



IBM Management Suites deliver new features to monitor, automate, and control resources on IBM z Systems

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At a glance

IBM^(R) Service Management Suite for z/OS^(R), V1.3.0 provides automation, network management, performance and availability management, and asset discovery for critical business workloads running on IBM z SystemsTM. It includes the following new or enhanced components in addition to IBM Tivoli^(R) OMEGAMON^(R) Performance Management Suite for z/OS enhancements:

- **IBM Service Management Suite V1.1**
- **IBM Tivoli NetView^(R) for z/OS V6.2.1**

IBM Tivoli OMEGAMON Performance Management Suite for z/OS, V5.3.1 helps manage performance and availability of IBM z/OS operating system, middleware, mainframe networks, and z/OS storage. This release improves functions related to IBM IMSTM, IBM DB2^(R), networks, integration, and analytics. Included in the suite:

- **IBM Tivoli OMEGAMON XE for IMS on z/OS, V5.3.0**
- **IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.3.0**
- **IBM Tivoli OMEGAMON XE for Mainframe Networks V5.3.0**
- **IBM Tivoli OMEGAMON Dashboard Edition on z/OS, V5.3.0 (Interim Feature)**

IBM Tivoli OMEGAMON for z/OS Management Suite V5.3.1 provides real-time and historical performance, and availability management capabilities for z/OS operating systems, networks, and storage subsystems with new improvements in network management, reporting, and integration.

Service Management Suite also contains Tivoli OMEGAMON Performance Management Suite. A subset of the products in Tivoli OMEGAMON Performance Management Suite is also available in Tivoli OMEGAMON for z/OS Management Suite. Organizations with active licenses for any of the component products of a suite may upgrade to the suite that contains them.

Order now

For ordering, contact your IBM representative or an IBM Business Partner. For more information, contact the Americas Call Centers at: 800-IBM-CALL (426-2255).

Overview

Organizations are looking to modernize and optimize their systems that run in the IBM z/OS environment and to integrate them with mobile, cloud, and analytics platforms. Enhancements to three IBM Management Suites for z/OS, including new and updated component products, support these initiatives, helping organizations to become mobile ready and prepared for the increased demands of modern workloads.

IBM Service Management Suite for z/OS, V1.3.0

Updates

IBM Service Management Unite V1.1 is a new customizable service management dashboard that is available only with Service Management Suite. Service Management Unite gives system programmers, operators, and administrators a transparent view of the status of the health of the system and includes problem identification, contextualized problem isolation, and service restoration from a single interface.

Service Management Unite ships with predefined dashboards that integrate monitoring and automation to manage application workloads more effectively. Users can see, at a glance, the health of the environment and drill down with only a few clicks from an alert to the underlying problem and determine the impact of failures. The modern technology foundation in Service Management Unite enables customizable user experiences, so you can leverage your homegrown tools seamlessly and easily.

The initial release focuses on system health and problem identification, problem isolation, and service restoration, with subsequent updates provided using a continuous delivery model. Downloads and details of new capabilities are provided in the Service Management Connect community portal on IBM developerWorks^(R) at

<https://ibm.biz/smszunit>

IBM Tivoli NetView for z/OS V6.2.1 now has enhanced automation to support larger environments, including expanded variable name and value spaces, as well as improved network management and serviceability.

IBM Tivoli OMEGAMON Performance Management Suite for z/OS, V5.3.1

This release delivers advancements in reporting, integration, reduction in resource consumption, installation, configuration, and maintenance. The Service Management Suite includes all of the components of the Performance Management suite.

Updates

IBM Tivoli OMEGAMON XE for IMS on z/OS, V5.3.0 now provides near-term history, embedded data, Type 1 and Type 2 command support, new workspaces, improved Application Trane Facility (ATF) history and sorting in the enhanced 3270 user interface (3270UI). Additionally, improved problem identification and resolution help increase efficiency and reduce costs.

IBM Tivoli OMEGAMON XE for DB2 Performance Expert V5.3.0 delivers new enhanced 3270UI workspaces, enhanced integration with IBM DB2 tools and IBM Tivoli OMEGAMON XE for CICS^(R), updates to IBM DB2 Analytics Accelerator monitoring, complete SQL text available for key thread displays, and new IBM DB2 11 enhancement.

IBM Tivoli OMEGAMON XE for Mainframe Networks V5.3.0 includes new near-term history, embedded data, and new workspaces in the enhanced 3270UI for increased problem identification and resolution of problems.

IBM Tivoli OMEGAMON Dashboard Edition on z/OS, V5.3.0 (Interim Feature) includes new operational short term status views in the enhanced 3270UI. The new short term status views, available from the enhanced 3270UI, can be used to display OMEGAMON situations, which have exceeded performance thresholds, thereby, helping to reduce costs and increase usability. This new feature is a replacement for the IBM Tivoli OMEGAVIEW 3270 feature component of IBM Tivoli OMEGAMON Dashboard Edition V5.3.0.

IBM Tivoli OMEGAMON for z/OS Management Suite V5.3.1

The component products of this suite are also included in Tivoli OMEGAMON Performance Management Suite. Updates to this suite include Tivoli OMEGAMON XE for Mainframe Networks V5.3.0 and Tivoli OMEGAMON Dashboard Edition on z/OS V5.3.0. See above for details.

Starting with this release, Tivoli OMEGAMON for z/OS Management Suite will no longer contain the component IBM Tivoli OMEGAMON XE for z/VM Linux available for 2 cores. This capability is still available as an individual product or in the IBM Infrastructure Suite for z/VM and Linux (5698-IS2).

Key prerequisites

Refer to the [Software requirements](#) and [Hardware requirements](#) sections.

