

IBM z/OS Management Facility V2.1 enables you to optimize productivity and simplify management tasks

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At a glance

IBM® z/OS® Management Facility (z/OSMF) V2.1 (5610-A01) offers management and system administration simplification to help you manage your z/OS environment. It is a foundation for continued z/OS system simplification enhancements and provides streamlined processes to address many daily management activities. It helps create a more seamless z/OS management experience, helps drive repeatable processes and can improve productivity for system administrators and system programmers. Its browser-based interface is well-suited for those accustomed to graphical user interfaces, and can help speed productivity both for new and for existing z/OS users. It is ideally suited for organizations who want to simplify z/OS management, who are facing skills shortages, or who want to ensure more consistent and repeatable management processes to improve quality. Enhancements for z/OSMF V2.1 include both a broad set of functional capabilities, task-oriented applications, and a new design expected to reduce resource requirements.

Specific highlights of z/OSMF V2.1 include functions intended to:

- Reduce resource requirements with use of the Liberty profile in IBM WebSphere® Application Server for z/OS, V8.5 in z/OSMF V2.1
- Help you manage software service levels with new reporting and display capabilities designed to show you, at a glance, the currency of installed system software
- Support a new workflow application infrastructure to help with simplification of configuration
- Help you manage On/Off Capacity on Demand in a more intuitive way
- Expand the facilities for job submission and notification available within the z/OS Jobs REST Interface
- Help you navigate more seamlessly between applications, and support the use of additional browsers

Overview

z/OSMF V2.1 features enhancements to simplify the user experience and reduce error-prone aspects of systems administration. New capabilities are designed to help you achieve more standardized management processes, automate repeatable tasks, improve launch-in-context capabilities, and improve process quality. A new software management application provides reporting and display capabilities to show end-of-service dates for software inventory and fix status for SMP/E-installed products. Also, a new workflow application infrastructure can help organizations further automate the sequencing of management tasks, improving the efficiency

of management. In addition, z/OSMF is designed to incur reduced resource requirements by using the Liberty profile from WebSphere Application Server for z/OS , V8.5. New enhancements include:

- z/OSMF is designed to use the Liberty profile in IBM WebSphere Application Server for z/OS, V8.5. This is expected to reduce resource requirements.
- A new software management application provides reporting and display capabilities to show end-of-service dates for software inventory and fix status for SMP/E-installed products.
- Also, a new workflow application infrastructure can help organizations further automate the sequencing of management tasks to specific roles, improving the quality and efficiency of management.
- Extended RESTful interfaces for the z/OSMF Jobs REST API are intended to help bridge batch-based and web-based applications, creating a more modern environment.
- The z/OSMF Resource Monitoring application links to the WLM application in context, and the WLM application links to the Resource Monitoring application for easier navigation.
- An updated z/OSMF-based IBM Configuration Assistant for Communications Server offers a more seamless look and feel within z/OSMF and is expected to help reduce server-side CPU consumption.
- IBM intends to provide additional simplification enhancements for z/OSMF V2.1. Subsequent enhancements are planned to be delivered as small programming enhancements (SPEs). See the Statements of direction section for examples.

IBM z/OS Management Facility (5610-A01) can be acquired together with z/OS (5650-ZOS).

Key prerequisites

• z/OS V2.1 (5650-ZOS)

Planned availability date

September 30, 2013

Description

A number of enhancements are provided for z/OS V2.1 with z/OSMF V2.1:

- z/OSMF is designed to use the Liberty profile in IBM WebSphere Application Server for z/OS, V8.5. This is expected to provide significant reductions in the CPU and memory resource requirements for z/OSMF.
- The Software Management application is extended to help you manage your SMP/E-installed software for the z/OS platform. This new function is designed to provide a number of new reporting and display capabilities you can use. Among them are one intended to cross-check SMP/E inventory information with catalog entries, volume residency, and data set content; another to retrieve and display end of service information about installed products; another to provide a number of reporting functions to help with service level (PTF) management, and one to display the location and content of software instances created using the Software Management task. These new functions are designed to help you manage your system software more easily, and are also available on z/OS V1.13 with the PTF for APAR PM73833.
- A new z/OSMF Workflow Application is designed to allow exploiters to provide configuration assistance for functional setup tasks to simplify z/OS configuration. This application is designed to route tasks among a number of defined people assigned to specific roles, such as system programmer and security administrator, to complete setup tasks. z/OSMF setup is planned to use this

