time performance data as bar charts.

Monitoring Desktops – example



Monitoring Desktops – add a metric



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Monitoring Desktops

Desktops | New Desktop | Add Metric

Add Metric

→ Add to metric group:

* Selected resource:

* Selected metric:

Resource | Metric | Filter | Work Scope

Available resources:

- LOCALPLEX,SYSPLEX
- SCLM,SYSPLEX
 - SCLM,MVS_IMAGE
 - SCL2,MVS_IMAGE
 - SCL3,MVS_IMAGE
 - SCL4,MVS_IMAGE
- CFD1,COUPLING_FACILITY
- DEAND,CPC
- SYSP,SYSPLEX
- SYSPLEX

Filter Pattern

Available resource names:

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

Resource name filter pattern:

Copy >>

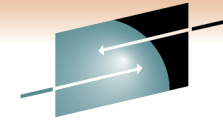
Sorting

Sort by:

Filters

Lower threshold: Upper threshold:

Add to Desktop | Cancel



Integrated z/OS and Linux Monitoring

The screenshot displays the IBM z/OS Management Facility interface in a Mozilla Firefox browser. The main content area is titled "Monitoring Desktops" and shows two active dashboards: "z/OS and Linux (Running)" and "Linux: Processor Utilization by Process".

z/OS: Processor Utilization by Job

Job Name	Utilization (%)
LNZSCLN [0054]	6.8
RMFGAT [0078]	1.2
LNZ [00B9]	1
NET [007E]	0.9
MLM [000C]	0.5
JES2 [002C]	0.5
FRS [0007]	0.5
XCFAS [0006]	0.4
SMSVSAM [000A]	0.2

Linux: Processor Utilization by Process

Process Name	Utilization (%)
java.5436	0.0333333
nscd.1094	0.0333333
kulagent.5270	0.0333333
events/0.8	0.0166667
events/1.9	0.0166667
crond.5785	0.0166667
avahi-daemon.5851	0.0166667
kzagent.1692	0.0166667
kjournald.204	0.0166667

Annotations on the screenshot:

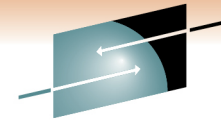
- A blue box on the left states: "Monitor z/OS and Linux for System z and Linux on Intel platforms with the help of a separate downloadable tool".
- A blue box at the top right points to the Linux dashboard with the text: "Processor Utilization of Linux Processes".
- A blue box at the bottom center points to the z/OS dashboard with the text: "Processor Utilization of z/OS Jobs".

Focus on z/OSMF Administration

- **z/OSMF Authorization – defining users and roles**
 - The z/OSMF administrator must authorize the user to z/OSMF and assign a role in order for the user to start working with z/OSMF tasks
 - The user must have a valid userid on the z/OS system
 - The security administrator must authorize the user to the required z/OS stack for the z/OSMF tasks
 - *Scripts are provided to perform the end-end authorization*
 - Plan to Introduce SAF mode in z/OSMF1.13* to have tighter integration with z/OS security management
 - Resource names associated with all z/OSMF tasks and links.
 - Resource class profiles control authorization to z/OSMF managed resources.
 - Use of SAF groups to represent z/OSMF roles
 - Users connected to SAF groups to be authorized
 - Option to stay with existing Repository mode or switch to SAF mode at any time

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

z/OSMF Administration: Authorizing a user



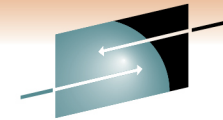
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The screenshot shows the IBM z/OS Management Facility web interface in Mozilla Firefox. The browser address bar shows the URL: `https://dceimgne.pdl.pok.ibm.com:32209/zosmf/`. The page title is "IBM z/OS Management Facility" and the user is logged in as "Welcome zmfadm1".

The main content area is titled "Users" and includes the instruction: "Use this panel to define new users and to modify or remove existing users." Below this is a table of users with a context menu open over the table.

Actions	Name	Role
Remove... Properties	z/OSMF Administrator & CIM User	z/OSMF Administrator
New...	z/OSMF User & CIM	z/OSMF User
Select All	WIII MC	z/OSMF User
Deselect All	zOSMF admin 1	z/OSMF Administrator
Hide Filter Row	zOSMF admin 2	z/OSMF Administrator
Clear Filters	zOSMF admin 3	z/OSMF Administrator
Modify Sort...	zOSMF user 1	z/OSMF User
Clear Sorts	zOSMF user 2	z/OSMF User
<input type="checkbox"/> zmfusr3	zOSMF user 3	z/OSMF User

At the bottom of the page, it shows "Total: 9 , Selected: 0" and a "Refresh" button with the text "Last Refresh: Feb 25 2009 10:10:50 AM".



z/OSMF Administration: Defining a role

The screenshot shows the IBM z/OS Management Facility interface in a Mozilla Firefox browser. The main content area is titled "Roles" and contains a table of roles. A blue box with the text "Select individual tasks and subtasks for each role." has a green arrow pointing to the "z/OSMF Administrator" role in the table. Another green arrow points from the table to a detailed view window titled "Properties for z/OSMF Administrator". This window shows a tree view of tasks and subtasks, with "Links" and "z/OSMF Administration" expanded. The "z/OSMF Administration" subtask is highlighted in blue.

