



IBM Tivoli OMEGAMON XE on z/OS , V5.1.0 and IBM Tivoli OMEGAMON XE on z/OS for CICS , V5.1.0 can reduce cost and business risk of managing z/OS and CICS environments

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At a glance

IBM® Tivoli® OMEGAMON® XE on z/OS®, V5.1, IBM Tivoli OMEGAMON XE for CICS® on z/OS, V5.1, and IBM Tivoli OMEGAMON Dashboard Edition for z/OS, V5.1 use a new architecture to simplify installation, provide for integrated enhanced 3270 monitors focused on helping subject matter experts, and resolve impacts faster, integrating related data defined by customer subject matter experts focused on solving problems encountered on a day-to-day basis.

These three products can enable you to:

- Customize the enhanced user interface based on the scope and control of your day-to-day job
- Improve resource utilization to maximize investment
- Improve personnel interaction for better synergy and efficiency
- Reduce outages or delays
- Reduce meantime-to-correction of complex problems

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).

Reference: LE001

Overview

IBM Tivoli introduces a significant update to IBM Tivoli OMEGAMON Performance Monitors for key System z® environments. IBM Tivoli OMEGAMON XE for CICS and IBM Tivoli OMEGAMON XE on z/OS V5 editions bring new capabilities designed to:

- Improve problem resolution efficiency by requiring fewer steps to isolate root cause performance impact in real time, and, therefore, providing higher availability.
- Improve visibility, control, and automation with a new more comprehensive 3270-based user interface capable of viewing the entire enterprise-wide environment from a single 3270 screen.

- Reduce the time required for installation, configuration, and maintenance by leveraging enhanced IBM Tivoli Monitoring functions and a new Parmgen configuration tool.

IBM Tivoli OMEGAMON XE on z/OS:

- Allows subject matter experts, such as system programmers, to combine information from z/OS and multiple z/OS subsystems (including CICS) into a single screen.
- Features an enhanced 3270 user interface giving users the ability to effectively move between different z/OS components; provides a common look and feel of command and control conditions.
- Improves the overall ability for users to perform analytics by reducing the amount of data generated from performance metrics, with an option to organize the key performance indicators to be viewed based on what subject matter experts defined. This provides the ability to resolve problems on z/OS and subsystems and to follow interrelated problems from the same user interface.
- Provides users with advanced problem determination assistance using focused problem-solving scenarios designed by customers; these scenarios put related data needed for associated problems into context to help resolve today's performance and availability issues.

IBM Tivoli OMEGAMON XE for CICS on z/OS:

- Provides users advanced problem determination assistance using focused problem-solving scenarios designed by customers; these scenarios put related data needed for associated problems into context to resolve today's performance and availability impacts.
- Improves visibility, control, and automation for subject matter experts by being able to combine both CICS and z/OS monitors in a new enhanced 3270 workspace.
- Provides an enhanced 3270 user interface to effectively move between V5.1 OMEGAMON monitors to provide a common look, touch, and feel of command and control conditions based on System Authorization Facility (SAF) access authority and controls.
- Reduces the amount of extraneous data generated by performance metrics by organizing the key performance indicators to be viewed based on what customer subject matter experts defined as a process to resolve problems on both z/OS and CICS systems and follow interrelated problems from the same user interface.
- Improves problem resolution efficiency by generating fewer 3270 "clicks" to find a root cause performance impact in real time.
- Exploits IBM's zIIP process for service level analysis, lowering the cost of compute time.

IBM Tivoli OMEGAMON Dashboard Edition on z/OS:

- Provides the capability to integrate management of z/OS operating system, network, subsystems, and storage management for greater viability, control, and automation of your z/OS environment for improved utilization of resources.
- Helps reduce costs by integrating z/OS management functions and alerts, facilitating a more efficient mainframe operation.
- Offers advanced alerting capabilities that integrates problem and availability information from the operating system, network, and subsystems making it easier to find problems which reduces the mean time to repair which will help with problem avoidance of costly outages saving time and money.
- Integrates z/OS information with Tivoli's enterprise-wide end-to-end performance and availability monitoring capability.

