



This family of Tivoli OMEGAMON z/OS products is the next evolution in IBM Tivoli OMEGAMON performance and availability solutions

Overview

The IBM Tivoli® OMEGAMON® family of products are designed to deliver stable, comprehensive, and proactive monitoring and management capabilities, in a single integrated view. These new releases provide a number of new capabilities and enhancements that help simplify the suite of Tivoli solutions and also help provide extensive integration that can assist you with optimizing the time and costs associated with avoiding or isolating, analyzing, and resolving IT incidents.

A new common Tivoli monitoring services infrastructure will be available that supports mainframe and distributed monitoring functionality, including a single and powerful Tivoli Enterprise™ Portal as the user interface for all monitoring products. New capabilities in a number of z/OS® OMEGAMON products that are designed to enhance the efficiency and overall effectiveness of these solutions that provide the end-to-end management solution.

This announcement includes information on the following products:

- IBM Tivoli OMEGAMON XE on z/OS 3.1.0
- IBM Tivoli OMEGAMON XE for IMS™ on z/OS 3.1.0
- IBM Tivoli OMEGAMON XE for DB2® Performance Expert on z/OS 3.1.0
- IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS 3.1.0
- IBM Tivoli OMEGAMON XE for Mainframe Networks 3.1.0
- IBM Tivoli OMEGAMON XE for Storage on z/OS 3.1.0
- IBM DB2 Buffer Pool Analyzer on z/OS V3.1.0

These z/OS OMEGAMON products also support the IBM IT Service Management solutions through focused monitoring and management of all the critical resources associated with key business

applications. Integrating these capabilities with effective event and incident management processes can improve the overall availability of IT service delivery.

With the 3.1.0 releases of OMEGAMON XE on z/OS, OMEGAMON XE for DB2 Performance Expert z/OS, OMEGAMON XE for DB2 Performance Manager on z/OS and OMEGAMON XE for IMS on z/OS, the components OMEGAVIEW® 3270 and OMEGAVIEW II® for the Enterprise are no longer required and will not be included in the XE on z/OS, DB2 PE, DB2 Performance Manager and IMS product shipments. Licensed customers of OMEGAVIEW 3270 and OMEGAVIEW II for the Enterprise can still get these components by ordering OMEGAMON DE on z/OS.

Refer to Software Announcement 205-149, dated June 21, 2005.

Key prerequisites

Refer to the **Software requirements** section.

Planned availability dates

- November 25, 2005
 - IBM Tivoli OMEGAMON XE on z/OS V3.1.0
 - IBM Tivoli OMEGAMON XE for Storage on z/OS V3.1.0
 - IBM Tivoli OMEGAMON XE for Mainframes Network V3.1.0
 - IBM Tivoli OMEGAMON XE for IMS on z/OS V3.1.0
- December 16, 2005
 - IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS V3.1.0
 - IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS V3.1.0
 - IBM DB2 Buffer Pool Analyzer on z/OS V3.1.0

At a glance

- Simplification of product portfolio
- Integrating the OMEGAMON products into the IBM z/OS ordering and installation process
- Continued migration of key OMEGAMON II® features into OMEGAMON XE functionality
- Day one support for z/OS V1.7
- Enhanced z/OS system CPU utilization and zSeries® Application Assist processor usage and reporting
- Extended IMS Transaction Reporting Facility functionality and reporting
- IMS Open Transaction Manager Access
- DB2 z/OS V8.1 exploitation
- DB2 Connect® monitoring and transplexing
- Network data collection through the z/OS Communications Server Network Management Interfaces
- Enhanced TCP/IP and SNA performance reporting
- Storage dataset masking functionality for extended dataset mask group capabilities and ease of use

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL

Reference: YE001

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: <http://www.ibm.com>.

Description

IBM Tivoli OMEGAMON XE on z/OS V3.1.0

IBM Tivoli OMEGAMON XE on z/OS provides comprehensive performance information covering Sysplex level components, such as Workload Manager, Coupling Facility, Cross System Coupling Facility, Global Enqueue, and shared DASD as well as detailed system level information. IBM Tivoli OMEGAMON XE on z/OS V3.1.0 integrates OMEGAMON XE for Sysplex, OMEGAMON XE for OS/390®, and OMEGAMON XE for IBM Cryptographic Coprocessors into a single product. This product will include all the functionality of the three products plus new capabilities.

The new release of IBM Tivoli OMEGAMON XE on z/OS 3.1.0 includes:

- Migration of key features from the previous OMEGAMON II for MVS™ product into the OMEGAMON XE on z/OS product, including detailed CSA usage by address space and Inspect functionality
- Address space-level CPU usage times and percentages
- Enhanced system CPU utilization reporting
- Enhanced zSeries Application Assist Processor (zAAP) processor usage and repo

IBM Tivoli OMEGAMON XE for IMS on z/OS V3.1.0

The IBM Tivoli OMEGAMON XE for IMS on z/OS is a powerful management tool to help you optimize the performance and availability of your vital IMS systems. It provides a single point of control over IMS in parallel Sysplex environments and reports on performance of coupling facility structure statistics, shared queue counts, database lock conflicts, and a number of other key IMS attributes that help you stay ahead of potential delays or outages.

The new IBM Tivoli OMEGAMON XE for IMS 3.1.0 release combines the functions offered by OMEGAMON XE for IMS and OMEGAMON XE for IMSplex into a single product.