Role	Description
Filter	Filter
<input type="checkbox"/> z/OSMF Administrator	User can perform all tasks defined within z/OSMF
<input type="checkbox"/> z/OSMF Authenticated Guest	User is logged into z/OSMF; however, no role is associated with this user
<input type="checkbox"/> z/OSMF Guest	User is not logged into z/OSMF
<input type="checkbox"/> z/OSMF User	User can perform any tasks that are not defined as z/OSMF administrator

Total: 4, Selected: 0

Refresh Last refresh: Jan 20, 2010 2:38:15 PM

Properties for z/OSMF Administrator

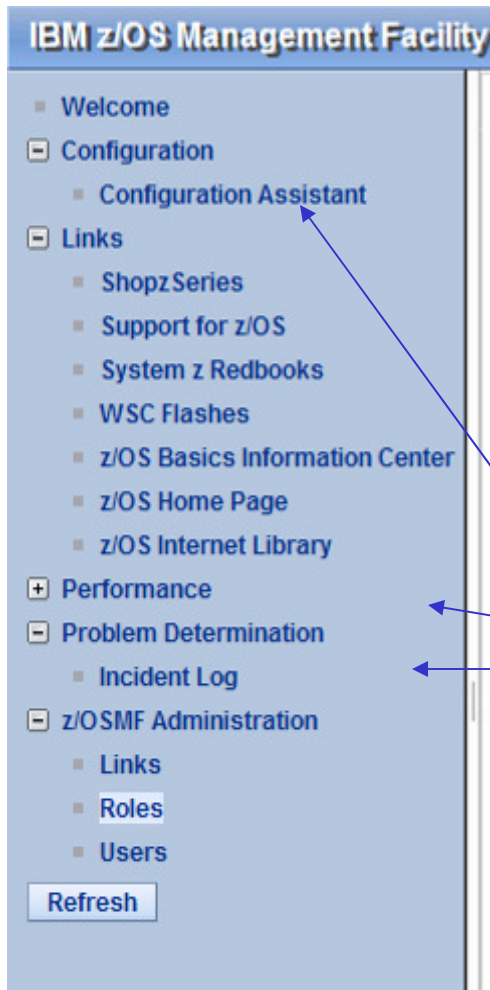
Role: z/OSMF Administrator

Description: User can perform all tasks defined within z/OSMF

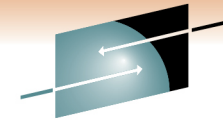
Tasks:

- Configuration
 - Configuration Assistant
- Links
- Performance
- Problem Determination
 - Incident Log
- z/OSMF Administration
 - Links
 - Log Management
 - Roles
 - UI Log Management
- Users

Focus on Links



- The Links category contains the pre-defined links provided by IBM as well as any new links added by the z/OSMF administrator
- Administrator can define which roles have access to each of the defined links.
 - The Links task in Administration category allows the administrator to dynamically add links to non-z/OSMF resources, e.g. ISV products, commonly used installation Web sites
- The IBM pre-defined links are accessible to all users, including guests, by default.
- Also, a new interface enables you to add non-z/OSMF launch points and links to any category on the left hand side navigation tree. (V1.12)



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z/OSMF Administration: Adding a link

IBM z/OS Management Facility - Mozilla Firefox
https://9.12.41.62:32208/zosmf/

Welcome debug13 Log out IBM

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

Links > New Link Help

New Link

Use this panel to define a new link for z/OSMF.

* Name (maximum 30 characters):

* URL (maximum 4096 characters):

* Category: Links

Roles authorized to use this link:

Role	Description
<input checked="" type="checkbox"/> z/OSMF Administrator	User can perform all tasks defined within z/OSMF
<input type="checkbox"/> z/OSMF User	User can perform any tasks that are not defined as z/OSMF administration tasks
<input type="checkbox"/> z/OSMF Authenticated Guest	User is logged into z/OSMF; however, no role is associated with the user's user ID
<input type="checkbox"/> z/OSMF Guest	User is not logged into z/OSMF

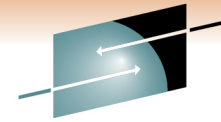
Need to share information with the team?
Need to go to another application?
Add a link!

Define the link

Where it goes (on the nav bar) planned for V1.12

Select who can see it

Done 9.12.41.62:32208

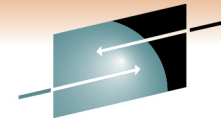


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Software Deployment (planned for z/OSMF V1.13)*

- **Software Deployment will make deployment of installed software simpler and safer**
 - Replaces manual and error prone procedures with a user friendly application, and
 - Codifies IBM recommended best practices for software deployment.
- **Software deployment key functions**
 - Verify cross system and cross product software requisites are satisfied.
 - Verify software fixes are not regressed.
 - Clone ALL parts of the software
 - Clone the inventory (SMP/E CSI) along with the software
- **Scope of software managed**
 - All SMP/E installed software
 - IBM and ISV software
 - z/OS operating system and related products
 - Subsystems and related products
 - Individual products
 - Service upgrades for all of the above (via complete replacement)

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

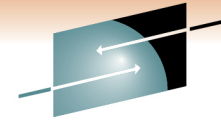


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DASD Management (planned for z/OSMF V1.13)*

- The first phase in simplifying SMS storage management focuses on the task of adding storage capacity to an SMS Pool storage group through a single user interface.
- Today, the storage administrator must determine when a storage group is near its capacity, identify how much storage to add, and what volumes to add. Once determined, multiple steps across various user interfaces are required to make the added capacity available to SMS:
 - ISMF to add volume entries to the storage group definition (update SCDS)
 - ICKDSF to initialize volumes
 - Operator command to vary volumes online
 - ISMF to activate the updated SCDS
- The z/OSMF DASD Management task is designed to help the storage administrator by streamlining the process of adding volumes to SMS pool storage groups, and is intended to allow you to perform storage group management tasks from within the application, reducing several manually intensive steps involving multiple applications to a single GUI.

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



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DASD Management (planned for z/OSMF V1.13)*

IBM z/OS Management Facility

Welcome zosmtad Log out

Welcome x DASD Management x

DASD Management > Storage Groups > Add Volumes Help

→ Welcome
Select Volumes
Generate Volume Names
Define Initialization Attributes
Initialize and Activate
Summary

Add Volumes
Complete this wizard to add one or more volumes to a storage group.

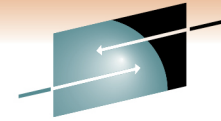
Welcome
Use this wizard to add volumes to a storage group. Adding volumes consists of the following steps:

- Select volumes to add to the storage group. You can use the volumes that the wizard suggests for you or specify volumes.
- Generates volume names using rules that you define.
- Define initialization attributes for the volumes (volume serial, SMS status and VTOC settings).
- Update and optionally activate the control data sets (ACDS and SCDS).
- Review a summary of the volumes you are adding.