IBM Tivoli OMEGAMON on z/OS Management Suite is a consolidated offering that provides a broad real-time and historical performance and availability management function for the z/OS operating system, networks, and storage subsystems. It includes the new Tivoli OMEGAMON XE on z/OS, V5.1.0 and Tivoli OMEGAMON Dashboard Edition on z/OS, V5.1.0. As with every new release of a product contained in this consolidated offering, when a new release of a component is

available, it will be included in the IBM Tivoli OMEGAMON on z/OS Management Suite. Therefore, in conjunction with the release of IBM Tivoli OMEGAMON XE on z/OS, V5.1.0 and IBM Tivoli OMEGAMON Dashboard Edition for z/OS, V5.1.0, the IBM Tivoli OMEGAMON for z/OS Management Suite is now V4.2.1.

Key prerequisites

Refer to the [Hardware and software requirements](#) section.

Planned availability date

March 9, 2012

Description

IBM Tivoli OMEGAMON XE on z/OS, V5.1

IBM Tivoli OMEGAMON XE on z/OS, V5.1 is one of the first releases of the OMEGAMON family that incorporates a new enhanced 3270 user interface to help system programmers speed problem diagnosis by simplifying problem analysis. Using Agile development practices, customer design and feedback, the scenarios (based on interviews with subject matter experts) help troubleshoot and resolve today's performance and availability problems through the use of related data in context to provide an overall integrated view for analysis and repair actions.

The new OMEGAMON provides value in the areas of operating system, z/OS subsystems, installation, and configuration for the subject matter experts and other users.

New enhanced 3270 Sysplex workspace views providing z/OS operating system management capabilities include:

- Notification and alerting of system health checks for proactive management
- Summary views of the Sysplex, Central Electronics Complex (CEC), and use of problem solving scenarios to speed resolution on today's most common performance and availability impacts.
- Impact resolution on any address space running on z/OS, bottlenecks, and their impacts on workloads and resources, workload manager, CPU and specialty processors, storage and memory, HiperDispatch, simple I/O subsystems, loop detection, operator alerts, Sysplex components, and structures.

These are just some of the metrics of z/OS, which can be monitored. The solution also provides action capabilities needed to address problems that are detected, minimizing mean time to correction or avoiding costly outages.

Additional capabilities include new improvements for operational control and management of the OMEGAMON portfolio.

Tivoli OMEGAMON V5.1 provides new capabilities for installation and maintenance for system programmers responsible for upgrades and day-to-day operations.

The IBM Tivoli OMEGAMON XE V5.1 family leverages Tivoli Monitoring V6.2.3 and the new self-describing agent autonomic capability to remove the necessity for using application CDs to manually synchronize management servers and agents.

A new installation methodology, based on Parmgen interactions, is introduced for the OMEGAMON family to provide a faster, more standards-based user interaction for upgrades or new installations.

Both of these infrastructure changes provide for a faster time to value and reduce the support costs to lower your total cost of ownership.

IBM Tivoli OMEGAMON XE for CICS, V5.1

IBM Tivoli OMEGAMON XE on z/OS, V5.1 and IBM Tivoli OMEGAMON XE for CICS on z/OS, V5.1 are the first releases of the OMEGAMON family that incorporate a new enhanced 3270 user interface that helps system programmers speed analysis by simplifying problem analysis. Using Agile development practices, customer design and feedback, the scenarios (based on interviews with subject matter experts) help troubleshoot and resolve today's performance and availability problems through the use of related data in context to provide an overall integrated view for analysis and repair actions.

Tivoli OMEGAMON V5.1 provides specific values in the areas of operating system, CICS systems, installation, and configuration for the subject matter experts and other users.

This product facilitates proactive management of complex CICS systems to help achieve high performance and avoid costly downtime. IBM Tivoli OMEGAMON XE for CICS on z/OS helps monitor and manage CICS transactions and resources to isolate and quickly detect situations and events in order to avoid or resolve problems as quickly as possible.

An enhanced 3270 CICSplex workspace provides better visibility to enable faster resolution of performance and availability problems that affect the z/OS CICS systems. These problem-solving scenarios speed mean time to repair by organizing metric data into information flows to provide subject matter experts with an organized process for problem resolution.

Tivoli OMEGAMON XE for CICS on z/OS, V5.1 enhanced 3270 interface problem solving scenarios will cover the following areas:

- CICSplex® region overview
- Transaction analysis
- Transaction definitions
- Task history (ONDV)
- Program definitions
- File analysis
- Storage analysis
- Temporary storage analysis
- Degradation analysis (DEXAN)
- DB2® summary
- Connections summary
- Enqueue analysis
- Resource limiting (RLIM) controls
- Application trace
- Facility (ATF) control
- Web services

The following OC commands were added to enable analysis of your OMEGAMON CICSplex configuration:

- OC STATUS
- CICSplex
- OC DISPLAY
- PLEX=cicsplex
- OC DISPLAY
- PLEXRULES

The Service Level Analysis component of OMEGAMON XE for CICS on z/OS automatically detects and uses specialty IBM System z Integrated Information Processor (zIIP) processors when they are available; this reduces the charged Million Instructions Per Second (MIPS) consumption of the product. Tivoli OMEGAMON XE for CICS on z/OS uses zIIP to free up computing capacity and lower overall total cost for computing for select data and transaction processing workloads on System z. Additional capabilities include new improvements for operational control and management of the Tivoli OMEGAMON portfolio.