Additional functionality includes:

- Lock table enhancements for additional owner and identification information
- Extended TRF and TRF Extractor functionality and reporting
- OTMA extensions and COLD queue reporting
- Shared Queues extensions
- IMS Connect CPU-time statistics

IBM Tivoli OMEGAMON XE for Storage on z/OS V3.1.0

IBM Tivoli OMEGAMON XE for Storage on z/OS is the comprehensive monitor for z/OS I/O sub-system performance and storage availability. IBM Tivoli OMEGAMON XE for Storage is designed to manage the performance and availability of mainframe attached storage including DASD and tape devices, and the datasets that reside on them. It also features in-depth analysis of two important IBM storage software components: Data Facility Systems Managed Storage, which manages the service levels and priorities of data sets based on user-created storage goals; and Data

Facility Hierarchical Storage Manager, which manages backup of data based on usage patterns.

Additional functionality in the OMEGAMON for Storage on z/OS V3.1.0 release includes exploitation of the new IBM DS6000 and DS8000 storage devices and dataset masking functionality for dataset mask group capabilities and ease of use.

IBM Tivoli OMEGAMON XE for Mainframe Networks V3.1.0

IBM Tivoli OMEGAMON XE for Mainframe Networks is used to monitor the TCP/IP and SNA resources on a z/OS system. OMEGAMON XE for Mainframe Networks collects network performance data from a z/OS system and presents the information through the Tivoli Enterprise Portal. Alerts are raised within the user interface and/or exported to event receiving products (for example, Tivoli Event Console or NetView® for z/OS) when a product- or customer-defined situation evaluates to true.

The IBM Tivoli Monitoring for Network Performance and the IBM Tivoli OMEGAMON XE for Mainframe Networks V3.1.0 products will begin convergence to a single product: IBM Tivoli OMEGAMON XE for Mainframe Networks V3.1.0. The packaging for this new OMEGAMON XE for Mainframe Networks release will contain the Network Performance Monitor V2.7 (NPM) product for those customers that continue to use this SNA product. Functionality in this new release includes:

- Data collection through the z/OS Communications Server Network Management Interfaces (NMI) plus continuation of some data collection through SNMP for more efficient collection
- IP performance data equivalent to the IBM Tivoli Monitoring for Network Performance V2.1 product and a superset of SNA performance data
- Initial integration and interoperability with NetView for zSeries 5.2
- Ability to enable or disable collection of categories of data through product configuration and dynamically through a z/OS MODIFY command

OMEGAMON XE for DB2 Performance Expert on z/OS V3.1.0 and OMEGAMON XE

For DB2 Performance Monitor on z/OS V3.1.0: Two new products representing the convergence of the industry's leading performance management products for DB2 on z/OS will be available:

- Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS V3.1.0
- Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS V3.1.0

Both of these products merge the power of IBM Tivoli OMEGAMON XE for DB2 on z/OS with IBM DB2 Performance Expert, and DB2 Performance Monitor.

The Tivoli OMEGAMON XE or DB2 Performance Expert on z/OS includes both the DB2 Performance Monitor on z/OS, the DB2 Buffer Pool Analyzer on z/OS, and additional expert analysis functions.

OMEGAMON brings its world renowned real-time DB2 monitoring into partnership with the performance reporting capability of DB2 Performance Expert and DB2 Performance Monitor. The OMEGAMON product family, which includes OMEGAMON XE and OMEGAMON DE, adds the enterprise-wide integration capabilities to create

unparalleled cross-platform management of mission-critical relational databases.

The first of these products merges the functions offered by OMEGAMON XE for DB2 and DB2 Performance Expert into a single tool. The second product merges the functions offered by OMEGAMON XE for DB2 and DB2 Performance Monitor into another separately available tool offering you the flexibility to choose the option best suited to your requirements. The first release of OMEGAMON XE for DB2 Performance Expert on z/OS (and OMEGAMON XE DB2 Performance Monitor on z/OS) provides for easy migration for both OMEGAMON and DB2 Performance Expert and DB2 Performance Monitor customers by using familiar OMEGAMON and DB2 Performance Expert and DB2 Performance Monitor interfaces while merging the performance data collection logic into a single engine (server). Installation and configuration are implemented by a single configuration tool, the same tool that supports all OMEGAMON configuration, enabling easy integration with the entire IBM Tivoli OMEGAMON systems management portfolio.

In addition, to complete IBM DB2 z/OS V8.1 support, DB2 Connect monitoring is introduced via the OMEGAMON XE Tivoli Enterprise Portal and the 3270 classic interface in the V3.1.0 release of these products. Additional functionality added in this release includes SAP and PeopleSoft support for extended identification fields such as End-user id, Transaction id, and Workstation id. Utilizing the power of OMEGAMON Dashboard Edition, both OMEGAMON XE for DB2 PE and OMEGAMON XE for DB2 Performance Monitor enable end-to-end or Transplex® monitoring. This synergy possible to monitoring of a unit-of-work or transaction throughout the managed enterprise for CICS® transactions.

Trade-ups are available to:

- Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V3 from DB2 Performance Expert on z/OS, V2 (5655-J49) and/or Tivoli OMEGAMON XE for DB2 on z/OS V4 (5655-CXE)
- Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V3 from DB2 Performance Monitor for z/OS, V8 (5655-J50) and/or Tivoli OMEGAMON XE for DB2 on z/OS (5655-CXE)

Refer to the **Ordering information** and **Terms and conditions** sections for details.

DB2 Buffer Pool Analyzer on z/OS V3.1.0

This new version of DB2 Buffer Pool Analyzer on z/OS V3.1.0 will be available in parallel to the new product Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS V3.1.0 where the same buffer pool analysis functions are integrated and shipped together with the DB2 monitoring and reporting functions.