Do not show the Welcome step in the future

< Back Next > Finish Cancel

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



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Capacity Provisioning (planned V1.13 for z/OSMF)*

- The Capacity Provisioning Control Center (CPCC) is the user front end to *administer* Capacity Provisioning policies
- Capacity Provisioning Control Center is available as a separate Windows-based stand-alone client.
- Part of the functionality is planned to be integrated into z/OSMF V1.13 which will ease the monitoring of CP status for different domains.
- The z/OSMF Capacity Provisioning task will simplify the work of a z/OS CP administrator and provides functionality to
 - manage connections to CPMs
 - view reports for domain status, active configuration and active policy.
- Capacity Provisioning is designed to simplify the management of temporary capacity. The scope of z/OS Capacity Provisioning is to address capacity requirements for relatively short term workload fluctuations for which On/Off Capacity on Demand is applicable. It is not a replacement for the Capacity Management process.

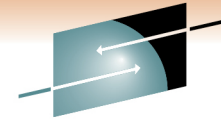
Application Linking (planned V1.13 for z/OSMF)*

- Objective
- Provide a more seamless experience for system programmers as they work with different tools and tasks on the z/OS system.
- This is accomplished by enabling Cross application linkage and context sensitive launching between z/OSMF applications and also between z/OSMF applications and external applications
 - Context sensitive launching or linking with z/OSMF applications may be within z/OSMF, for example, one task may want to launch to the other in context.
 - It can also be from external consoles or applications into z/OSMF, for example, from an ISV app to z/OSMF or vice versa.

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

Additional details on usage

- **z/OSMF V1R11 and R12 operating environment**
 - One instance of z/OSMF can manage only one local system or sysplex
 - Multiple users may log into the same instance of z/OSMF from different workstations/browsers
 - Expectation is to support up to 15 concurrent users
 - From one client system, user can manage additional sysplexes by opening new browser windows (or tabs) and logging into the z/OSMF instance installed on those sysplexes (one browser per system/sysplex).
 - Only one active instance of z/OSMF is supported within a sysplex at any point in time.
 - Additional instance may be created e.g for test or service update or backup, but it should not be actively managing the systems at the same time (e.g. working on the same incident concurrently from 2 separate instances of z/OSMF) or using the same data repository.



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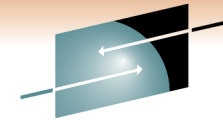
Migration & Coexistence Considerations

- **For z/OSMF V1.11 customers - In a mixed sysplex with some systems below z/OS V1R10:**
 - z/OSMF V1R11 must be installed and run on z/OS V1R10 or above
 - Incident Log: z/OS V1R9 system's SVC dumps will be reflected, but with some property values missing
- **Configuration Assistant is only supported on z/OSMF V1R11 and above, running on a z/OS V1R11 or later system.**
- **z/OSMF can coexist with other ISV products**
 - For example, all setup instructions are provided for RACF, but z/OSMF will operate with other security products with equivalent instructions

Migration & Coexistence Considerations



- **z/OSMF 1.12 requires z/OS 1.12**
- **Migration:**
 - If you have a z/OSMF 1.11 system and want to migrate to z/OSMF 1.12 on a z/OS 1.12 system, there is script support for doing that.
 - Requires that z/OSMF 1.11 be at the PTF UK52956/APAR PK97274 level prior to migration
 - Use **izumigrate.sh**, to migrate the R11 configuration file to the R12 format, see the z/OSMF Configuration Guide
 - Run the setup steps via **izusetup.sh** to enable the R12 level of applications
 - After that you can use the `-add` option to add the new applications added in z/OSMF 1.12
- **Coexistence applies to lower-level systems which coexist (share resources) with latest z/OS systems.**
 - If you require the capability to fall back from z/OS Management Facility V1.12.0 to a lower level system (z/OS Management Facility V1.11.0 on a z/OS 1.10 or later system), and retain the use of the data repository from z/OS Management Facility V1.12.0, you require **APAR PM09519** on the system with z/OS Management Facility V1.11.0
 - Also require CEA APAR on the lower level z/OS systems V1R10 and V1R11) **OA32285**
 - If this is **not** installed, under certain circumstances, some datasets will not be deleted when the rest of the incident is deleted.



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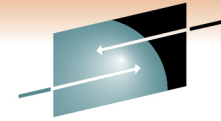
Prerequisites

- **z/OSMF V1R11**
 - **Requires z/OS z/OS V1R10 w/maint., or z/OS V1.11**
 - z/OSMF V1.11 also supported on z/OS V1R12 (but upgrade to z/OSMF V1R12 recommended)
 - The Configuration Assistant for z/OS Communications Server portion of z/OS Management Facility requires z/OS V1.11 or later.
 - **Browser**
 - Windows XP® operating system
 - Mozilla Firefox 3.0.6 (recommended)
 - Mozilla Firefox 2
 - Internet Explorer® 7
 - Internet Explorer 6

- **z/OSMF V1R12**
 - **Requires z/OS R12**
 - **Browser**
 - Windows XP, Windows Vista, and Windows 7
 - Mozilla Firefox 3.0
 - Mozilla Firefox 3.5 (recommended)
 - Internet Explorer® 7
 - Internet Explorer 8

Environment Option	Settings as of 2009-02-16T14:30:09.515Z	Requirement or Recommendation
Javascript	JavaScript Error: JavaScript Disabled or browser does not support javascript.	Enable Javascript.
Cookies	JavaScript Error: Unable to determine setting.	Enable Cookies. At a minimum, enable cookies for z/OSMF server site.
Popups	JavaScript Error: Unable to determine setting.	For serviceability, remove Popup Blockers. At a minimum, allow popups from
IFrames	JavaScript Disabled.	
Screen Resolution	JavaScript Error: Unable to determine setting.	
Browser Window Size	JavaScript Error: Unable to determine setting.	
Browser Name and Version Browser User-Agent value	JavaScript Error: Unable to determine setting.	
Addons	JavaScript Error: Unable to determine setting.	
Plugins	JavaScript Error: Unable to determine setting.	
z/OSMF Login	guest	