The IBM Tivoli OMEGAMON XE family leverages Tivoli Monitoring V6.2.3 and the new self-describing agent autonomic capability to remove the necessity for using application CDs to manually synchronize management servers and agents. A new installation methodology, based on Parmlib interactions, is introduced for the OMEGAMON family to provide a faster, more standards-based user interaction for upgrades or new installations.

Both of these infrastructure changes provide for a faster time-to-value, and reduce the Full Time Equivalent (FTE) time, and improve your total cost of ownership.

IBM Tivoli OMEGAMON Dashboard Edition V5.1

IBM Tivoli OMEGAMON Dashboard Edition V5.1 utilizes a common user interface capable of integrating information from any of the system or subsystem areas on a single workspace for in-depth analysis, composite alerts from multiple areas to quickly identify root problems, and actions to address problems, fostering greater communication for a more efficient way of managing the z/OS system and subsystems.

This capability can also be extended to any OMEGAMON or Tivoli Monitoring solution, as well as other IBM offerings, to create an efficient, enterprise-wide management center. This fosters an environment where IT hardware resources and personnel can be utilized more effectively.

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

The IBM Tivoli OMEGAMON XE on z/OS V5.1 products are capable as of March 09, 2012, 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 U.S. Section 508 Voluntary Product Accessibility Template (VPAT), containing details on the products accessibility compliance, can be requested at

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

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=212-041>

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 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://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

IBM Tivoli OMEGAMON XE on z/OS, V5.1

The overriding value of these Tivoli OMEGAMON XE releases is the introduction of a new architecture and enhanced 3270 user interface. The design of the interface uses Agile development process and was reviewed, critiqued, and modified by the customer subject matter experts to improve the ability to manage the z/OS and CICS systems of today.

The monitors for certain functions leverage zIIP processors, if available, to reduce resource consumption. This version delivers new functions, delivered as part of the infrastructure with IBM Tivoli Monitoring V6.2.3, namely the self describing agents, which use an automated synchronization between agents and servers as well as a new Parmgen methodology to improve a user's interaction with the day-to-day tasks to reduce their time dependencies with the products.

IBM Tivoli OMEGAMON CICS on z/OS, V5.1

The overriding value of Tivoli OMEGAMON releases of OMEGAMON XE on z/OS and OMEGAMON XE for CICS on z/OS is the introduction of a new architecture and enhanced 3270 user interface that uses the Agile development process was

reviewed, critiqued, and modified by customer subject matter experts to ensure the capability to manage the z/OS and CICS systems for today. The monitors for certain functions leverage zIIP processors, if available, to reduce resource consumption. V5.1 uses new functions delivered as part of the infrastructure with Tivoli Monitoring V6.2.3, which are the self-describing agents, which use an automated synchronization between agents and servers as well as a new Parmgen methodology to improve a user's interaction with the day-to-day to reduce their time dependencies with the products.

IBM Tivoli OMEGAMON Dashboard Edition for z/OS V5.1

The overriding value of Tivoli OMEGAMON Dashboard Edition for z/OS is that it provides an integrated workspace for Tivoli products and utilizes the Tivoli Enterprise Portal (TEP) to provide a consistent graphical interface. The design of the interface allows various end users from different domains (storage, operating systems, and networks) to utilize the same user interface and leverage information from multiple areas to manage their IT environment.

Statement of direction

In addition to IBM Tivoli OMEGAMON XE on z/OS and IBM Tivoli OMEGAMON XE on CICS, Tivoli intends to provide additional new V5.1 support, including IBM Tivoli Monitoring V6.2.3 on IBM Tivoli OMEGAMON XE for IMS™, IBM Tivoli OMEGAMON XE for Mainframe Networks, IBM Tivoli OMEGAMON for Messaging, IBM Tivoli OMEGAMON XE for DB2 Performance Expert (and Monitor) on z/OS, and IBM Tivoli OMEGAMON XE for Storage.