The DB2 Buffer Pool Analyzer provides the following support and functions:

- Data collection of virtual buffer pool activity via the DB2 IFI interface
- Comprehensive reporting of the buffer pool activity, including:
 - Ordering by various identifiers (for example, buffer pool, plan, object, primary authorization id)
 - Sorting by, for example getpage, sequential prefetch, and synchronous read
 - Filtering capability

- Loading into DB2 tables
- Simulation of buffer pool usage for:
 - Varying buffer pool size
 - Different object placement
- Display of report and simulation results on workstation in form of spreadsheets, graphs, and diagrams

Beside the synchronization with the new Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, it comes with improvements in the run time of the simulation, in saving of only active object details into DB2 tables, and supporting and saving of partition numbers in the DB2 tables.

Value Unit-based pricing

Value Unit pricing for eligible zSeries IPLA programs enables a lower cost of incremental growth and enterprise aggregation. Each zSeries 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 customers. For each zSeries 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 offers additional price benefits for customers. The quantity of each zSeries IPLA program that you have acquired is referred to as "entitled license capacity." If you wish to grow your entitled license capacity for a zSeries IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each zSeries 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 Web site

<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 zSeries IPLA program you selected, refer to the **Terms and conditions** section.

IPLA and Subscription and Support considerations

IPLA licenses can be transferred from one machine to another within, but not limited to an enterprise. The customer may aggregate the capacity for all the processors the product is operated on to achieve a more economic price. This will result in a single Proof of Entitlement. It is the customer's responsibility to manage the distribution of Value Units within the limits of the entitlement of the product license.

Subscription and Support must cover the same capacity as the product license entitlement. Subscription and Support will be available in the country in which the agreement is made.

Product positioning

Today's data centers are confronted with whole new levels of infrastructure complexity, transaction volume, and workload fluctuation. IT infrastructures have become burdened with disparate platforms and application stacks and are piled high with application servers, operating systems, networks, network protocols, and more. The sheer number of disparate IT resources in today's infrastructures, combined with their nearly endless combinations, makes it exceedingly difficult to track the performance of transactions and applications across a complex enterprise. Effective and efficient end-to-end systems management is required to anticipate, identify, isolate, and resolve an issue before it becomes a problem for customers.

End-to-end performance management requires management solutions from the back-end mainframe systems, through the maze of distributed servers and networks out to the desk tops. IBM Tivoli products provide a market leading family of solutions to manage this infrastructure complexity. The new release of IBM Tivoli Monitoring V6.1, described in a separate announcement, is the foundation for integrating mainframe, distributed systems, and applications as well as the Tivoli Enterprise Console® through the Tivoli Enterprise Portal, providing a single user interface and single point of control for enterprise wide performance monitoring and management.

The IBM Tivoli OMEGAMON management products on z/OS, Linux™ on zSeries, CICS, DB2, IMS, Mainframe Networks, and Storage provide market leading performance and system management functionality. This family of performance management offerings provide market leading capabilities, easy-to-use functionality through a common user interface, personalized workspaces, expert advice, and powerful features such as dynamic integration linking, take action, and policy workflow automation. IBM Tivoli Monitoring V6.0 products extend this end-to-end management coverage to distributed systems, databases, virtual servers, and applications.

All of these end-to-end management capabilities are extended even further with the recent introduction of the WebSphere® Studio Application Monitor V3.2 family of products and the IBM Tivoli OMEGAMON XE for WebSphere Business Integration V1.1. These products provide a cross-platform, single-console application management solution for Java™ 2 Platform Enterprise Edition (J2EE) applications, WebSphere MQ, WebSphere Business Integration Message Broker, and WebSphere InterChange Server.

Increasingly, businesses expect IT departments to deliver IT services in alignment with their business goals. This has compelled IT to become more on demand in overcoming the challenges of complexity, change, compliance, and costs. Managing IT processes end to end helps companies keep people and IT resources focused on business priorities. The IBM IT Service Management offerings can provide improved IT service delivery through the integration of management products and IT processes.

The z/OS OMEGAMON products contained in this announcement also support the IBM IT Service Management solutions through focused monitoring and management of all the critical resources associated with key business applications. Integrating these capabilities with effective event and incident management processes can improve the overall availability of IT service delivery.

IBM On Demand Automation solutions help provide business operations' continuity. All of the IBM Tivoli OMEGAMON products support the on demand capabilities by not only identifying and fixing problems when disruptions occur, but also proactively address potential threats before they impact the business. Features, such as the OMEGAMON XE, take action and OMEGAMON DE policy workflow automation directly contribute to the IBM autonomic blueprint. The IBM Tivoli OMEGAMON products are part of the foundation for responding flexibly to internal and external changes, and help streamline business operations while dynamically aligning your IT resources with your business priorities.

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 205-237

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=205-237>

Trademarks

Tivoli Enterprise, IMS, and MVS are trademarks of International Business Machines Corporation in the United States or other countries or both.

OMEGAMON, Tivoli, z/OS, DB2, OMEGAVIEW, OMEGAVIEW II, OMEGAMON II, zSeries, DB2 Connect, OS/390, NetView, Transplex, CICS, Tivoli Enterprise Console, and WebSphere are registered trademarks of International Business Machines Corporation in the United States or other countries or both.

Java is a trademark of Sun Microsystems, Inc.

Linux is a trademark of Linus Torvalds in the United States, other countries or both

Other company, product, and service names may be trademarks or service marks of others.



IBM US Announcement Supplemental Information

September 27, 2005

Education support

Training is available or will be available for IBM Tivoli® products. Education is offered through IBM Global Services — IT Education Services and through IBM Tivoli Software Authorized Training Providers.