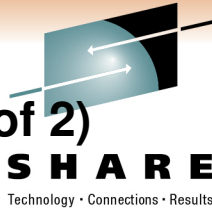
Browser checker available. Your browser connects to the z/OS Management Facility and checks the browser settings



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Summary

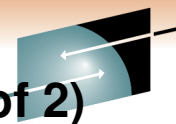
- **The IBM z/OS Management Facility is a new product for z/OS customers that provides support for a modern, Web-browser based management console for z/OS.**
- **z/OSMF delivers solutions in a task oriented user interface. The initial functions in z/OSMF 1.11 include:**
 - **Configuration Assistant for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



Summary – z/OSMF V1.12 Enhancements (1 of 2)

- **z/OSMF Incident Log:**
 - Encrypt incident files
 - Break dumps into multiple data sets that can be sent via FTP in parallel
 - Specify additional data sets to send to a vendor
 - Add free-form comments to incidents and FTP destinations in new sortable fields
 - Create of diagnostic log snapshots based on SYSLOG and LOGREC data sets
 - In addition to OPERLOG and LOGREC log streams
 - All intended to help you manage problem data more easily
- **z/OSMF Configuration Assistant for z/OS Communications Server planned to support configuration for**
 - IKEv2
 - Certificate trust chains and certificate revocation lists
 - New cryptographic algorithms for IPSec and IKE.
 - FIPS 140 cryptographic mode for IPSec and IKE
 - ...and Enforce RFC4301 compliance for IPSec filter rules

Summary – z/OSMF V1.12 Enhancements (2 of 2)



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

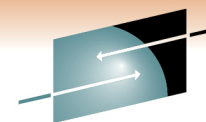


Summary – z/OSMF V1.13 highlights

- A new software deployment capability to simplify cloning and software deployment tasks
- Storage management support to define new storage volumes
- A new Capacity Provisioning Manager application is designed to support easier monitoring of z/OS Capacity Provisioning Manager (CPM) status

Additional information

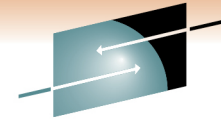
- **z/OS Management Facility website**
 - <http://ibm.com/systems/z/os/zos/zosmf/>
- **IBM z/OS Management Facility education modules in IBM Education Assistant**
 - <http://publib.boulder.ibm.com/infocenter/ieduasst/stgv1r0/index.jsp>
 - Scroll down to z/OS Management Facility
- **z/OS Hot Topics, Issue 21 and 23:**
 - http://ibm.com/systems/z/os/zos/bkserv/hot_topics.html
- **Program Directory for z/OS Management Facility** GI11-2886
- **IBM z/OS Management Facility User's Guide** SA38-0652
- **IBM WebSphere Application Server OEM Edition for z/OS Configuration Guide, Version 7.0** GA32-0631
- **IBM z/OS Management Facility License Information** GC52-1263



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z/OSMF Sessions in Anaheim

Session Number	Day	Time	Room	Session Title
8696	Tues Mar 1	11:00 am	201B	z/OS Problem Determination Update: z/OSMF Incident Log, Runtime Diagnostics, PFA,
9061	Tues Mar 1	1:30 pm	201B	Understanding WebSphere App Server OEM Edition for z/OSMF Sysprogs
8922	Tue, Mar 1	3:00 pm	201D	z/OSMF 1.12 Overview
8658	Tues Mar 1	4:30 pm	201D	z/OSMF Implementation and Configuration
9071	Tues Mar 1	6:00 pm	201B	Roundtable: Shaping the Future of Mainframe Professionals Discussion
8699	Wed, Mar 2	6:00 pm	207	z/OSMF Roundtable
9070	Wed, Mar 2	6:00 pm	201B	You Talk We Listen: How Today's User Experience is Improving on Tomorrow
9039	Thurs Mar 3	8:00 am	201B	z/OS Software Deployment
8757	Thurs Mar 3	11:00 am	201D	z/OSMF User Experience
9075	Thurs Mar 3	4:30 pm	208B	z/OSMF Hands on Lab
8859	Fri Mar4	11:00 am	202A	Managing your workload with z/OSMF



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Notes:

Performance is in Internal Throughput Rate (ITR) ratio based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput that any user will experience will vary depending upon considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve throughput improvements equivalent to the performance ratios stated here.

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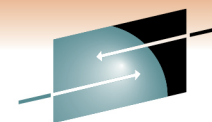
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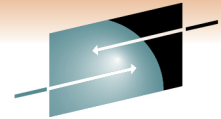
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BACKUP