Tivoli plans to discontinue the Tivoli OMEGAMON II® agents and UIs commonly called Common User Access (CUA).

IBM plans to discontinue OMEGAVIEW, which is comprised of OMEGAMON II agents.

Tivoli OMEGAMON plans to discontinue Installation and Configuration Assistant Tool (ICAT) and use the Parmgen methodology as the strategic way to install and upgrade the Tivoli OMEGAMON family of products.

IBM Tivoli OMEGAMON XE for CICS on z/OS will remove Epilog functions from V5.1. A companion product that would provide improved reporting capability is IBM CICS Performance Analyzer for z/OS.

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 number	VRM	Program name
5698-T01	5.1	IBM Tivoli OMEGAMON XE on z/OS
5698-T07	5.1	IBM Tivoli OMEGAMON XE for CICS on z/OS
5698-T06	5.1	IBM Tivoli OMEGAMON Dashboard Edition on z/OS

Product identification number

Program PID number	Subscription and Support PID number
5698-T01	5608-S81
5698-T07	5608-S74
5698-T06	5608-S72

Education support

Comprehensive education for IBM Tivoli products is offered through Worldwide Tivoli Education Delivery Services. A wide range of training options are available, including classes led by instructors, learning on demand, on-site training, and blended learning solutions.

For additional information, visit

<http://www-306.ibm.com/software/tivoli/education/>

Offering Information

Product information is available via the Offering Information website

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

Publications

No publications are shipped with this program.

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 and software requirements

IBM Tivoli OMEGAMON XE on z/OS

Mandatory requisites:

- z/OS V1.11, V1.12, and V1.13
- IBM Tivoli Monitoring V6.2.3 for support of self-describing agents

IBM Tivoli OMEGAMON XE for CICS on z/OS

Mandatory requisites:

- z/OS V1.11, V1.12, and V1.13

One of the following:

- CICS/TS V3.1, or later
- IBM Tivoli Monitoring V6.2.3 for support of self-describing agents

IBM Tivoli OMEGAMON DE on z/OS

- z/OS V1.11, V1.12, and V1.13

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

Direct customer support

For technical support or assistance, contact your IBM representative or visit

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

Packaging

Tivoli OMEGAMON XE on z/OS V5.1, Tivoli OMEGAMON XE for CICS on z/OS V5.1, and Tivoli OMEGAMON DE for z/OS V5.1 are distributed with:

- International Program License Agreement (Z125-3301)
- License Information document
 - GI13-2208-00 - Tivoli OMEGAMON XE on z/OS V5.1
 - GI13-2213-00 - Tivoli OMEGAMON XE for CICS on z/OS V5.1
 - GI13-2211-00 - Tivoli OMEGAMON DE for z/OS V5.1
- Publications (refer to the [Publications](#) section)

Security, auditability, and control

IBM Tivoli OMEGAMON XE on z/OS V5.1, IBM Tivoli OMEGAMON XE for CICS on z/OS V5.1, and IBM Tivoli OMEGAMON DE for z/OS V5.1 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.

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/>

Licensing metric definitions

Engine

An engine is also referred to as a central processor (CP) or processor. Engines for traditional workloads are called General Purpose CPs. Engines for Linux™ workloads are called Integrated Facility for Linux (IFL) engines or Linux-only engines. Engines for Coupling Facility workloads are called Integrated Coupling Facility (ICF) engines.

IBM Integrated Facility for Linux (IFL)

This optional facility enables additional processing capacity exclusively for Linux workload, with no effect on the model designation of a System z or OS/390® server. Consequently, executing Linux workload on the IBM IFL will not, in most cases, result in any increased IBM software charges for z/OS, OS/390, VM, VSE, or TPF operating systems or applications. There is, as indicated, a charge associated with the IFL, and there may also be a charge for applications that run on the IFL.

The IFL may be dedicated to a single Linux-mode logical partition or it may be shared by multiple Linux-mode logical partitions. Installations should note that the Linux workspace enabled by this facility will not support any of the S/390® traditional operating systems (OS/390, TPF, VSE, or VM). Only Linux applications or Linux operating in conjunction with the Virtual Image Facility, an environment that operates within a logical partition or in native S/390 mode and provides the capability to create multiple Linux images, is supported by the IBM S/390 IFL

MSU

Millions of Service Units (MSU) is defined as millions of CPU service units per hour; the measure of capacity used to describe the computing power of the hardware processors on which S/390 or System z software runs. Processor MSU values are determined by the hardware vendor, IBM, or Software Compatible Vendors (SCVs).