For current information on IBM Tivoli software education, visit the IBM Tivoli software education Web page at

<http://www-3.ibm.com/software/tivoli/education>

Current schedule information for IBM Tivoli training is available on the IBM Tivoli software education schedules Web page at

<http://www-3.ibm.com/software/tivoli/education/schedules>

Offering information

Product information is available via the Offering Information Web site

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

Publications

The following hardcopy publications will be shipped with the basic machine-readable material for each of the products:

Title	Form number
Using OMEGAMON® Products: CandleNet® Portal	GC32-9182
Administering OMEGAMON Products: CandleNet Portal®	GC32-9180
Historical Data Collection Guide for IBM Tivoli OMEGAMON XE Products	GC32-9429
Installing and Setting Up OMEGAMON Platform and Candlenet Portal on Windows™ and UNIX®	SC32-1768
Configuring IBM Tivoli Candle® Management Server on z/OS®, Version 360	GC32-9414
IBM Tivoli Candle Product Messages, Volume 1	SC32-9416
IBM Tivoli Candle Product Messages, Volume 2	SC32-9417
IBM Tivoli Candle Product Messages, Volume 3	SC32-9418
IBM Tivoli Candle Product Messages, Volume 4	SC32-9419
IBM Tivoli Candle Product Messages, Volume 5	SC32-9420

The publications listed below can be downloaded from the following Web site after the planned availability date.

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: <http://www.ibm.com>.

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

Product name: IBM Tivoli OMEGAMON XE
on z/OS V3.1.0

Title	Form number
Getting Started with IBM Tivoli OMEGAMON XE on z/OS V3.1.0	SC32-9491
Configuring IBM Tivoli OMEGAMON XE on z/OS V3.1.0	SC32-9364
Using IBM Tivoli OMEGAMON XE on z/OS V3.1.0	GC32-9209
IBM Tivoli OMEGAMON XE on z/OS Release Notes V3.1.0	GI11-4038
OMEGAMON II® for MVS™ Configuration and Customization Guide V5.5.0	GC32-9277
OMEGAMON II for MVS User's Guide, V5.5.0	GC32-9280
OMEGAMON II for MVS Command Language Reference Manual, V5.5.0	GC32-9276
EPILOG® for MVS Command Language Reference Manual, V5.5.0	GC32-9265
IBM Tivoli End-to-End Response Time Feature (ETE®) Reference Manual, v5.5.0 SC32-9376-00	
IBM Tivoli C76OMEGAMON XE on z/OS Program Directory	GI11-4081

Product name: IBM Tivoli OMEGAMON XE
for Storage on z/OS V3.1.0

Title	Form number
OMEGAMON II for SMS Administrator's Guide	GC32-9281
Configuring IBM Tivoli OMEGAMON XE for Storage on z/OS and OMEGAMON II for SMS	SC32-9371
IBM Tivoli OMEGAMON XE for Storage on z/OS: Getting Started	SC32-9411
Tuning IBM Tivoli OMEGAMON XE for Storage on z/OS and OMEGAMON II for SMS	SC32-9396
Using IBM Tivoli OMEGAMON XE for Storage on z/OS and OMEGAMON II for SMS	SC32-9470
IBM Tivoli OMEGAMON XE for Storage on z/OS: Release Notes	GI11-4036
IBM Tivoli OMEGAMON XE for Storage Program Directory	GI11-4079

Product name: IBM Tivoli OMEGAMON XE for IMS™ on z/OS V3.1

		Title	Form number
		OMEGAMON II for Mainframe Networks Historical Reporting Guide	GC32-9273
Getting Started with IBM Tivoli OMEGAMON XE for IMS on z/OS	SC32-9469-00	OMEGAMON II for Mainframe Networks NCP Monitoring Guide	GC32-9272
Configuring IBM Tivoli OMEGAMON XE for IMS on z/OS	SC32-9354	IBM Tivoli End-to-End Response Time Feature Reference Manual	SC32-9376
Using IBM Tivoli OMEGAMON XE for IMS on z/OS	GC32-9351	IBM Tivoli OMEGAMON XE for Mainframe Networks Program Directory	GI11-4078
IBM Tivoli OMEGAMON XE for IMS on z/OS Release Notes	GI11-4037		
IBM Tivoli OMEGAMON II for IMS User's Guide (304 pgs)	GC32-9355		Form number
IBM Tivoli OMEGAMON II for IMS Configuration and Customization Guide (308 pgs)	SC32-9356	Title	
IBM Tivoli OMEGAMON II for IMS Console Facility (164 pgs)	SC32-9357	Getting Started Migration Information for OMEGAMON XE for DB2® User	GC18-9634 GC18-9635
IBM Tivoli OMEGAMON II for IMS Transaction Reporting Facility (120 pgs)	SC32-9358	Migration Information for DB2 Performance Expert and DB2 Performance Monitor Uses Configuration and Customization Messages	SC18-9636
IBM Tivoli OMEGAMON II for IMS Bottleneck Analysis Reference Manual (114 pgs)	SC32-9359	Monitoring Performance from ISPF Monitoring Performance from Performance Expert Client	SC18-9637 GC18-9638
IBM Tivoli OMEGAMON II for IMS Historical Component (EPILOG) Reference Manual	SC32-9360	Reporting User's Guide Report Reference Report Command Reference	GC18-9639 SC18-9640
IBM Tivoli OMEGAMON II for IMS Historical Component (EPILOG) User's Guide (80 pgs)	GC32-9361	Buffer Pool Analyzer User's Guide Buffer Pool Analyzer Configuration Guide	SC18-9641 SC18-9642
IBM Tivoli OMEGAMON II for IMS Realtime Commands Reference Manual (478 pgs)	SC32-9362	Monitoring Performance from the OMEGAMON XE Client	SC18-9643 SC18-9644 SC18-9645 SC18-9646
IBM Tivoli OMEGAMON II for IMS Response Time Analysis (RTA) Reference Manual (92 pgs)	SC32-9363	Monitoring Performance from the OMEGAMON Classic Interface	SC18-9659
IBM Tivoli OMEGAMON II for IMS Application Trace Facility	SC32-9470	Program Directory Buffer Pool Analyzer Program Directory OMEGAMON Performance Expert	GI10-8697 GI10-8698
End-to-End Response Time Feature (ETE) Reference Manual	SC32-9376	Program Directory OMEGAMON Performance Monitor License Information Buffer Pool Analyzer	GI10-8699 GC18-9660
IBM Tivoli OMEGAMON XE for IMS on z/OS Program Directory	GI11-4077	License Information OMEGAMON Performance Expert License Information OMEGAMON Performance Monitor	GC18-9661 GC18-9662