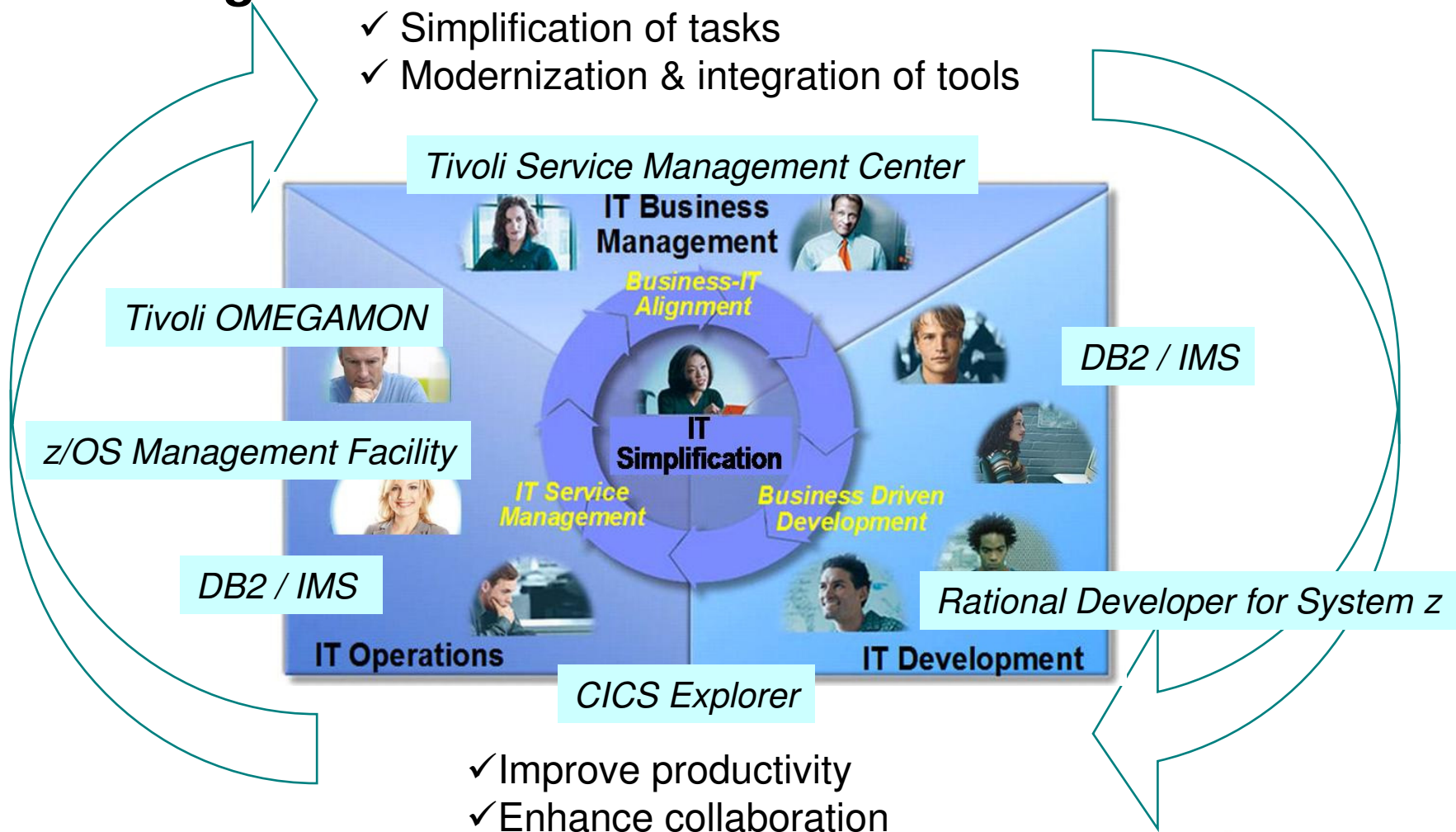
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Focus Areas for Simplification

<p>System Determination and Analysis</p> <ul style="list-style-type: none"> Run Time Diagnostics Predictive Failure Analysis z/OSMF Auto-IPL Auto Reply CA Reclaim 	<p>Configuration</p> <ul style="list-style-type: none"> Capacity Provisioning z/OSMF IBM Health Checker CF Sizer
<p>Simplify and modernize the Programmer User Experience</p> <p>Deliver solutions in a task-oriented browser user interface with integrated user assistance</p>	
<p>Education</p> <p>Finding the information needed to use z/OS</p>	
<p>Installation</p> <ul style="list-style-type: none"> ShopzSeries acquisition Electronic Delivery Migration Health Checks Programmatic Processing of Fix Categories SMP/E Internet Service Retrieval 	

Smart technologies from IBM can deliver simplification across organizational domains

- ✓ Simplification of tasks
- ✓ Modernization & integration of tools



- ✓ Improve productivity
- ✓ Enhance collaboration

z/OSMF packaging

z/OSMF V1R11 is comprised of:

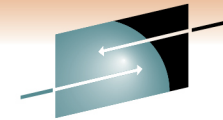
- PID# 5655-S28
- S/S PID# 5655-S29
- FMID# HSMA110
- *FMID# HBBN700 (IBM WebSphere Application Server OEM Edition for z/OS v7.0)*
 - COMPID 5655I3512 - WEBS APP SVR OEM
- HSMA110 FMID Description: IBM z/OS Management Facility
 - COMPID 5655S28SM – z/OSMF Core
 - COMPID 5655S2805 – z/OSMF Incident Log
 - COMPID 5655S28CA –Config Assist

z/OSMF V1.12 product

The IBM z/OS Management Facility is a separate licensed program product

- z/OS Management Facility (5655-S28)
- z/OS Management Facility Subscription and Support (5655-S29)

FMID	COMPID	Component Name	RETAIN Release
HSMA120	5655S28SM	z/OSMF Core	120
HSMA122	5655S2802	z/OSMF RMF	122
HSMA123	5655S2803	z/OSMF WLM	123
HSMA125	5655S2805	z/OSMF Incident Log	125
HSMA12A	5655S28CA	CONFIG ASSIST	12A
HBBN700	5655I3512	WEBS APP SRV OEM	700



Incident log - Destinations

IBM z/OS Management Facility - Mozilla Firefox
https://9.12.41.62:32208/zosmf/

IBM z/OS Management Facility Welcome debug13 Log out IBM

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

Incident Log > FTP Destinations Help

FTP Destinations

System Filter	Path Name Filter	Description Filter	Transfer Method Filter	Associated Profile Filter	Anony Filter
<input type="checkbox"/> testcase.boulder.ibm.com	/toibm/mvs		FTP		Yes
<input type="checkbox"/> testcase.boulder.ibm.com	/toibm/tivoli		FTP		Yes
<input type="checkbox"/> ftp.ecurep.ibm.com	/toibm/mvs		FTP		Yes
<input type="checkbox"/> ftp.ecurep.ibm.com	/toibm/tivoli		FTP		Yes
<input type="checkbox"/> 9.12.41.63	/tmp		FTP		No

Total: 5, Selected: 0
Refresh Last refresh: Jan 20, 2010 11:56:57 AM local time (Jan 20, 2010 4:56:57 PM GMT)

Done 9.12.41.62:32208

Send Diagnostic Data

- Welcome
- Select FTP Destination**
- Specify User Settings
- Select FTP Profile
- Define Job Settings
- Review FTP Information

Pre-loaded with IBM destinations, or add your own

Configuration Assistant for z/OS Comm. Server

Simplified AT-TLS Dialog (z/OS V1.11)



- **Simplified AT-TLS dialog**
 - Define AT-TLS from the application level
 - Added a list of well-known applications with predefined rules
 - Simple “click” to enable
 - Rules can be modified or copied and modified
- AT-TLS supports new SSL and TLS (TLS V1.1) settings. (R11)

The screenshot shows the IBM z/OS Management Facility web interface in Mozilla Firefox. The main window displays the 'AT-TLS Perspective' with a navigation tree on the left and a configuration area on the right. The configuration area includes a 'Connectivity Rules' section with a table of rules and a 'Modify Rule' dialog box.