Planned availability date

September 4, 2015

Description

IBM Service Management Suite for z/OS, V1.3.0

Service Management Suite is a simply priced, easy-to-order package of products that provides automation, network management, performance and availability management, and asset discovery for critical business workload running on IBM z Systems.

Service Management Suite for z/OS contains:

- IBM Service Management Unite V1.1.0
- IBM Tivoli OMEGAMON Performance Management Suite for z/OS, V5.3.1
- IBM Tivoli System Automation for z/OS, V3.5
- IBM Tivoli NetView for z/OS, V6.2.1
- IBM Tivoli Asset Discovery for z/OS, V8.1

IBM Service Management Unite V1.1.0 is a new customizable service management dashboard for visibility and control of z Systems™ environments that is available only with Service Management Suite. Service Management Unite will be updated, using a continuous delivery model, to deliver new features and function in a consumable manner. This continuous delivery model enables new, optionally installable features and functions, to be added to an existing Service Management Unite installation with no requirement for a version upgrade or migration. The initial release focuses on system health and problem isolation, and service restoration. For further details, visit the following web page

Service Management Unite gives system programmers, operators, and administrators a transparent view of the health status of the system and allows for easy problem identification and recovery. Service Management Unite provides predefined, customizable dashboards to monitor and operate applications. Users can see, at a glance, the health of the environment and drill down with only a few clicks from an alert to the underlying problem and determine the impact of failures. It enables operators to quickly and confidently analyze, isolate, and diagnose problems by providing relevant data in a single place. Service Management Unite is a true service management console, allowing operators to restore service within defined service level agreements without going to a different interface.

Service Management Unite provides access to automation functions to start, stop, or recycle business applications running on z Systems and distributed platforms, even from mobile devices, helping system programmers, operators, and administrators by delivering easier and more efficient automation, and system and network management capabilities.

Service Management Unite includes Jazz™ for Service Management and IBM Dashboard Application Services Hub (DASH), mature dashboard technologies used by many IBM and third-party products.

IBM Tivoli NetView for z/OS, V6.2.1 now has enhanced automation to support larger environments, including expanded variable name and value spaces, as well as improved network management and serviceability.

IBM Tivoli OMEGAMON Performance Management Suite for z/OS, V5.3.1

Tivoli OMEGAMON Performance Management Suite helps manage performance and availability of z Systems. It utilizes a common GUI interface while offering an enhanced 3270 User Interface (enhanced 3270UI) for select functions. In depth analysis capabilities for the subject matter experts (SMEs) and consolidated views for other groups within the IT organization make this offering truly valuable to multiple users in any company.

The suite provides composite alerts from multiple areas to quickly identify root problems, suggests actions to address problems, and fosters greater communication among IT groups for a more efficient way of managing the IBM z/OS platform. This highly integrated solution provides advantages in sharing information between the different management groups within your organization to help increase effectiveness, better meet Service Level Agreements (SLAs), and helps reduce costs through efficiency.

New in this release is the enhanced 3270UI near-term history and embedded data functions for IBM IMS and networks to go alongside the same functions currently available for z/OS, IBM CICS, IBM DB2, messaging, and storage. A new version of IBM Tivoli OMEGAMON XE for DB2 Performance Expert V5.3.0 with DB2 V11 support is also included in this release. Continued advancements in integration, enhancements to installation process, configuration, maintenance, and continued reduction in resource consumption are also delivered.

Tivoli OMEGAMON Performance Management Suite contains:

- IBM Tivoli OMEGAMON Dashboard Edition on z/OS, V5.3.0
- IBM Tivoli OMEGAMON XE on z/OS, V5.3.0
- IBM Tivoli OMEGAMON XE for Mainframe Networks V5.3.0
- IBM Tivoli OMEGAMON XE for Storage on z/OS, V5.3.0
- IBM Tivoli OMEGAMON XE for CICS on z/OS, V5.3.0
- IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.3.0
- IBM Tivoli OMEGAMON XE for IMS on z/OS, V5.3.0
- IBM Tivoli OMEGAMON XE for Messaging on z/OS, V7.3.0

- IBM Tivoli Composite Application Manager for Web Resources V7.1.0

The component products of this suite are also included in Service Management Suite.

Tivoli OMEGAMON XE for IMS V5.3.0 gives the SMEs, such as system programmers, the capability to manage z/OS operating system resources and workloads. It provides the ability to combine information from z/OS and multiple z/OS subsystems, including middleware, into a single screen for greater integrated problem determination capabilities.

New features in this release:

- Enhanced 3270UI near-term history function for better problem analysis when utilizing the new interface.
- Enhanced 3270UI panels enable SMEs to navigate quickly through the data across products, for example, render IMS and CICS information on the same workspace, to identify the source of a problem, and resolve the problem through take action commands.
- Additional workspaces in the enhanced 3270UI are provided for key resources such as:
 - Shared queues
 - Response time analysis
 - IMS Open Transaction Manager Access (OTMA)
 - Bottleneck analysis
 - IMS DB Control (DBCTL)
 - Application Trane Facility (ATF) workload history
 - Embedded data
 - Near-term history
 - Storage pools
 - Multiple systems coupling
 - Virtual Storage Access Method (VSAM), Overflow Sequential Access Method (OSAM), and database buffer pools
- Performance improvements in ATF
- Additional enhancements:
 - Additional ATF collection option to treat each message or checkpoint as a separate transaction
 - Ability to send Type 1 or Type 2 commands to a single IMS
 - Automatically begins collecting the highest response times for logical terminals (LTERMS) and transactions in Response Time Analyzer (RTA) for greater ease of use
 - Issue startup messages to console for automation
 - Day one support of the new IMS release

Tivoli OMEGAMON XE for Mainframe Networks V5.3.0 includes new near-term history, embedded data, and new workspaces in the enhanced 3270UI for increased problem identification and resolution of problems.