For more detailed information about System z software pricing, go to

<http://www-03.ibm.com/systems/z/resources/swprice/>

Standby or backup systems

For programs running or resident on backup machines, IBM defines three types of situations: cold, warm and hot. In cold and warm situations, a separate entitlement for the copy on the backup machine is normally not required and typically no additional charge applies. In a hot backup situation, the customer needs to acquire other licenses or entitlements sufficient for that server. All programs running in backup mode must be solely under the customer's control, even if running at another enterprise's location.

As a practice, the following are definitions and allowable actions concerning the copy of the program used for backup purposes.

Cold: A copy of the program may reside, for backup purposes, on a machine as long as the program is not started. There is no additional charge for this copy.

Warm: A copy of the program may reside for backup purposes on a machine and is started, but is idling, and is not doing any work of any kind. There is no additional charge for this copy.

Hot: A copy of the program may reside for backup purposes on a machine, is started, and is doing work. The customer must acquire a license or entitlement(s) for this copy and there will generally be an additional charge.

Doing work includes, for example, production, development, program maintenance, and testing. It also could include other activities such as mirroring of transactions,

updating of files, synchronization of programs, data, or other resources (for example, active linking with another machine, program, database or other resource, and so on), or any activity or configurations that would allow an active hot switch or other synchronized switch-over between programs, databases, or other resources to occur.

In the case of a program or system configuration that is designed to support a high availability environment by using various techniques (for example, duplexing, mirroring of files or transactions, maintaining a heartbeat, active linking with another machine, program, database, or other resource), the program is considered to be doing work in the hot situation and a license or entitlement must be obtained.

Value Units

A Value Unit (VU) is a unit of measure by which the program can be licensed. Value Unit entitlements are based on the quantity of a specific designated measurement, for example MSUs, users, engines, tape drives, for the given software. Licensee must obtain sufficient entitlements for the number of Value Units required for licensee's environment as specified in the specific program terms. The Value Unit entitlements are specific to the program and may not be exchanged, interchanged, or aggregated with other Value Unit entitlements of another program.

Pricing examples

System z software pricing examples (MSU based)

The pricing example below should be used to determine required license entitlements for the following System z software products:

- IBM Tivoli OMEGAMON XE on z/OS

System z server:

1,500 MSU System z server

All products in this example employ Value Unit slope VUE007 (VUE = Value Value Unit Exhibit). If the customer has installed 1,500 MSUs, the applicable number of Value Units will be:

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 rounded up to the next integer. So the customer will need to license 344 Value Units in this example.

Value Units for non-MSU-based S/390 processors:

System	Value Units/System
MP3000 H30	6
MP3000 H50	8
MP3000 H70	12
ESL Models	2

Value Units for IBM 9672 processors are based upon the full capacity of these systems. This is applicable to all System z systems measured on MSU capacity. Information on MSU capacities can be found in the IBM System/370, System/390® and System z Machine Exhibit, Z125-3901.

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>

Sub-capacity for selected middleware products

<http://www.ibm.com/software/lotus/passportadvantage/subcaplicensing.html>

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

Program number	Program name	Value Unit exhibit
5698-T01	Tivoli OMEGAMON XE on z/OS V5.1	VUE007
5698-T07	Tivoli OMEGAMON XE on CICS on z/OS V5.1	
5698-T06	Tivoli OMEGAMON DE for z/OS V5.1	

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

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

Value Units for mainframes without MSU ratings:

Hardware	Value Units/machine
MP3000 H30	6
MP3000 H50	8
MP3000 H70	12
ESL models	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 System z 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.

Current licensees

New licensees

Orders for new licenses will be accepted now.

Shipment will begin on the planned availability date.

Basic license

Ordering information for 5698-T01, 5698-T07, and 5698-T06-MSU-based System z offerings

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 Tivoli OMEGAMON XE on z/OS V5.1
 Program PID: 5698-T01

Entitlement identifier	Description	License option/ Pricing metric
S016ZVS	IBM Tivoli OMEGAMON XE on z/OS V5.1	Basic OTC, per Value Unit Basic OTC, per MSU-day TUC
Orderable supply ID	Language	Distribution medium
S016ZVT	Multilingual	3590 tape

Program name: IBM Tivoli OMEGAMON XE for CICS on z/OS V5.1
 Program PID: 5698-T07