AT-TLS Perspective

Navigation tree:

- AT-TLS
 - Reusable Objects
 - Traffic Descriptors
 - Security Levels
 - Address Groups
 - Requirement Maps
 - z/OS Images
 - Incomplete Image - MVS
 - Stack - TCPCS
 - Stack - TCPCS2

Connectivity Rules

TCP/IP stack Information:

Enter the name of the TCP/IP stack: *TCPCS

Enter a description: Primary stack on mvs098

Enable the rule you would like to have in your AT-TLS policy.

To enable a rule, select a row and from the action menu, select Enable Rule.

Select	Status	Rule Name	Application / Requirement Map	Key Ring
<input type="checkbox"/>	Disabled	Default_CICS	CICS	tlsKeyring
<input type="checkbox"/>	Disabled	Default_CSSMTP	CSSMTP	tlsKeyring
<input checked="" type="checkbox"/>	Enabled	Default_FTP-Client	FTP-Client	tlsKeyring
<input checked="" type="checkbox"/>	Enabled	Default_FTP-Server	FTP-Server	tlsKeyring
<input type="checkbox"/>	Disabled	Default_LBA-Advisor	LBA-Advisor	tlsKeyring

Modify Rule

AT-TLS rule name: Default_FTP-Client

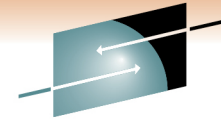
Traffic: Select the security level that will protect this traffic descriptor

Security levels:

- Default_Cipher - IBM supplied 3DES, AES-256 bit, AES-128 bit encryption
- AT-TLS_Bonus - IBM supplied No encryption
- AT-TLS_Gold - IBM supplied 3DES or AES-128 bit encryption
- All - IBM supplied IBM supplied: AES 256 bit encryption
- AT-TLS_Silver - IBM supplied 3DES, AES-128 bit, or DES encryption
- Default_Cipher - IBM supplied 3DES, AES-256 bit, AES-128 bit encryption
- Default_IRM supplied: Traffic is allowed with no security

Configuration Assistant for the z/OS Comm. Server

New Predefined Default AT-TLS Rules (R12)



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- **NEW! Predefined, default AT-TLS rules** for key IBM middleware and function, such as:
 - JES
 - DB2
 - IMS
 - NSS
- Helpful when TLS security is required!
- Can be modified if needed, as easy as open, cut, copy, paste!

The screenshot shows the IBM z/OS Management Facility Configuration Assistant interface. The navigation tree on the left highlights the 'AT-TLS' configuration path. The main area displays the 'AT-TLS Perspective' for 'Stack - STACKA', which is currently 'Stack Disabled'. A text box prompts the user to 'Enter the name of the TCP/IP stack:' with 'STACKA' entered. Below this, a table lists predefined rules for various applications.

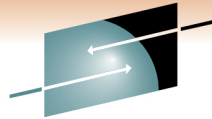
Status	Rule Name	Application / Requirement Map	Key Ring
Disabled	Default_DB2-Requester	DB2-Requester	tlsKeyring
Disabled	Default_DB2-Server	DB2-Server	tlsKeyring
Disabled	Default_IMS-Connect	IMS-Connect	tlsKeyring
Disabled	Default_JES-Client	JES-Client	tlsKeyring
Disabled	Default_JES-Server	JES-Server	tlsKeyring

➤ New easy config for :

- JES
- DB2
- IMS
- NSS

Configuration Assistant for z/OS Comm. Server

Simplified IPSec



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- **Simplified IPSec Requirement Map (V1R11)**

- Simplified panel to show more clearly that a requirement map was a Traffic Descriptor and a Security Level
- New “advanced wizard” to allow for easier panel navigation

- **Support for more cryptographic algorithms (for V1.12)**

IBM z/OS Management Facility Welcome user1 Log out

Welcome Configuration...

Tutorials Help

New Requirement Map

A requirement map is an object that maps each IP traffic type (traffic descriptor) to a specific level of security (security level).

To add a new mapping to the requirement map:

1. Click Add Row in the action menu or use an existing row.
2. Select a traffic descriptor from the list
3. Select a security level from the list

*Name: ProtectFTP

Description:

Mappings table

Select	Traffic Descriptor	Security Level
<input type="radio"/>	FTP-Client	Select a security level
<input type="radio"/>	Select a traffic descriptor	Select a security level
<input type="radio"/>	All_other_traffic	Select a security level

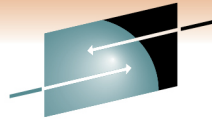
Traffic Descriptors... Security Levels...

OK Cancel

Internet 100%

Configuration Assistant for z/OS Comm. Server

Application setup tasks (V1.11)



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- “Application Setup” task guides users in the creation of configuration files and started procedures
- Provides step-by-step for each policy perspective to deploy the applications required for that function
- There are both image-level and stack-level setup tasks.

IBM z/OS Management Facility Welcome user1

Welcome x Configuratio... x

Application Setup Tasks for Image MVS1

This panel contains tasks to enable Application Transparent - Transport Layer Security for z/OS image MVS1.

Steps: - Select the task and click **Task Details** from the Actions menu.
- Follow the instructions on the panel.
- As you finish each task, change its status to **Complete**.