New features:

- Enhanced 3270UI near-term historical display support provides better problem analysis and increased problem resolution functions.
- Enhanced 3270UI near-term historical support for Tivoli OMEGAMON XE for Mainframe Networks attribute group data stored in the persistent data store.
- Implemented VTAM^(R) buffer pools in the enhanced 3270UI.
- Ability to quickly find network resources with the FIND command for easier use.
- Faster network problem debugging with PING, NSLOOKUP, and TRACERTE commands.

- Customized filters and queries by setting site or user profile variables.
- Improved navigation with the NETWORK (or NETMENU), VTAM (or VTAMMENU), TCP/IP (or TCPIPMENU), and OSA commands.
- Identify issues with your monitoring agents by using the HEALTH command to navigate to the Enterprise Mainframe Networks Health workspace
- New enhanced 3270UI workspaces:
 - Enterprise Mainframe Networks Health
 - Enterprise TCP/IP and VTAM Overview
 - TCP/IP Address Space Details
 - VTAM Address Space Details
 - VTAM Buffer Pools
 - VTAM Buffer Pool Details

Tivoli OMEGAMON Dashboard Edition on z/OS, V5.3.0 (Interim Feature)

includes new operational short term status views in the enhanced 3270UI built on situations (Tivoli OMEGAVIEW 3270 replacement) for help in reducing cost and increasing usability.

Tivoli OMEGAMON XE for DB2 Performance Expert for z/OS, V5.3.0. For more details about the enhancements, which include continued migration to the enhanced 3270UI and updates for IBM DB2 Analytics Accelerator for z/OS monitoring, refer to the [Reference information](#) section.

Other enhancements:

Both IBM Tivoli OMEGAMON Performance Management Suite for z/OS and IBM Service Management Suite include a limited license for IBM Operations Analytics with OMEGAMON Serviceability Log Analysis, a new component enabling Tivoli OMEGAMON users to perform in-context log analysis for internal Tivoli OMEGAMON and IBM Tivoli Enterprise Monitoring Server logs for product problem determination. Full use of Operations Analytics requires an additional purchase. For more information, see Operations Analytics for z/OS software announcement in the [Reference information](#) section.

IBM Tivoli OMEGAMON for z/OS Management Suite V5.3.1

Tivoli OMEGAMON for z/OS Management Suite provides real-time and historical performance and availability management capabilities for z/OS operating system, networks, and storage subsystems.

Updates

Tivoli OMEGAMON for z/OS Management Suite contains:

- IBM Tivoli OMEGAMON Dashboard Edition on z/OS, V5.3.0
- IBM Tivoli OMEGAMON XE on z/OS, V5.3.0
- IBM Tivoli OMEGAMON XE for Mainframe Networks V5.3.0
- IBM Tivoli OMEGAMON XE for Storage on z/OS, V5.3.0

The component products of this suite are also included in Tivoli OMEGAMON Performance Management Suite and Service Management Suite.

Starting with this release, Tivoli OMEGAMON for z/OS Management Suite will no longer contain the component IBM Tivoli OMEGAMON XE on z/VM^(R) and LinuxTM available for 2 cores. This capability is still available as an individual product or in IBM Infrastructure Suite on z/VM and Linux (5698-IS2).

Other enhancements to the Management Suites

All three suites now contain feature numbers for the individual components so that they can be ordered separately. This gives organizations the flexibility to order individual components within the suites.

Value Unit-based pricing

Value Unit pricing for eligible IBM z Systems IBM International Program License Agreement (IPLA) programs enables a lower cost of incremental growth and enterprise aggregation. Each z Systems™ 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 z Systems 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 z Systems IPLA program that you have acquired is referred to as **entitled license capacity**. If you wish to grow your entitled license capacity for a z Systems IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each z Systems 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 vice-versa, 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://www.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 z Systems IPLA program you selected, refer to the [Terms and conditions](#) section.

Product positioning

The value of IBM Service Management Suite for z/OS, V1.3.0 is the coupling of automation with broad performance and availability management capabilities covering IBM z/OS and Linux™ on z Systems operating systems, and IBM CICS Transaction Server for z/OS, IBM Information Management System, IBM WebSphere® Application Server for z/OS, and IBM WebSphere MQ for z/OS middleware. For example, the IBM Tivoli OMEGAMON family provides both problem detection and debug capabilities while also integrating with IBM Tivoli NetView for z/OS automation and ultimately generating system automation policy. The suite offers breadth and depth of coverage of your service management needs.

Reference information

Refer to the following software announcements for the products included in IBM Service Management Suite for z/OS, V1.3.0:

- IBM Tivoli NetView for z/OS V6.2, Software Announcement [213-445](#), dated October 22, 2013
- IBM Tivoli System Automation for z/OS V3.5, Software Announcement [214-284](#), dated July 15, 2014
- IBM Tivoli Asset Discovery for z/OS V8.1, Software Announcement [213-036](#), dated February 12, 2013
- IBM DB2 Analytics Accelerator for z/OS, Software Announcement [215-086](#), dated May 5, 2015
- IBM Tivoli Performance Management Suite for z/OS V5.3 and IBM Tivoli OMEGAMON z/OS Management Suite V5.3, Software Announcement [214-272](#), dated July 15, 2014
- IBM Tivoli Composite Application Manager for Application Diagnostics V7.1, Software Announcement [209-424](#), dated December 1, 2009
- IBM Operations Analytics for z Systems V2.1.0, Software Announcement [215-133](#), dated April 21, 2015

Refer to the following software announcements for the products included in IBM Tivoli OMEGAMON Performance Management Suite for z/OS, V5.3.1:

- IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, Software Announcement [215-086](#), dated May 5, 2015
- IBM Tivoli OMEGAMON XE on z/OS, IBM Tivoli OMEGAMON XE for CICS on z/OS, IBM Tivoli OMEGAMON XE for Messaging for z/OS, IBM Tivoli OMEGAMON Dashboard Edition on z/OS, IBM Tivoli OMEGAMON XE for Storage on z/OS, Software Announcement [214-272](#), dated July 15, 2014
- IBM Tivoli Composite Application Manager for Application Diagnostics on z/OS, Software Announcement [209-424](#), dated December 1, 2009
- IBM Operations Analytics for z Systems V2.1.0, Software Announcement [215-133](#), dated April 21, 2015

Refer to the following software announcements for the products included in IBM Tivoli OMEGAMON for z/OS Management Suite V5.3.1:

- IBM Tivoli OMEGAMON XE on z/OS, V5.3.0, IBM Tivoli OMEGAMON XE for Storage on z/OS, V5.3.0, IBM Tivoli OMEGAMON Dashboard Edition on z/OS, V5.3.0, Software Announcement [214-272](#), dated July 15, 2014

Program number

| Program number | VRM | Program name |
|----------------|-------|---|
| 5698-AAF | 1.3.0 | IBM Service Management Suite for z/OS |
| 5698-T02 | 5.3.0 | IBM Tivoli OMEGAMON XE for IMS on z/OS |
| 5698-T03 | 5.3.0 | IBM Tivoli OMEGAMON XE for Mainframe Networks |
| 5698-AA8 | 5.3.1 | IBM Tivoli OMEGAMON Performance Management Suite for z/OS |
| 5698-TOM | 5.3.1 | IBM Tivoli OMEGAMON for z/OS Management Suite |

| Program number | VRM | Program name |
|----------------|-------|--|
| 5698-T06 | 5.3.0 | IBM Tivoli OMEGAMON Dashboard Edition on z/OS |

Product identification number

| Program PID number | Subscription and Support PID number |
|--------------------|-------------------------------------|
| 5698-AAF | 5698-AAG |
| 5698-T02 | 5608-S75 |
| 5698-T03 | 5698-S76 |
| 5698-AA8 | 5698-AA9 |
| 5698-TOM | 5698-Z06 |
| 5698-T06 | 5608-S72 |

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).

[BP Attachment for Announcement Letter 215-270](#)

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 available to be ordered. To order, use the Publications Center or contact your IBM representative.

IBM Service Management Suite for z/OS, V1.3.0 (5698-AAG)

| Order number | Title |
|--------------|---|
| GI13-2328-02 | IBM Service Management Suite for z/OS Program Directory |
| LC27-6399-02 | IBM Service Management Suite for z/OS Suite License Information CD |

IBM Tivoli OMEGAMON Performance Management Suite for z/OS, V5.3.1 (5698-AA8)

| Order number | Title |
|--------------|---|
| GI13-2299-03 | IBM Tivoli OMEGAMON Performance Management Suite for z/OS Program Directory |

| Order number | Title |
|--------------|--|
| LC27-4899-02 | IBM Tivoli OMEGAMON Performance Management for z/OS Suite License Information CD |

IBM Tivoli OMEGAMON XE for IMS on z/OS, V5.3.0 (5698-TOM)

| Order number | Title |
|--------------|--|
| GI13-2251-01 | IBM Tivoli OMEGAMON XE for IMS on z/OS V5.3.0 Program Directory |
| LC27-4934-00 | IBM Tivoli OMEGAMON XE for IMS on z/OS V5.3.0 License Information CD |

IBM Tivoli OMEGAMON XE for Mainframe Networks V5.3.0 (5698-T03)

| Order number | Title |
|--------------|---|
| GI13-2255-02 | IBM Tivoli OMEGAMON XE for Mainframe Networks V5.3.0 Program Directory |
| LC27-4935-00 | IBM Tivoli OMEGAMON XE for Mainframe Networks V5.3.0 License Information CD |

IBM Tivoli OMEGAMON Performance Management Suite for z/OS product documentation is published on IBM Knowledge Center, which can be viewed from a web browser with Internet access

IBM Tivoli OMEGAMON Performance Management Systems product documentation is published on IBM Knowledge Center, which can be viewed from a web browser with Internet access

http://www.ibm.com/support/knowledgecenter/SS7MFU_5.3.0/com.ibm.omegamon_pms.doc_5.3.0/pms_welcome.htm

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. A large number of publications are available online in various file formats, and they can all be downloaded by all countries. The IBM Publications Center portal is located at

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

Services

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/>

Technical information

Specified operating environment

Hardware requirements

Refer to the [Reference information](#) section for a link to the individual announcements for each product. The hardware requirements section in each announcement will give detailed information for each product.

Software requirements

Refer to the [Reference information](#) section for a link to the individual announcements for each product. The hardware requirements section in each announcement will give detailed information for each product.

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

Packaging

The programs in this announcement are distributed with:

- International Program License Agreement (Z125-3301)
- License Information document
- Publications (refer to the [Publications](#) section)
- 3590 Tape

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, and will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

Security, auditability, and control

The programs in this announcement use the security and auditability features of the operating system software.

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

Ordering information

Value Unit exhibit VUE007

| | MSUS minimum | MSUS maximum | Value Units/MSU |
|--------|-----------------|-----------------|-----------------|
| Base | 1 | 3 | 1 |
| Tier A | 4 | 45 | 0.45 |
| Tier B | 46 | 175 | 0.36 |
| Tier C | 176 | 315 | 0.27 |
| Tier D | 316 | + | 0.2 |

Ordering example

The total number of Value Units is calculated according to the following example.