- capability in the future. For more information, see the Statements of direction section.
- z/OSMF V2.1 running on z/OS V2.1 is updated to provide a number of functions that are provided by z/OS components, with updates to the Workload Management, Resource Monitoring, and Capacity Provisioning applications.
- The z/OSMF Resource Monitoring application links to the WLM application in context, and the WLM application links to the Resource Monitoring application. This function is also available with z/OS V1.13 and z/OSMF V1.13 with the PTFs for APARs PM74517 and PM74508. The System Status task links to WLM for list entries that represent a z/OS system, such as linking to service definitions and active WLM policies, and the WLM application links to the System Status task. This is intended to simplify performance monitoring and management.
- In z/OSMF V2.1, enhancements for the capacity provisioning application are designed to replace the Microsoft™ Windows™ based Capacity Provisioning Control Center (CPCC), which is removed in z/OS V2.1. This function is also available with z/OS V1.13 and z/OSMF V1.13 with the PTF for APAR PM74519. In addition, the z/OSMF V2.1 Capacity Provisioning application is enhanced to enable you to create, edit, and install domain configurations and policies. Existing reports are extended to support IFL and SAP processors in addition to CP, zIIP, and zAAP processors. These new functions are intended to improve the usability of Capacity Provisioning within z/OSMF and support all the functions available in the Microsoft Windows-based Capacity Provisioning Control Center (CPCC).
- z/OS V2.1 Communications Server with z/OSMF V2.1 provides a redesigned version of the IBM Configuration Assistant for z/OS Communications Server that replaces the Microsoft Windows based version. It helps reduce CPU consumption, supports configuration of additional policy-based networking functions, and is more consistent with the look and feel of other z/OSMF functions.
- In z/OS V2.1 with z/OSMF V2.1, the z/OS Jobs REST Interface is extended to
 add support for submitting jobs from data sets and z/OS UNIX[™] files, optional
 asynchronous notification upon job completion, passing JCL symbols to a
 job being submitted, and an optional job correlator that is unique across the
 JES2 spool. These extensions are intended to make it easier to extend z/OS
 batch services to distributed environments, reuse existing JCL, and detect job
 completion.
- A number of plug-ins are available to add significant function to the core functions of z/OSMF:
 - The Capacity Provisioning plug-in is designed to query the status of the Capacity Provisioning Manager.
 - The Configuration Assistant plug-in is designed to configure TCP/IP policybased networking functions.
 - The Incident Log plug-in helps you manage system diagnostics and send diagnostic data to IBM or other vendors for further analysis.
 - The ISPF plug-in accesses traditional ISPF applications for improved access to data and to help you improve productivity.
 - The Resource Monitoring plug-in monitors the performance of the z/OS , AIX® , Linux $^{\text{\tiny TM}}$, and Windows systems in your enterprise and helps to assess workload performance of systems in your enterprise.
 - The Software Deployment plug-in helps manage your z/OS software inventory, deploys SMP/E packaged software, and generates reports about your software.
 - The Workload Management plug-in administers and operates WLM, and helps with management of WLM service definitions and policies.
- z/OSMF V2.1 is designed to provide new browser and operating system support for:
 - Firefox ESR 17 on the 32-bit version of the Microsoft Windows XP operating system, and for both 32-bit and 64-bit versions of the Windows 7 operating system
 - Both 32-bit and 64-bit Microsoft Internet Explorer 8 and 9 browsers on the 64bit version of Microsoft Windows 7 operating system
 - The 32-bit Microsoft Internet Explorer 8 and Internet Explorer 9 browsers on the 32-bit version of Microsoft Windows 7 operating system

 The 32-bit Microsoft Internet Explorer 8 on Microsoft Windows XP operating system

Notes:

- As described in Software Announcement 213-292, dated July 23, 2013, z/OS V2.1, Library Server is designed to provide an integrated message and codes lookup facility, similar to the "LookAt" function. In z/OS V2.1 with z/OSMF V2.1, z/OSMF messages are planned to be supported by a specialized messages plugin to be used by Library Server to find and display explanatory text. This facility is also designed so that additional explanatory text can be displayed when additional plug-ins are provided for additional products.
- The z/OSMF V1.13 level of the ISPF task under z/OS Classic Interfaces is not supported on z/OS V2.1. However, this function is available with z/OSMF V2.1 on z/OS V2.1.