Program name: IBM Tivoli OMEGAMON XE for Mainframe Networks V3.1.0

Title	Form number	
		The IBM Publications Center http://www.ibm.com/shop/publications/order
IBM Tivoli OMEGAMON XE for Mainframe Networks: Getting Started	GC32-9402	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 U.S.) or customer number for 50 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.
IBM Tivoli OMEGAMON XE for Mainframe Networks: Messages	GC32-9481	
Using IBM Tivoli OMEGAMON XE for Mainframe Networks	SC32-9405	
Configuring IBM Tivoli OMEGAMON XE for Mainframe Networks	SC32-9403	
Configuring OMEGAMON II for Mainframe Networks	SC32-9404	
IBM Tivoli OMEGAMON XE for Mainframe Networks: Release Notes	GI11-4070	The IBM Publications Notification System (PNS) enables subscribers to set up profiles of interest by order number/product number. PNS subscribers automatically receive e-mail notifications of all new publications defined in their profiles. These may then be ordered/downloaded from the Publications Center
OMEGAMON II for Mainframe Networks User's Guide	GC32-9274	http://service5.boulder.ibm.com/pnsrege.nsf/messages/welcome

The site is available in English and Canadian French.

Technical information

Specified operating environment

Hardware requirements: These products can be deployed on any z/OS system that is capable of running z/OS V1.4, or higher.

Software requirements: Versions of all the required products are provided in the product package. However, if you already have a supported version of an OMEGAMON product installed in your enterprise, you can use the currently installed product.

The following levels of platform components are required to install and use the OMEGAMON zSeries® Monitoring products:

- For the warehouse proxy and Candle Data Warehouse, Microsoft™ SQL Server V7.0 or Microsoft SQL Server 2000 with fix pack 3
- If you are running the Tivoli Enterprise™ Portal desktop client, any version of Sun Java™ version 1.3.1_04 through v.1.4.2_07 (excluding the 1.4.0 and 1.4.1 versions)
- If you are running the Tivoli Enterprise Portal browser Client, Internet Explorer V6, or higher with the Java Plug-in (at the same Java release levels as above)

Product name	Hardware requirements	Software requirements
IBM Tivoli OMEGAMON XE on z/OS		MANDATORY REQUISITES: Any one of the following: 5694-A01 z/OS V1.4 5694-A01 z/OS V1.5 5694-A01 z/OS V1.6 with APAR OA09046
IBM Tivoli OMEGAMON XE for Storage on z/OS		MANDATORY REQUISITES: Anyone of the following: 5694-A01 z/OS V1.4 5694-A01 z/OS V1.5 5694-A01 z/OS V1.6 with APAR OA09046

Product name	Hardware requirements	Software requirements
IBM Tivoli OMEGAMON XE for Mainframe Networks	Hardware requirements specific to OMEGAMON XE for Mainframe Networks Requirements for OSA-Express adapters: Tivoli OMEGAMON XE for Mainframe Networks enables you to monitor the performance of the OSA adapters in your environment. Either OSA/SF or OSA Express Direct SNMP must be configured and running in order to collect OSA statistics. To support the latest version of the OSA Express MIB, the Licensed Internal Code (LIC) levels of the OSA-Express adapters must meet the following criteria:	MANDATORY REQUISITES Any one of the following: 5694-A01 z/OS V1.4 with APARs II13699, OA04394, PQ74292, PQ77244, PQ77633, OSAPQ77837, PQ77838 PQ77840, PQ78753 PQ79583, PQ81716, PQ83920, PQ84072, PQ92481 5694-A01 z/OS V1.5 with APARs PQ78753, PQ79949, PQ81716 5694-A01 z/OS V1.6 with APAR OA09046

Product name	Hardware requirements	Software requirements
	<p>— If you are running the OSA module on an IBM eServer® zSeries 900, or later or 800 system, you must have a LIC version of 3.33, or higher, installed.</p> <p>— If you are running the OSA module on an 990 processor, all LIC levels are supported.</p>	<p>CONDITIONAL REQUISITES: 5648-063 NCP 7.08.1</p>

Product name	Hardware requirements	Software requirements
IBM Tivoli OMEGAMON XE for IMS on z/OS		<p>MANDATORY REQUISITES Any one of the following: 5694-A01 z/OS V1.4 5694-A01 z/OS V1.5 5694-A01 z/OS V1.6 with APAR OA09046</p> <p>CONDITIONAL REQUISITES One or more of the following: 5665-C56 IBM IMS V8.1 with APAR PQ98680 5665-J38 IBM IMS V9.1 with APAR PQ99399 5697-E93 CICS® Transaction Server for z/OS V2.2, or later</p>

Product name	Hardware requirements	Software requirements
IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS	The products in this specification will operate on any hardware configuration that supports the required versions of DB2 and IMS	<p>MANDATORY REQUISITES Any one of the following: 5694-A01 z/OS V1.4 5694-A01 z/OS V1.5 5694-A01 z/OS V1.6 with APAR OA09046</p>
and		and
IBM Tivoli OMEGAMON XE for DB2 Performance on z/OS		<p>5675-DB2 DB2 V7, or later</p> <p>— Depending on which online monitor you use VTAM®, ISPF, Microsoft Windows 2000 or Microsoft Windows XP is needed.</p>