If your required license capacity is 1,500 MSUs for your selected z Systems IPLA product, the applicable Value Units would be:

Translation from MSUs to value units

| | MSUs | * | Value Units/MSU | = | Value Units |
|--------|-------|---|-----------------|---|-------------|
| Base | 3 | * | 1.00 | = | 3.00 |
| Tier A | 42 | * | .45 | = | 18.90 |
| Tier B | 130 | * | .36 | = | 46.80 |
| Tier C | 140 | * | .27 | = | 37.80 |
| Tier D | 1,185 | * | .20 | = | 237.00 |
| Total | 1,500 | | | | 343.50 |

When calculating the total number of Value Units, the sum is to be rounded up to the next integer.

Ordering z/OS through the Internet

Shopz 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). Shopz is available in the U.S. and several countries in Europe. In countries where Shopz 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 Shopz website at

<http://www.ibm.com/software/shopzseries>

Charge metric

| Program name | Part number or PID number | Charge metric |
|---|---------------------------|---------------|
| IBM Service Management Suite for z/OS | 5698-AAF | Value Unit |
| IBM Service Management Suite for z/OS S&S | 5698-AAG | Value Unit |
| IBM Tivoli OMEGAMON XE for IMS on z/OS, V5.3.0 | 5698-T02 | Value Unit |
| IBM Tivoli OMEGAMON XE for Mainframe Networks V5.3.0 | 5698-T03 | Value Unit |
| IBM Tivoli OMEGAMON Performance Management Suite for z/OS, V5.3.1 | 5698-AA8 | Value Unit |
| IBM Tivoli OMEGAMON for z/OS Management Suite V5.3.1 | 5698-TOM | Value Unit |
| IBM Tivoli OMEGAMON Dashboard Edition on z/OS, V5.3.0 | 5698-T06 | Value Unit |

Basic license

Translation from MSUs to Value Units

| | MSUs | Value Units/MSU |
|--------|---------|-----------------|
| Base | 1-3 | 1.00 |
| Tier A | 4-45 | .45 |
| Tier B | 46-175 | .36 |
| Tier C | 176-315 | .27 |
| Tier D | 316+ | .20 |

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: IBM Service Management Suite for z/OS

Program PID: 5698-AAF

| Entitlement identifier | Description | License option/Pricing metric |
|------------------------|---------------------------------------|-------------------------------|
| S017J24 | IBM Service Management Suite for z/OS | Basic OTC, per Value Unit |
| | | Basic OTC, per MSU-day TUC |

| Orderable supply ID | Language | Distribution medium |
|---------------------|----------|---------------------|
| S017JC7 | English | 3590 Tape |
| S017JC6 | Japanese | 3590 Tape |

IBM OMEGAMON Serviceability Log Analysis

| Orderable supply ID | Language | Distribution medium |
|---------------------|----------|---------------------|
| S017V3K | English | 3590 Tape |

IBM Tivoli OMEGAMON XE for Storage on z/OS

| Orderable supply ID | Language | Distribution medium |
|---------------------|----------|---------------------|
| S017V3W | English | 3590 Tape |

IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS

| Orderable supply ID | Language | Distribution medium |
|---------------------|----------|---------------------|
| S017V3P | English | 3590 Tape |

IBM Tivoli OMEGAMON XE for IMS on z/OS

| Orderable supply ID | Language | Distribution medium |
|---------------------|----------|---------------------|
| S017V3V | English | 3590 Tape |

IBM Tivoli Composite Application Manager for Web Resources on z/OS

| Orderable supply ID | Language | Distribution medium |
|---------------------|----------|---------------------|
| S017V3R | English | 3590 Tape |

IBM Tivoli OMEGAMON XE for Messaging

| Orderable supply ID | Language | Distribution medium |
|---------------------|----------|---------------------|
| S017V3T | English | 3590 Tape |

IBM Tivoli OMEGAMON XE for Mainframe Networks

| Orderable supply ID | Language | Distribution medium |
|---------------------|----------|---------------------|
| S017V41 | English | 3590 Tape |

IBM Tivoli OMEGAMON XE for CICS on z/OS

| Orderable supply ID | Language | Distribution medium |
|---------------------|----------|---------------------|
| S017V3N | English | 3590 Tape |

IBM Tivoli OMEGAMON XE on z/OS

| Orderable supply ID | Language | Distribution medium |
|---------------------|----------|---------------------|
| S017V3X | English | 3590 Tape |

IBM Tivoli OMEGAMON Dashboard Edition on z/OS

| Orderable supply ID | Language | Distribution medium |
|---------------------|----------|---------------------|
| S017V3Z | English | 3590 Tape |

IBM Tivoli Asset Discovery for z/OS

| Orderable supply ID | Language | Distribution medium |
|---------------------|----------|---------------------|
| S017V40 | English | 3590 Tape |

IBM Tivoli NetView for z/OS

| Orderable supply ID | Language | Distribution medium |
|---------------------|----------|---------------------|
| S017V42 | English | 3590 Tape |
| S017V3S | Japanese | 3590 Tape |

IBM Tivoli System Automation for z/OS

| Orderable supply ID | Language | Distribution medium |
|---------------------|----------|---------------------|
| S017V3L | English | 3590 Tape |
| S017V3M | Japanese | 3590 Tape |

Program name: IBM Tivoli OMEGAMON Dashboard Edition on z/OS

Program PID: 5698-T06

| Entitlement identifier | Description | License option/Pricing metric |
|------------------------|---|-------------------------------|
| S016ZVW | IBM Tivoli OMEGAMON Dashboard Edition on z/OS | Basic OTC, per Value Unit |
| | | Basic OTC, per MSU-day TUC |
| Orderable supply ID | Language | Distribution medium |
| S016ZVX | Multilingual | 3590 Tape |