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

http://www.ibm.com/able/product_accessibility/index.html

Section 508 of the US Rehabilitation Act

IBM z/OS Management Facility V2.1 is capable as of September 30, 2013, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A US Section 508 Voluntary Product Accessibility Template (VPAT) can be requested at

http://www-03.ibm.com/able/product_accessibility/index.html

Value Unit-based pricing

Value Unit pricing for eligible IBM System z® IBM International Program License Agreement (IPLA) programs enables a lower cost of incremental growth and enterprise aggregation. Each System z IPLA product with Value Unit pricing has a single price per Value Unit and a conversion matrix, called Value Unit Exhibit, for converting from some designated measurement to Value Units. Most commonly, Millions of Service Units (MSUs) is the measurement designated by IBM to be converted to Value Units. Some other measurements are engines or messages. Since MSUs are the most common measurement, that measurement will be used for the remainder of this description.

Value Unit pricing offers price benefits for you. For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the *required license capacity*. Each of the various Value Unit Exhibits stipulate that the larger your required license capacity, the fewer Value Units per MSU you will need. Value Unit Exhibits are uniquely identified by a three-digit code and referred to using the nomenclature VUExxx, where xxx is the three-digit code.

Subsequent acquisitions of Value Unit priced programs offer additional price benefits. The quantity of each System z IPLA program that you have acquired is referred to as *entitled license capacity* . If you wish to grow your entitled license capacity for a System z IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each System z IPLA program with Value Unit pricing, you should:

- Determine the required license capacity, in MSUs
- Aggregate the MSUs across the enterprise
- Convert the total MSUs to Value Units, using the applicable Value Unit Exhibit

 Multiply the price per Value Unit by the total number of Value Units to determine the total cost

To simplify conversion from the designated measurement to Value Units or viceversa, use the Value Unit Converter Tool. For additional information or to obtain a copy of the Value Unit Converter Tool, visit the Value Unit Converter Tool website

http://ibm.com/zseries/swprice/vuctool

Note that Value Units of a given product cannot be exchanged, interchanged, or aggregated with Value Units of another product.

To determine the required license capacity for the System z IPLA program you selected, refer to the Terms and conditions section.

Product positioning

System z simplification strategy has been an ongoing effort to deliver operational simplification and productivity to the System z platform. For z/OS , z/OSMF is designed to help new system programmers and administrators more easily perform key tasks like configuration, software management, and workload management. In addition, active user assistance and wizards can guide administrators and operators through these tasks, potentially reducing the time needed for these tasks from hours down to minutes.

In particular, the z/OSMF V2.1 enhancements help simplify the user experience and reduce many error-prone aspects of systems administration. New z/OSMF capabilities are designed to help you achieve more standardized management processes, automate repeatable tasks, and improve process quality. They provide ease of navigation, improved browser support, and guided tasks.

z/OSMF, with its intuitive user interface, can help new or existing system programmers and administrators become productive more quickly, and help reduce the time it takes to perform a number of common system programming and administration tasks. In addition, it can help provide structure and repeatable processes that reduce opportunities for error and improve productivity. These functions span a number of areas ranging from network administration, system software management, workload management and capacity management, and others. The benefits of z/OSMF can benefit many roles in the organization such as system programmers, administrators, operators, and more.

z/OSMF V2.1, with its use of the Liberty profile, is expected to consume much less CPU resource than prior releases of z/OSMF, making it suitable for use on smaller systems, such as system programmer test systems. The recommended minimum host system size has been reduced for z/OSMF V2.1 by more than 50%, to an LPAR with 45 MIPS. This recommendation is based on internal IBM Laboratory tests; your results may vary.

IBM Explorer for z/OS , V2.1 (z/OS Explorer), is an Eclipse-based integration platform for z/OS system application users that enables the integration of a variety of offerings from IBM , vendors, or in-house development plug-ins. The z/OS Explorer is extendable with the IBM repository of compatible products to fulfill each user's roles and responsibilities. For example, z/OS Explorer can provide a single Eclipse environment with the ability to administer IBM CICS® , IBM DB2® , IBM WebSphere MQ, and IBM IMS $^{\text{\tiny IM}}$ subsystems, or a different Eclipse environment targeted at development and problem determination of z/OS applications. For more information, visit

http://ibm.com/systems/Z/os/zos/explorer

Also, refer to Software Announcement 213-141, dated April 23, 2013.