**Product
name**

**Hardware
requirements**

**Software
requirements**

— If you want to use the Performance Warehouse or SQL Activity Tracing the DB2 Runtime Client V8 or any other DB2 product, including the DB2 Runtime Client (for example, DB2 Connect®, DB2 UDB) is needed. In addition, in case you want to use Visual Explain, the DB2 Administration Client V8, or later or any other DB2 UDB V8, or

— If you want to monitor DB2 Connect the DB2 Connect Enterprise Edition or DB2 Connect Unlimited Edition V8, or later, is needed for the Performance Expert Agent. The following operating systems are supported:
AIX®, V5.1,
or later
HP-UX, V11i, or later
Sun Solaris V8, or later
Linux™
Kernel V2.4.10,
or later
Windows 2000 SP2®,
Windows XP.
Using the OMEGAMON XE Web client the Tivoli Enterprise Portal Server former CNPS requires:
Java RTE 1.5.0
The Tivoli Enterprise Portal, former CNP, requires
Java RTE 1.3.1_04
Additional IBM software supported:

If installed, OMEGAMON XE for DB2 Performance Monitor/Expert on z/OS Version 3.1.0 supports the following product versions:
IMS 7.1, 8.1, 9.1
CICS 2.2, 2.3

Product name

IBM
DB2 Buffer
Pool
Analyzer
on z/OS

Hardware requirements**Software requirements**

MANDATORY REQUISITES
Any one of the following:
5694-A01 z/OS V1.4
5694-A01 z/OS V1.5
5698-A01 z/OS V1.6
with APAR OA09046

Planning information

Direct customer support: Direct customer support is provided by IBM Operational Support Services — SoftwareXcel. This fee service enhances customers' productivity by providing voice and electronic access into the IBM support organization. IBM Operational Support Services — SoftwareXcel will help answer questions pertaining to usage and suspected software defects for eligible products.

Installation and technical support is provided by Global Services. For more information, call 800-IBM-4YOU (426-4968).

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

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

Packaging: The IBM Tivoli OMEGAMON on z/OS Family of products are distributed with:

- International Program License Agreement (Z125-3301)
- License Information documents
- 3480 tape cartridge
- Publications (refer to the **Publications** section)

Security, auditability, and control

The IBM Tivoli OMEGAMON XE Family of Products 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.

IBM Tivoli Enhanced Value-Based Pricing

IBM Tivoli software products are priced using IBM Tivoli's Enhanced Value-Based Pricing. The Enhanced Value-Based Pricing system is based upon the IBM Tivoli Environment-Managed Licensing Model, which uses a managed-environment approach — whereby price is determined by what is managed rather than the number and type of product components installed.

For example, all servers monitored with IBM Tivoli's monitoring product (IBM Tivoli Monitoring) require entitlements sufficient for those servers. Other IBM Tivoli products may manage clients, client devices, agents, network nodes, users, or other items, and are licensed and priced accordingly.

Unlike typical systems management licensing models that require entitlements of specific software components to specific systems, the IBM Tivoli Environment-Managed Licensing Model provides the customer flexibility to deploy its IBM Tivoli software products within its environment in a manner that can address and respond to the customer's evolving architecture. That is, as the architecture of a customer's environment changes, the customer's implementation of IBM Tivoli software can be

altered as needed without affecting the customer's license requirements (as long as the customer does not exceed its entitlements to the software).

Under Enhanced Value-Based Pricing, licensing and pricing of server-oriented applications are determined based upon the server's use in the customer's environment. Typically, such applications are licensed and priced in a manner that corresponds to each installed and activated processor of the server managed by the IBM Tivoli application to help correlate price to value while offering a simple solution.

Where a server is physically partitioned, this approach is modified. This partitioning technique is the approach used with systems that have either multiple cards or multiple frames, each of which can be configured independently. For servers capable of physical partitioning (for example, IBM's pSeries® Scalable POWERparallel Systems® servers, Sun Ultra servers, and HP Superdome servers), an entitlement is required for each processor in the physical partition being managed by the Tivoli application. For example, assume that a server has 24 processors installed in aggregate. If this server is not partitioned, entitlements are required for all 24 processors. If, however, it is physically partitioned into three partitions each containing eight processors, and Tivoli products were managing only one of the three partitions, then entitlements would be required for the eight processors on the physical partition managed by the IBM Tivoli application.

For servers with virtual or logical partitions, entitlements are required for all installed and activated processors on the server. For each IBM Tivoli application managing a clustered environment, licensing is based on the cumulative number of installed and activated processors on each server in the cluster. Where the cluster includes physically partitioned servers, the considerations described above concerning physically partitioned servers apply as well.

Enhanced Value-Based Pricing recognizes the convergence of RISC/UNIX and Microsoft Windows/Intel™ technologies, in order to simplify the customers licensing requirements, and to provide a smoother, more scalable model. Pricing and licensing does not differentiate between non-zSeries server platforms or operating systems. For some products, this platform neutrality extends to zSeries and other host servers as well.

IBM Tivoli Enhanced Value-Based Pricing terminology definitions**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 zSeries or OS/390® server. Consequently, executing Linux workload on the IBM Integrated Facility for Linux will not, in most cases, result in any increased IBM software charges for z/OS, OS/390, VM, VSE, or TPF operating systems/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.

Millions of Service Units (MSU)

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

For more detailed information about zSeries software pricing, go to

http://www-1.ibm.com/servers/eserver/zseries/library/refguides/sw_pricing.html

Partitions

A server's resources (CPU, memory, I/O, interconnects, and buses) may be divided according to the needs of the applications running on the server. This partitioning can be implemented with physical boundaries (Physical Partitions) or logical boundaries (Logical Partitions).