Program name: IBM Tivoli OMEGAMON XE for IMS on z/OS

Program PID: 5698-T02

| Entitlement identifier | Description | License option/Pricing metric |
|------------------------|--|-------------------------------|
| S0172RM | IBM Tivoli OMEGAMON XE for IMS on z/OS | Basic OTC, per Value Unit |
| | | Basic OTC, per MSU-day TUC |
| Orderable supply ID | Language | Distribution medium |
| S0172RN | Multilingual | 3590 Tape |

Program name: IBM Tivoli OMEGAMON XE for Mainframe Networks

Program PID: 5698-T03

| Entitlement identifier | Description | License option/Pricing metric |
|------------------------|---|-------------------------------|
| S0173DL | IBM Tivoli OMEGAMON XE for Mainframe Networks | Basic OTC, per Value Unit |
| | | Basic OTC, per MSU-day TUC |
| Orderable supply ID | Language | Distribution medium |
| S0173DM | English | 3590 Tape |

Program name: IBM Tivoli OMEGAMON for z/OS Management Suite

Program PID: 5698-TOM

| Entitlement identifier | Description | License option/Pricing metric |
|------------------------|---|-------------------------------|
| S0173DS | IBM Tivoli OMEGAMON for z/OS Management Suite | Basic OTC, per Value Unit |
| | | Basic OTC, per MSU-day TUC |
| Orderable supply ID | Language | Distribution medium |
| S0173DT | Multilingual | 3590 Tape |

IBM Tivoli OMEGAMON XE on z/OS

| Orderable supply ID | Language | Distribution medium |
|---------------------|--------------|---------------------|
| S017V2D | Multilingual | 3590 Tape |

IBM Tivoli OMEGAMON XE for Storage on z/OS

| Orderable supply ID | Language | Distribution medium |
|---------------------|--------------|---------------------|
| S017V2C | Multilingual | 3590 Tape |

IBM Tivoli OMEGAMON XE for Mainframe Networks

| Orderable supply ID | Language | Distribution medium |
|---------------------|--------------|---------------------|
| S017V2B | Multilingual | 3590 Tape |

IBM Tivoli OMEGAMON XE for Dashboard Edition on z/OS

| Orderable supply ID | Language | Distribution medium |
|---------------------|--------------|---------------------|
| S017V29 | Multilingual | 3590 Tape |

Program name: IBM Tivoli OMEGAMON Performance Management Suite for z/OS

Program PID: 5698-AA8

| Entitlement identifier | Description | License option/Pricing metric |
|------------------------|---|-------------------------------|
| S017D15 | IBM Tivoli OMEGAMON Performance Management Suite for z/OS | Basic OTC, per Value Unit |
| | | Basic OTC, per MSU-day TUC |

| Orderable supply ID | Language | Distribution medium |
|---------------------|--------------|---------------------|
| S017D14 | Multilingual | 3590 Tape |

IBM OMEGAMON Serviceability Log Analysis

| Orderable supply ID | Language | Distribution medium |
|---------------------|--------------|---------------------|
| S017V2W | Multilingual | 3590 Tape |

IBM Tivoli OMEGAMON XE for Storage on z/OS

| Orderable supply ID | Language | Distribution medium |
|---------------------|--------------|---------------------|
| S017V32 | Multilingual | 3590 Tape |

IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS

| Orderable supply ID | Language | Distribution medium |
|---------------------|--------------|---------------------|
| S017V2V | Multilingual | 3590 Tape |

IBM Tivoli OMEGAMON XE for IMS on z/OS

| Orderable supply ID | Language | Distribution medium |
|---------------------|--------------|---------------------|
| S017V2S | Multilingual | 3590 Tape |

IBM Tivoli Composite Application Manager for Web Resources on z/OS

| Orderable supply ID | Language | Distribution medium |
|---------------------|--------------|---------------------|
| S017V2X | Multilingual | 3590 Tape |

IBM Tivoli OMEGAMON XE for Messaging

| Orderable supply ID | Language | Distribution medium |
|---------------------|--------------|---------------------|
| S017V2Z | Multilingual | 3590 Tape |

IBM Tivoli OMEGAMON XE for Mainframe Networks

| Orderable supply ID | Language | Distribution medium |
|---------------------|--------------|---------------------|
| S017V31 | Multilingual | 3590 Tape |

IBM Tivoli OMEGAMON XE for CICS on z/OS

| Orderable supply ID | Language | Distribution medium |
|---------------------|--------------|---------------------|
| S017V2T | Multilingual | 3590 Tape |

IBM Tivoli OMEGAMON XE on z/OS

| Orderable supply ID | Language | Distribution medium |
|---------------------|--------------|---------------------|
| S017V33 | Multilingual | 3590 Tape |

IBM Tivoli OMEGAMON Dashboard Edition on z/OS

| Orderable supply ID | Language | Distribution medium |
|---------------------|--------------|---------------------|
| S017V30 | Multilingual | 3590 Tape |

Subscription and Support PID: 5698-AAG

| Entitlement identifier | Description | License option/Pricing metric |
|------------------------|---|--|
| S017J27 | IBM Service Management Suite for z/OS S&S | Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration |
| Orderable supply ID | Language | Distribution medium |
| S017JC9 | English | Hardcopy publication |
| S017JC8 | Japanese | Hardcopy publication |

Subscription and Support PID: 5608-S72

| Entitlement identifier | Description | License option/Pricing metric |
|------------------------|---|--|
| S011KWT | IBM Tivoli OMEGAMON Dashboard Edition on z/OS S&S | Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration |
| Orderable supply ID | Language | Distribution medium |
| S011KWV | Multilingual | Hardcopy publication |