Statements of direction

IBM intends to add z/OSMF function to support presentation services for other applications. A new set of programming interfaces is designed to allow TSO/E-based applications to be imported into z/OSMF and supported within the z/OSMF user interface, while providing the capability to exploit graphical user interfaces supported by the client browsers.

IBM intends to provide additional REST programming interfaces in z/OSMF V2.1. These new RESTful interfaces are designed to provide access to z/OS data sets and files, with authorization control and serialization. This new function is intended to make it much easier to access data stored on z/OS from other platforms, such as from distributed servers or browser-based applications.

IBM intends to provide support for secure FTP (SFTP) in the Incident Log application in z/OSMF V2.1.

IBM intends to use the z/OSMF Workflow function to provide simplified instructions for installation of z/OSMF plug-ins.

IBM's statements regarding its plans, directions, and intent are subject to change or withdrawal without notice at IBM's sole discretion. Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.

Program number

Program Program number VRM name

5610-A01 2.1 IBM z/OS Management Facility

Product identification number

Subscription and

Program PID number Support PID number

5610-A01 5655-S29

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM , you may link directly to Business Partner information for this announcement. A PartnerWorld® ID and password are required (use IBM ID).

https://www.ibm.com/partnerworld/mem/sla.jsp?num=213-308

Education support

IBM training provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM training website

http://www.ibm.com/services/learning/

Call IBM training at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

Offering Information

Product information is available via the Offering Information website

http://www.ibm.com/common/ssi

Publications

The following publications are supplied automatically with the basic machinereadable material:

Title Order number

IBM z/OS GI11-9847

Management Facility

Program Directory

The following additional product publications are available upon general availability:

 IBM z/OS Management Facility Configuration Guide (SA38-0657) and IBM z/OS Management Facility Programming (SA32-1066), which can be found at

http://www.ibm.com/systems/z/os/zos/zosmf/

The IBM Publications Center

http://www.ibm.com/shop/publications/order

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the US) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

Technical information

Specified operating environment

Hardware requirements

z/OS Management Facility V2.1 runs on these IBM System z servers:

- IBM zEnterpriseTM EC12 (zEC12)
- IBM zEnterprise BC12 (zBC12)
- IBM zEnterprise 196 (z196)
- IBM zEnterprise 114 (z114)
- IBM System z10® (z10TM EC, z10 BC)¹
- IBM System z9® (z9® BC, z9 EC)¹

This product is withdrawn from marketing.

Software requirements

• z/OS V2.1 (5650-ZOS)

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM , such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Planning information

Security, auditability, and control

z/OS Management Facility V2.1 uses the security and auditability features of the z/OS V2.1 operating system.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

http://www.ibm.com/software/sw-services/

Ordering information

Ordering z/OS through the Internet

ShopzSeries provides an easy way to plan and order your z/OS ServerPac or CBPDO. It will analyze your current installation, determine the correct product migration, and present your new configuration based on z/OS. Additional products can also be added to your order (including determination of whether all product requisites are satisfied). ShopzSeries is available in the US and several countries in Europe. In countries where ShopzSeries is not available yet, contact your IBM representative (or IBM Business Partner) to handle your order via the traditional IBM ordering process. For more details and availability, visit the ShopzSeries website at

http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp

Charge metric

Part number or PID number Charge metric Z/OS Management 5610-A01 Per Value Unit Facility V2.1

The programs in this announcement all have Value Unit-Based pricing.