Physical Partitions are defined by a collection of processors dedicated to a workload and can be used with systems that have either multiple cards or multiple frames, each of which can be configured independently. In this method, the partitions are divided along hardware boundaries and processors, and the I/O boards, memory, and interconnects are not shared.

Logical Partitions are defined by software rather than hardware and allocate a pool of processing resources to a collection of workloads. These partitions, while separated by software boundaries, share hardware components and run in one or more physical partitions.

Processor

Processor ("per Processor" charging under Full Capacity) In Full Capacity charging, Proofs of Entitlement (PoEs) must be acquired for all activated "processors" (available for use) that are on the server where the program or a component of the program is run.

Notes:

1. IBM defines a physical processor in a computer as a functional unit that interprets and executes instructions. A physical processor consists of at least an instruction control unit and one or more arithmetic and logic units.
2. Multi-core technology allows two or more processors (commonly called "cores") to be active on a single silicon chip. With multi-core technology, IBM considers each "core" to be a physical processor. For example, in a dual-core chip, there are two physical processors residing on the single silicon chip.
3. In the zSeries' Integrated Facility for Linux (IFL) environment, each IFL engine is considered a single "physical processor."
4. Threading, a technique which makes a single processor seem to perform as two or more, does **not** affect the count of physical processors.
5. Where "blade" technology is employed, each "blade" is considered a separate server and charging is based upon the total number of processors on the blade on which the program is run.

6. When a server is shipped with six processors, but two of them are "inactive," four processors are active for the customer.

Managed Processor (charging under Full Capacity in the "managed environment")

Charges are based on the active processors on the machines in the computing environment affiliated with the program rather than on the server where the program is run. The managed processors which require PoEs are defined both in the **Prices** section of the Announcement or the License Information's Program-unique terms.

Notes:

1. IBM defines a physical processor in a computer as a functional unit that interprets and executes instructions. A physical processor consists of at least an instruction control unit and one or more arithmetic and logic units.
2. Multi-core technology allows two or more processors (commonly called "cores") to be active on a single silicon chip. With multi-core technology, IBM considers each "core" to be a physical processor. For example, in a dual-core chip, there are two physical processors residing on the single silicon chip.
3. The program may **not run** on **some or all** of the processors for which PoEs are required by the program's valuation method.
4. In the zSeries' Integrated Facility for Linux (IFL) environment, each IFL engine is considered a single "physical processor."
5. Threading, a technique which makes a single processor seem to perform as two or more, does **not** affect the count of physical processors.
6. Where "blade" technology is employed, each "blade" is considered a separate server and charging is based upon the total number of processors on the blades with which the program is affiliated.

Server

A server is a computer system that executes requested procedures, commands, or applications to one or more clients and/or other devices over a network. Examples include, but are not limited to, file servers, print servers, mail servers, database servers, application servers, and Web servers.

Standby or backup systems

For programs running or resident on backup machines, IBM defines three types of situations: cold, warm, and hot. In the 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 another license 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 entitlements 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, and so on), the program is considered to be doing work in the hot situation and a license or entitlement must be purchased.

Value Units

A Value Unit is a metric used to compute license quantities and is program specific.

Product Web site

A complete list of products and licensing documents is available at Web site

<http://www.ibm.com/software/tivoli/products>

Pricing example

IBM Tivoli OMEGAMON XE family of products

These products are licensed in VUE007.

The scales below are used to calculate the equivalent number of Value Units for a specified number of MSUs.

In the example below, the customer is managing 1,500 MSUs:

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. 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 zSeries systems measured on MSU capacity. Information on MSU capacities can be found in the *IBM System/370™, System/390® and zSeries Machine Exhibit, Z125-3901*.

Ordering information

The program in this announcement has Value Unit-based pricing.

Program number	Program name	Value Unit Exhibit
5655-P07	IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS	VUE007
5655-P08	IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS	VUE007
5655-P98	IBM DB2 Buffer Pool Analyzer on z/OS	VUE007
5698-A59	IBM Tivoli OMEGAMON XE on z/OS	VUE007
5698-A46	IBM Tivoli OMEGAMON XE for Storage on z/OS	VUE007
5698-A40	IBM Tivoli OMEGAMON XE for Mainframe Networks	VUE007
5698-A39	IBM Tivoli OMEGAMON XE for IMS on z/OS	VUE007

For each zSeries 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 zSeries IPLA program you select
- The applicable Value Unit Exhibit
- The applicable terms

Sub-capacity terms and conditions: For each zSeries 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 zSeries 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 zSeries IPLA program you selected, refer to the **Ordering information** section.

Program number	Program name	Terms	Parent	Parent name
5698-A59	IBM Tivoli OMEGAMON XE on z/OS V3.1.0	z/OS	5694-A01	z/OS V1
5698-A59	IBM Tivoli OMEGAMON XE on z/OS V3.1.0	z/OS	5655-G52	z/OS.e V1
5698-A40	IBM Tivoli OMEGAMON XE on Mainframe Networks V2.1.0	z/OS	5694-A01	z/OS V1
5698-A40	IBM Tivoli OMEGAMON XE on Mainframe Networks V2.1.0	z/OS	5655-G52	z/OS.e V1
5698-A46	IBM Tivoli OMEGAMON XE for Storage on z/OS V3.1.0	z/OS	5694-A01	z/OS V1
5698-A46	IBM Tivoli OMEGAMON XE for Storage on z/OS V3.1.0	z/OS	5655-G52	z/OS.e V1
5698-A39	IBM Tivoli OMEGAMON XE for IMS on z/OS V3.1.0	Ref.	5655-C56	IMS V8
5698-A39	IBM Tivoli OMEGAMON XE for IMS on z/OS V3.1.0	Ref.	5655-J38	IMS V9
5655-P08	IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS V1.1.0	Ref.	5675-DB2	DB2 UDB for OS/390 V7
5655-P08	IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS V1.1.0	Ref.	5625-DB2	DB2 UDB for z/OS V8
5655-P07	IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS V3.1.0	Ref.	5675-DB2	DB2 UDB for OS/390 V7
5655-P07	IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS V3.1.0	Ref.	5625-DB2	DB2 UDB for z/OS V8
5655-P98	IBM DB2 Buffer Pool Analyzer on z/OS V3.1.0	Ref.	5675-DB2	DB2 UDB for OS/390 V7
5655-P98	IBM DB2 Buffer Pool Analyzer on z/OS V3.1.0	Ref.	5625-DB2	DB2 UDB for z/OS V8