Subscription and Support PID: 5608-S75

| Entitlement identifier | Description | License option/Pricing metric |
|------------------------|--|--|
| S011KWP | IBM Tivoli OMEGAMON XE for IMS on z/OS S&S | Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration |
| Orderable supply ID | Language | Distribution medium |
| S011KWR | Multilingual | Hardcopy publication |

Subscription and Support PID: 5608-S76

| Entitlement identifier | Description | License option/Pricing metric |
|------------------------|---|-------------------------------|
| S011KWL | IBM Tivoli OMEGAMON XE for Mainframe Networks S&S | Basic ASC, per Value Unit |

| Entitlement identifier | Description | License option/Pricing metric |
|------------------------|--------------|------------------------------------|
| | | SW S&S No charge, decline |
| | | SW S&S Per MSU SW S&S registration |
| Orderable supply ID | Language | Distribution medium |
| S011KWM | Multilingual | Hardcopy publication |

Subscription and Support PID: 5698-Z06

| Entitlement identifier | Description | License option/Pricing metric |
|------------------------|---|------------------------------------|
| S016T65 | IBM Tivoli OMEGAMON for z/OS Management Suite S&S | Basic ASC, per Value Unit |
| | | SW S&S No charge, decline |
| | | SW S&S Per MSU SW S&S registration |
| Orderable supply ID | Language | Distribution medium |
| S016T66 | Multilingual | Hardcopy publication |

Subscription and Support PID: 5698-AA9

| Entitlement identifier | Description | License option/Pricing metric |
|------------------------|---|------------------------------------|
| S017D18 | IBM Tivoli OMEGAMON Performance Management Suite for z/OS S&S | Basic ASC, per Value Unit |
| | | SW S&S No charge, decline |
| | | SW S&S Per MSU SW S&S registration |
| Orderable supply ID | Language | Distribution medium |
| S017D17 | Multilingual | Hardcopy publication |

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 Shopz 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://www.software.ibm.com/ShopzSeries>

For additional information on the Product ServerPac option, refer to Software Announcement [212-272](#), dated July 31, 2012.

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.

Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

Agreement for Acquisition of Software Maintenance

The following agreement applies for Software Subscription and Support (Software Maintenance) and does not require customer signatures:

- IBM Agreement for Acquisition of Software Maintenance (Z125-6011)

These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect. IBM z Systems Operational Support Services - SoftwareXcel is an option if you desire added services.

License Information number

| Description | Form number |
|--|--------------|
| IBM Service Management Suite for z/OS, V1.3.0 | GI13-2327-02 |
| IBM Tivoli OMEGAMON for z/OS Management Suite V5.3.1 | GI13-2259-03 |
| IBM Tivoli OMEGAMON XE for IMS on z/OS, V5.3.0 | GI13-2252-01 |

| Description | Form number |
|---|--------------------|
| IBM Tivoli OMEGAMON Performance Management Suite for z/OS, V5.3.1 | GI13-2300-03 |
| IBM Tivoli OMEGAMON XE for Mainframe Networks V5.3.0 | GI13-2256-02 |
| IBM Tivoli OMEGAMON Dashboard Edition on z/OS, V5.3.0 | GI13-2211-01 |

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

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the IBM Software Support Handbook found at

<http://www.ibm.com/support/handbook>

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

Program support

Enhanced support, called Subscription and Support, includes telephone assistance, as well as access to updates, releases, and versions of the program as long as support is in effect. You will be notified of discontinuance of support with 12 months' notice.

Money-back guarantee

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

Software Subscription and Support applies

Yes. During the S&S period, for the unmodified portion of a Program, and to the extent problems can be recreated in the specified operating environment, IBM will provide the following:

- Defect correction information, a restriction, or a bypass.
- Program updates: Periodic releases of collections of code corrections, fixes, functional enhancements and new versions and releases to the Program and documentation.
- Technical assistance: A reasonable amount of remote assistance via telephone or electronically to address suspected Program defects. Technical assistance is available from the IBM support center in the Customer's geography.

Additional details regarding Technical Assistance, that includes IBM contact information, are provided in the *IBM Software Supportat*

<http://www.ibm.com/support/handbook>

S&S does not include assistance for:

- The design and development of applications
- Customer's use of Programs in other than their specified operating environment, or
- Failures caused by products for which IBM is not responsible under the IBM Agreement for Acquisition of Software Maintenance.

S&S is provided only if the Program is within its support timeframe as specified in the Software Support Lifecycle policy for the Program.

Yes. All distributed software licenses include Software Subscription and Support (also referred to as Software Maintenance) for a period of 12 months from the date of acquisition, providing a streamlined way to acquire IBM software and assure technical support coverage for all licenses. Extending coverage for a total of three years from date of acquisition may be elected.

While your Software Subscription and Support is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance via telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, every day of the year. For additional details, consult your IBM Software Support Handbook at

<http://www.ibm.com/support/handbook>

Software Subscription and Support does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under this agreement.