Program

number Program name Value Unit exhibit

5610-A01 z/OS Management VUE007

Facility V2.1

For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the required license capacity . Your required license capacity is based upon the following factors:

- The System z IPLA program you select
- The applicable Value Unit Exhibit
- The applicable terms
- Whether your current mainframes are full capacity or sub-capacity

Basic license

Translation from MSUs to Value Units

		MSUS	Value	Units/MSL
Base		1-3	x.xx	
Tier	Α	4-45	x.xx	
Tier	В	46-175	x.xx	
Tier	C	176-315	x.xx	
Tier	D	316+	x.xx	

To order, specify the program product number and the appropriate license or charge option. Also, specify the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

Program name: z/OS Management Facility V2.1

Program PID: 5610-A01

Entitlement License option/identifier Description Pricing metric

S0171SL z/OS Management Facility Basic OTC, per Value Unit

Orderable supply ID Language Distribution medium

S0171SK English 3590 media

Subscription and Support PID: 5655-S29

Entitlement License option/identifier Description Pricing metric

S014P48 z/OS Management Basic ASC, SW S&S per Value Unit

Facility S&S No charge, decline SW S&S

Orderable supply ID Language Distribution medium

S014P2D English Hardcopy pub

Subscription and Support

To receive voice technical support via telephone and future releases and versions at no additional charge, Subscription and Support must be ordered. The capacity of Subscription and Support (Value Units) must be the same as the capacity ordered for the product licenses.

To order, specify the Subscription and Support program number (PID) referenced above and the appropriate license or charge option.

IBM is also providing Subscription and Support for these products via a separately purchased offering under the terms of the IBM International Agreement for Acquisition of Software Maintenance. This offering:

- Includes and extends the support services provided in the base support to include technical support via telephone.
- Entitles you to future releases and versions, at no additional charge. Note that you are not entitled to new products.

When Subscription and Support is ordered, the charges will automatically renew annually unless cancelled by you.

The combined effect of the IPLA license and the Agreement for Acquisition of Software Maintenance gives you rights and support services comparable to those under the traditional ICA S/390® and System z license or its equivalent. To ensure that you continue to enjoy the level of support you are used to in the ICA business model, you must order both the license for the program and the support for the selected programs at the same Value Unit quantities.

Single version charging

To elect single version charging, you must notify and identify to IBM the prior program and replacement program, and the machine the programs are operating on.

Customized Offerings

Product deliverables are shipped only via CBPDO and ServerPac. These customized offerings are offered for Internet delivery in countries where ShopzSeries product ordering is available. Internet delivery reduces software delivery time and allows you to install software without the need to handle tapes. For more details on Internet delivery, refer to the Shopz help information at

http://www.software.ibm.com/ShopzSeries

You choose the delivery method when you order the software. IBM recommends Internet delivery. In addition to Internet and DVD, the supported tape delivery options include:

- 3590
- 3592

Most products can be ordered in ServerPac the month following their availability in CBPDO. z/OS can be ordered via CBPDO and ServerPac at general availability. Many products will also be orderable in a Product ServerPac without also having to order the z/OS operating system or subsystem.

Shopz and CFSW will determine the eligibility based on product requisite checking. For more details on the Product ServerPac, visit the Help section on the Shopz website at

http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp

Production of software product orders will begin on the planned general availability date.

- CBPDO shipments will begin one week after general availability.
- ServerPac shipments will begin two weeks after general availability.

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage® Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

License Information form number

GC52-1386-00

The program's License Information will be available for review on the IBM Software License Agreement website

http://www.ibm.com/software/sla/sladb.nsf

Limited warranty applies

No

Money-back quarantee

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Volume orders (IVO)

No

Passport Advantage applies

No

Usage restrictions

Yes

Software Subscription and Support applies

No. For operating system software, the revised IBM Operational Support Services - SoftwareXcel offering will provide support for those operating systems and associated products that are not available with the Software Subscription and Support (Software Maintenance) offering.

This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised offering, visit

http://www.ibm.com/services/sl/products

System i® Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Yes. A 15% education allowance applies to qualified education institution customers.

Statement of good security practices

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

Prices

For additional information and current prices, contact your local IBM representative.

Information on charges is available at

http://www.ibm.com/support

Choose the option entitled Purchase/upgrade tools.

Program name: z/OS Management Facility V2.1

Program PID: 5610-A01

Entitlement License option/ identifier Description Pricing metric

S0171SL z/OS Management Facility Basic OTC, per Value Unit

Subscription and Support PID: 5655-S29

License option/ Entitlement identifier Pricing metric Description

S014P48 Basic ASC, SW S&S per Value Unit z/OS Management

Facility S&S No charge, decline SW S&S

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http://www.ibm.com/legal/us/en/

For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the IBM worldwide contacts page

http://www.ibm.com/planetwide/us/

Corrections

(Corrected on August 2, 2013)

The Publications section was revised.