Entitlement identifier	Description	License option/ Pricing metric
S016ZVN	IBM Tivoli OMEGAMON for CICS on z/OS V5.1	Basic OTC, per Value Unit Basic OTC, per MSU-day TUC
Orderable supply ID	Language	Distribution medium
S016ZVP	Multilingual	3590 tape

Program name: Tivoli OMEGAMON DE for z/OS V5.1
 Program PID: 5698-T06

Entitlement identifier	Description	License option/ Pricing metric
S016ZVW	IBM Tivoli OMEGAMON DE for	Basic OTC, per Value Unit

z/OS

Basic OTC, per MSU-day TUC

Orderable supply ID	Language	Distribution medium
SS016ZVX	Multilingual	3590 tape

Subscription and Support PID: 5608-S81

Entitlement identifier	Description	License option/ Pricing metric
S011KX1	IBM Tivoli OMEGAMON XE on z/OS V5.1 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
S011KX2	Multilingual	Hardcopy publication

Subscription and Support PID: 5608-S74

Entitlement identifier	Description	License option/ Pricing metric
S011KWH	IBM Tivoli OMEGAMON XE for CICS 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
S011KWJ	Multilingual	Hardcopy publication

Subscription and Support PID: 5608-S72

Entitlement identifier	Description	License option/ Pricing metric
S011KWT	IBM Tivoli OMEGAMON DE 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
S011KWV	Multilingual	Hardcopy publication

Subscription and Support

Subscription and Support must be ordered to receive voice technical support via telephone during normal business hours, and future releases and versions, at no additional charge. The capacity of Subscription and Support (for example, Processor Value Units or terabytes) must be the same as the capacity ordered for the product licenses.

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- 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.

Customized Offerings

Product deliverables are shipped only via CBPDO, ServerPac, SystemPac®.

CBPDO and ServerPac 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 ShopzSeries 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 for CBPDO, ServerPac, and SystemPac, include:

- 3590
- 3592

Most products can be ordered in ServerPac and SystemPac the month following their availability on CBPDO. z/OS can be ordered via all three offerings at general availability. 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
- SystemPac shipments will begin four weeks after general availability due to additional customization, and data input verification.

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).

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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 System z Operational Support Services - SoftwareXcel is an option if you desire added services.

License Information form number

- GI13-2208-00 - IBM Tivoli OMEGAMON XE on z/OS V5.1
- GI13-2213-00 - IBM Tivoli OMEGAMON XE for CICS on z/OS V5.1
- GI13-2211-00 - IBM TIVOLI OMEGAMON DE for z/OS V5.1

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.

Other terms

Volume orders (IVO)

No

IBM International Passport Advantage Agreement

Passport Advantage applies

No

Usage restriction

Yes. For additional information, refer to the License Information document that is available on the IBM Software License Agreement website

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

Software Subscription and Support applies

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

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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.

IBM Operational Support Services - SoftwareXcel

Yes

System i Software Maintenance applies

Yes

Variable charges apply

No

Educational allowance available

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

Sub-capacity terms and conditions

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

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

Program number	Program name	Parent, if applicable
5698-T01	IBM Tivoli OMEGAMON XE on z/OS	z/OS based
5698-T07	IBM XE for OMEGAMON XE for CICS on z/OS V5.1	reference based
5698-T06	IBM Tivoli OMEGAMON DE for z/OS V5.1	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 System z IPLA program with these terms equals the MSU-rated capacity of the machines where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, visit

<http://www-1.ibm.com/servers/eserver/zseries/library/swpriceinfo/>

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

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

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

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

<http://ibm.com/zseries/library/swpriceinfo/>

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

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

When a System z IPLA sub-capacity program with reference-based terms is used in a qualified Parallel Sysplex environment, the required license capacity of the System z 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 System z 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 System z (or equivalent). On that machine:

- All instances of the OS/390 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® (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 System z Software Pricing website

<http://ibm.com/zseries/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 System z Workload License Charges (Z125-6516).
- The complete terms and conditions for sub-capacity EWLC are defined in the IBM Customer Agreement - Attachment for IBM System z 890 and 800 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 IBM System z9® and System z Programs Sub-Capacity Pricing* (Z125-6929). Once the amendment is signed, the terms in the amendment replace any and all previous System z IPLA sub-capacity terms and conditions.

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 System z On/Off Capacity on Demand (Z125-7883) must be signed prior to use.

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 System z ((or equivalent) server).

Sub-capacity utilization is determined based on the utilization of a sub-capacity eligible reference product and machine.

IBM Electronic Services

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a web-enabled

solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

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

Prices

Information on charges is available at website

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