List of setup tasks

--- Select Action ---

Select	Task name	Last completion date ^	Status ^	Comment
<input type="radio"/>	Installation Location Setup		Incomplete	
<input type="radio"/>	Policy Agent - RACF Directives		Incomplete	
<input type="radio"/>	Policy Agent - RACF Directives for Policy D		Incomplete	
<input type="radio"/>	Syslogd - RACF Directives		Incomplete	
<input type="radio"/>	Policy Agent Configuration - Image MVS1		Incomplete	
<input type="radio"/>	Syslogd - Configuration		Incomplete	
<input type="radio"/>	Syslogd - Start Procedure		Incomplete	
<input type="radio"/>	Policy Agent - TCPIP Sample Profile		Incomplete	
<input type="radio"/>	AT-TLS - TCPIP Sample Profile		Incomplete	

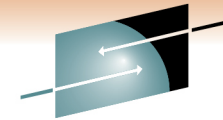
Configuration Assistant for z/OS Comm. Server

Application setup tasks – setting the base location for definition files (V1.11)



- Base locations specify a z/OS UNIX® file directory or a PDS(E) library for storing the policy-related definitions that are created by the Configuration Assistant.
- There are both image-level and stack-level base locations.
- This example uses a PDS library.

The screenshot shows the IBM z/OS Management Facility Configuration Assistant interface. The left pane contains a navigation tree with 'Configuration Assistant' selected. The main pane displays the 'Installation Location Setup' configuration page. The 'Base location' is set to '/etc/cfgasstv1r13/MVS1/'. The 'Host code page' is set to 'IBM-1047'. Under 'Select installation method', 'Save to disk' is selected. The 'FTP login information' section includes fields for 'Host name', 'Port number' (set to 21), 'User ID', and 'Password', with a 'Use SSL' checkbox. The 'Data transfer mode' section has 'Default' selected.



z/OSMF Workload Management (V1R12)

Service Definition History

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

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

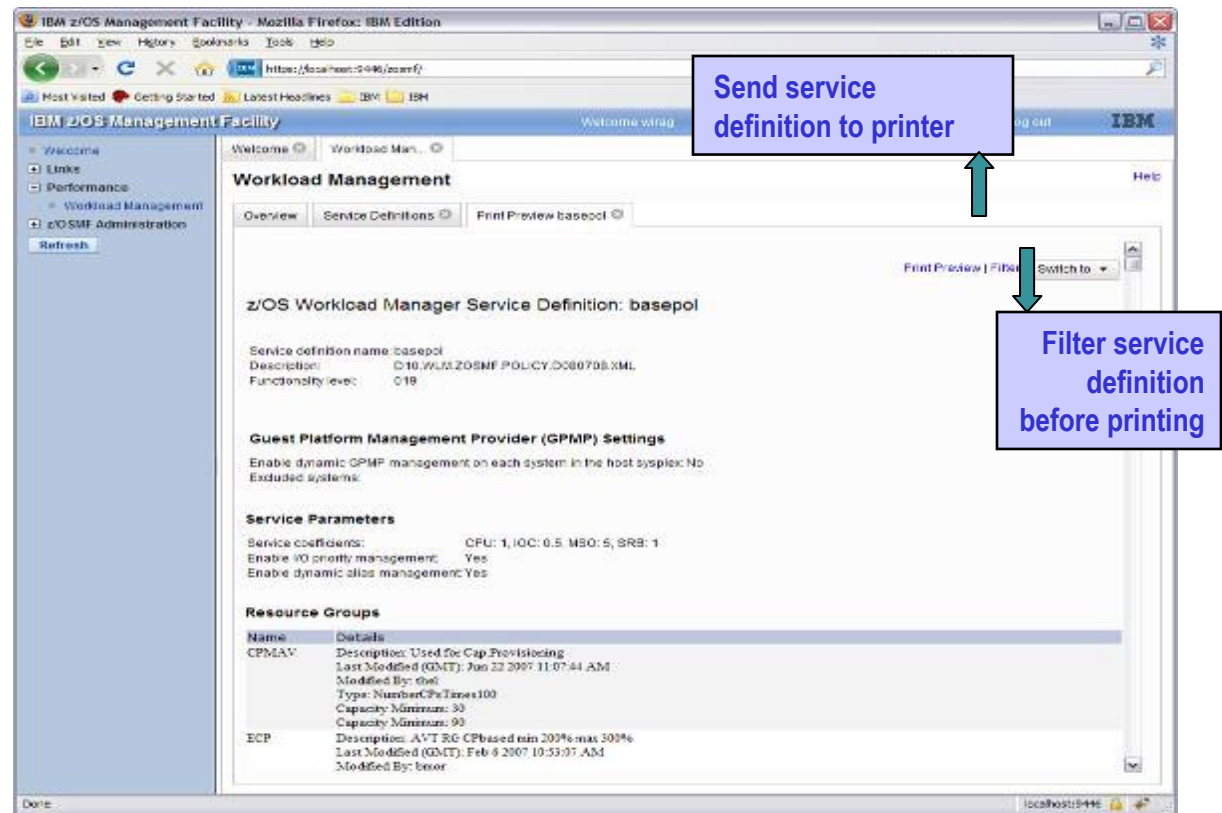
Actions	Sysplex	Action	Date and Time (GMT)	User ID
Filter	Filter	Filter	Filter	Filter
	RMF4PLEX	Activate service policy WLMSTTAV	Apr 23, 2010 10:57:36 AM	bwir
	RMF4PLEX	Install in WLM couple data set	Apr 23, 2010 1:17:48 PM	bwir
	RMF4PLEX	Activate service policy WASRT	Apr 23, 2010 1:17:49 PM	bwir
	RMF4PLEX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

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

z/OSMF Workload Management (V1R12)

Printing Service Definitions

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



Send service definition to printer

Filter service definition before printing

IBM z/OSMF Workload Management - Mozilla Firefox: IBM Edition

Workload Management

Overview | Service Definitions | Print Preview basepol

z/OS Workload Manager Service Definition: basepol

Service definition name: basepol
Description: C:\0\WLM\ZOSMF\POLICY\0080708.XML
Functionality level: 018

Guest Platform Management Provider (GPMP) Settings

Enable dynamic GPMP management on each system in the host system: No
Excluded systems:

Service Parameters

Service coefficients: CPU: 1, I/O: 0.5, M/S: 5, S/R: 1
Enable I/O priority management: Yes
Enable dynamic class management: Yes