For more information about the Passport Advantage^(R) Agreement, visit the Passport Advantage website at

<http://www.ibm.com/software/passportadvantage>

IBM Operational Support Services - SoftwareXcel

Yes

System i Software Maintenance applies

No

Variable charges apply

Yes

Educational allowance available

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

Products eligible for single version charging

| Replaced program | | Replacement program | |
|------------------|--------------------------------|---------------------|--|
| Program number | Program name | Program number | Program name |
| 5697-B82 | Tivoli NetView for z/OS 390 V1 | 5698-AAF | Service Management Suite for z/OS V1.3 |
| 5697-ENV | Tivoli NetView for z/OS V5 | 5698-AAF | Service Management Suite for z/OS V1.3 |
| 5697-NV6 | Tivoli NetView for z/OS V6 | 5698-AAF | Service Management Suite for z/OS V1.3 |

Sub-capacity terms and conditions

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

For more information on the Value Unit Exhibit for the z Systems IPLA program you selected, refer to the [Ordering information](#) section.

| Program number | Program name | Terms |
|----------------|---|-----------------|
| 5698-AAF | IBM Service Management Suite for z/OS | z/OS-based |
| 5698-T02 | IBM Tivoli OMEGAMON XE for IMS on z/OS | Reference-based |
| 5698-T03 | IBM Tivoli OMEGAMON XE for Mainframe Networks | z/OS-based |
| 5698-AA8 | IBM Tivoli OMEGAMON Performance Management Suite for z/OS | z/OS-based |
| 5698-TOM | IBM Tivoli OMEGAMON for z/OS Management Suite | z/OS-based |
| 5698-T06 | IBM Tivoli OMEGAMON Dashboard Edition on z/OS | z/OS-based |

Full-capacity mainframes

In cases where full capacity is applicable, the following terms apply.

Execution based, z/OS based, full machine based: The required capacity of a z Systems IPLA program with these terms equals the MSU-rated capacity of the machines where the z Systems IPLA program executes.

For more information on mainframe MSU-rated capacities, visit

<http://www.ibm.com/systems/z/resources/swprice/reference/exhibits/>

Reference based: The required license capacity of a z Systems IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.

Sub-capacity mainframes

In cases where sub-capacity is applicable, the following terms apply.

Execution based: The required capacity of a z Systems IPLA sub-capacity program with these terms equals the capacity of the LPARs where the z Systems IPLA program executes.

z/OS based: The required license capacity of a z Systems IPLA program with these terms equals the license capacity of z/OS on the machines where the z Systems IPLA program executes.

Reference based: The required license capacity of a z Systems IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.

Full machine based: The required license capacity of a z Systems IPLA program with full machine based terms equals the MSU-rated capacity of the machines where the z Systems IPLA program executes.

For more information on mainframe MSU-rated capacities, refer to *The IBM z Systems Machines Exhibit*, Z125-3901, or visit the Mainframes section of the z Systems Exhibits website.

<http://www.ibm.com/systems/z/resources/swprice/reference/exhibits/>

For additional information for products with reference-based terms, z Systems IPLA sub-capacity programs with reference-based terms adds value to the parent program across the environment, regardless of where in the environment the z Systems IPLA program executes.

An environment is defined as either a single or stand-alone machine or a qualified Parallel Sysplex^(R). You may have one or more different environments across the enterprise. To determine the required license capacity for each z Systems IPLA program with referenced-based terms, each environment should be assessed separately.

When a z Systems IPLA sub-capacity program with reference-based terms is used in a qualified Parallel Sysplex environment, the required license capacity of the z Systems IPLA program must equal with the license capacity of the parent program across the Parallel Sysplex. Qualified Parallel Sysplex refers to one:

- Where MLC pricing is aggregated across the sysplex.

Sub-capacity eligibility

To be eligible for sub-capacity charging on select z Systems IPLA programs, you must first implement and comply with all terms of either sub-capacity Workload License Charges (WLC) or sub-capacity Entry Workload License Charges (EWLC). To implement sub-capacity WLC or EWLC, a machine must be z Systems (or equivalent). On that machine:

- All instances of the OS/390^(R) operating system must be migrated to the z/OS operating systems.
- Any licenses for the OS/390 operating system must be discontinued.
- All instances of the z/OS operating systems must be running in z/Architecture^(R) (64-bit) mode.

For that machine, you must create and submit a Sub-Capacity Report to IBM each month. Sub-Capacity Reports must be generated using the Sub-Capacity Reporting Tool (SCRT). For additional information or to obtain a copy of SCRT, visit the z Systems Software Pricing website

<http://www.ibm.com/systems/z/resources/swprice/>

You must comply with all of the terms of the WLC or EWLC offering, whichever is applicable:

- The complete terms and conditions of sub-capacity WLC are defined in the *IBM Customer Agreement - Attachment for z Systems Workload License Charges*(Z125-6516).
- The complete terms and conditions for sub-capacity EWLC are defined in the *IBM Customer Agreement - Attachment for EWLC, TWLC, zELC, and z/OS.e License Charges*(Z125-6587).

Additionally, you must sign and comply with the terms and conditions specified in the amendment to the IPLA contract -*Amendment for Amendment for IBM z Systems Programs Sub-Capacity Pricing*(Z125-6929).Once the amendment is signed, the terms in the amendment replace any and all previous z Systems IPLA sub-capacity terms and conditions.

Sub-capacity utilization determination

Sub-capacity utilization is determined based on the utilization of an eligible operating system and machine (for example, z/OS running in z/Architecture (64 bit) mode on a z Systems ((or equivalent) server).

Sub-capacity utilization is determined based on the product's own execution as reported to IBM in accordance with the requirements for reporting sub-capacity utilization for products.

On/Off CoD

To be eligible for On/Off CoD pricing, you must be enabled for temporary capacity on the corresponding hardware, and the required contract, Attachment for IBM z Systems On/Off Capacity on Demand (Z125-7883) must be signed prior to use.

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 current prices, visit

<http://www.ibm.com/support>

Variable charges: The applicable processor-based one-time charge will be based on the group of the designated machine on which the program is licensed for use.

If the program is designated to a processor in a group for which no charge is listed, the charge of the next higher group listed applies. For movement to a machine in a higher group, an upgrade charge equal to the difference in the then-current charges between the two groups will apply. For movement to a machine in a lower group, there will be no adjustment or refund of charges paid.

IBM Global Financing

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