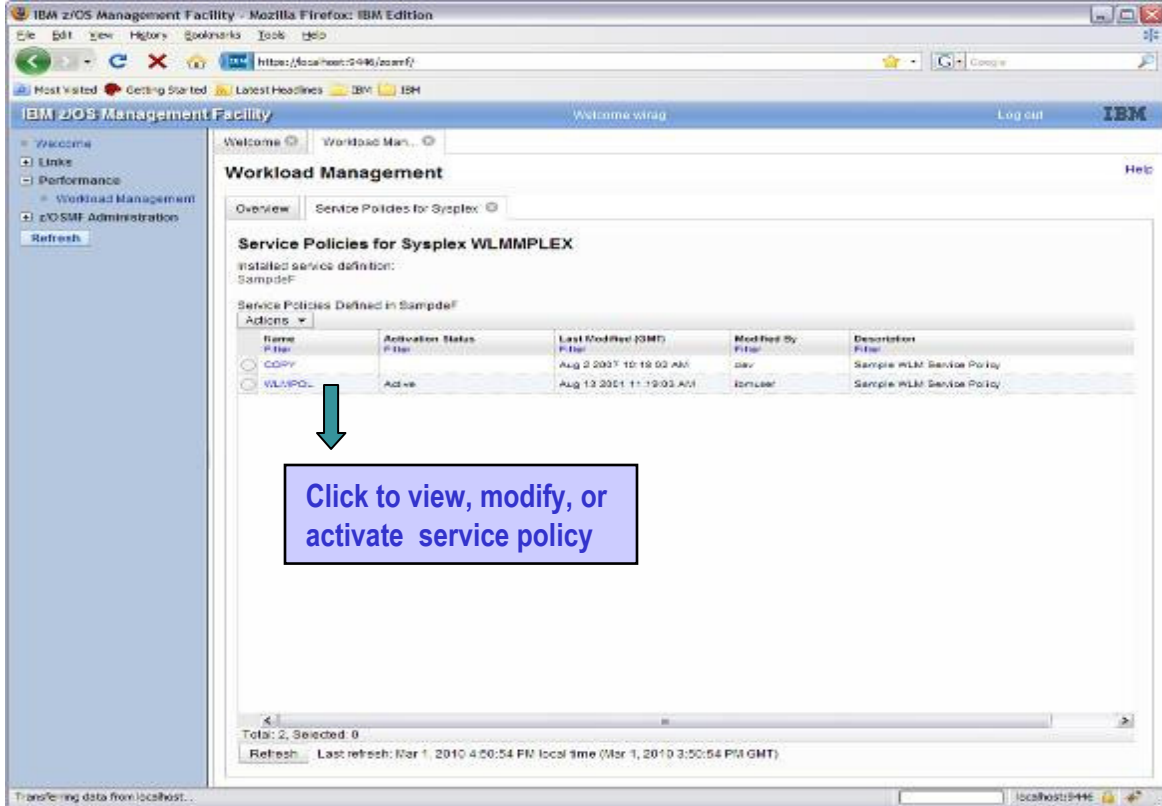
Resource Groups

Name	Details
CPMAV	Description: Used for Cap Provisioning Last Modified (GMT): Jun 22 2007 11:07:44 AM Modified By: dsa Type: NumberCpsTimes100 Capacity Minimum: 30 Capacity Maximum: 90
ECP	Description: AVT RG CPbased min 200% max 300% Last Modified (GMT): Feb 6 2007 10:53:07 AM Modified By: btor

z/OSMF Workload Management (V1R12)

Manage Service Policies

- The Manage Service Policies panel displays the state of the service policies in the installed service definition
 - View or print the service policies of the installed service definition
 - Activate a service policy of the installed service definition



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

IBM z/OSMF Management Facility

Welcome wing Log out IBM

Workload Management

Overview Service Policies for Sysplex

Service Policies for Sysplex WLMMPLEX

Installed service definition: SampleF

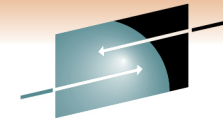
Service Policies Defined in SampleF

Name Filter	Activation Status Filter	Last Modified (GMT) Filter	Modified By Filter	Description Filter
<input type="radio"/> COPY		Aug 2 2007 10:19:02 AM	dar	Sample WLM Service Policy
<input checked="" type="radio"/> WLNPO...	Active	Aug 13 2011 11:19:03 AM	ibmuser	Sample WLM Service Policy

Click to view, modify, or activate service policy

Total: 2, Selected: 0

Refresh Last refresh: Mar 1, 2010 4:50:54 PM local time (Mar 1, 2010 3:50:54 PM GMT)



z/OSMF Workload Management (V1R12)

View Sysplex Status

- The View Sysplex Status task displays

- The active service policy
- The WLM status on the systems in the sysplex
- The installed service definition
- The Sysplex Status panel comprises the information provided by the MVS console command D WLM SYSTEMS

Workload Management

Overview | Status for Sysplex

Status for Sysplex WLMMPLEX from System WLM

Active Service Policy

Name: WLMPOL
 Description: Workload manager of the z/OS operating system
 Activated: Mar 1 2010 11:08:09 AM GMT
 Activated by: bwr from system WLM
 Related Service Definition: Sampdef
 Functionality level: 21
 Installed: Feb 28 2010 11:45:09 PM GMT
 Installed by: bwr from system WLM

Systems

Name	Used Service Policy	Activated (GMT)	WLM Status	QSP Status	WES Version Level	CDS Format Level	Connected CF 3
WLM	WLMPOL	Mar 1 2010 11:08:09 AM	Active	Inactive	25	3	

Total: 1

Installed Service Definition

Name: Sampdef
 Description: Sample WLM Service Definition 57
 Installed: Feb 28 2010 11:45:09 PM GMT
 Installed by: bwr from system WLM

Refresh Automatic refresh Last refresh: Mar 1, 2010 5:01:29 PM local time (Mar 1, 2010 4:01:29 PM GMT)

Check checkbox to automatically refresh data