Full-capacity mainframes

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

Full machine-based

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

For more information on mainframe MSU rated capacities, refer to *The System/370, System/390, and zSeries Machine Exhibit (Z125-3901)* or visit the "Mainframes" section of the zSeries Exhibits Web site

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

Sub-capacity mainframes

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

Execution-based

The required capacity of a zSeries IPLA sub-capacity program with these terms equals the capacity of the LPARs where the zSeries IPLA program executes.

z/OS-based

The required license capacity of a zSeries IPLA program with these terms equals the license capacity of z/OS (and z/OS.e) on the machines where the zSeries IPLA program executes.

Reference-based

The required license capacity of a zSeries 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.

For more information on mainframe MSU rated capacities, refer to *The System/370, System/390, and zSeries Machine Exhibit (Z125-3901)* or visit the "Mainframes" section of the zSeries Exhibits Web site

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

For more information on sub-capacity zSeries IPLA terms and conditions, refer to Software Announcement 204-184, dated August 10, 2004.

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

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

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

1. That meets the criteria defined in Hardware Announcement 198-001, dated January 13, 1998
2. Where MLC pricing is aggregated across the Sysplex

Sub-Capacity Eligibility: To be eligible for sub-capacity charging on select zSeries 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 zSeries (or equivalent). On that machine:

- All instances of the OS/390 operating system must be migrated to the z/OS (or z/OS.e) operating systems
- Any licenses for the OS/390 operating system must be discontinued
- All instances of the z/OS operating (or z/OS.e) 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 zSeries Software Pricing Web site

<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 zSeries Workload License Charges” (Z125-6516).
- The complete terms and conditions for sub-capacity EWLC are defined in the “IBM Customer Agreement — Attachment for z800 and z890 Software 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 zSeries Platform Programs Sub-Capacity Pricing* (Z125-6929-02, or higher). Once the amendment is signed, the terms in the amendment replace any and all previous zSeries 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 zSeries [or equivalent] server).

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 zSeries 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

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 U.S. 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 Web site at

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

The products in this announcement have one charge unit — Value Units.

Basic license

On/Off Capacity on Demand (On/Off CoD)

The products in this announcement are eligible for On/Off CoD with a Temporary Use Charge calculated based on MSUs-per day usage.

Product name	PID
IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS	5655-P07
IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS	5655-P08
IBM DB2 Buffer Pool Analyzer on z/OS	5655-P98
IBM Tivoli OMEGAMON XE for Storage on z/OS	5698-A46
IBM Tivoli OMEGAMON XE for IMS on z/OS	5698-A39
IBM Tivoli OMEGAMON XE for Mainframe Networks on z/OS	5698-A40
IBM Tivoli OMEGAMON XE	5698-A59

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

Program PID: 5655-P07

Entitlement identifier	Description	License option/ pricing metric
S01228Z	IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS	Basic OTC(1), Per MSU-day TUC

(1) OTC = One-time charge

Program name: Tivoli OMEGAMON XE
for DB2 Performance Monitor on z/OS, V3

Program PID: 5655-P08

Entitlement identifier	Description	License option/ pricing metric
S012295	IBM Tivoli OMEGAMON XE for DB2 Perform-Perf Monitor on z/OS	Basic OTC, Per MSU-day TUC

Program name: IBM DB2 Buffer Pool
Analyzer on z/OS

Program PID: 5655-P98

Entitlement identifier	Description	License option/ pricing metric
S01229C	IBM DB2 Buffer Pool Analyzer on z/OS	Basic OTC, Per MSU-day TUC

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

Program PID: 5698-A46

Entitlement identifier	Description	License option/ pricing metric
S01252F	IBM Tivoli OMEGAMON XE Storage on z/OS	Basic OTC, Per MSU-day TUC

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

Program PID: 5698-A39

Entitlement identifier	Description	License option/ pricing metric
S01252S	IBM Tivoli OMEGAMON XE for IMS on z/OS	Basic OTC, Per MSU-day TUC

Program name: IBM Tivoli OMEGAMON XE
for Mainframe Networks

Program PID: 5698-A40

Entitlement identifier	Description	License option/ pricing metric
S01252L	IBM Tivoli OMEGAMON XE for Mainframe Networks	Basic OTC, Per MSU-day TUC

Program name: IBM Tivoli OMEGAMON XE
on z/OS

Program PID: 5698-A59

Entitlement identifier	Description	License option/ pricing metric
S012523	IBM Tivoli OMEGAMON XE on z/OS	Basic OTC, Per MSU-day TUC

New licensees

Orders for new licenses will be accepted now.

Shipment will begin on the planned availability date.

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 Tivoli OMEGAMON XE for DB2
Performance Expert on z/OS

Program PID: 5655-P07

Entitlement identifier	Description	License option/ pricing metric
S01228Z	IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS	Basic OTC, per Value Units Trade-ups, per Value Units

Orderable supply ID	Language	Distribution medium
S012290	U.S. English	3480 Tape Cartridge

Subscription and Support PID: 5655-R07

Entitlement identifier	Description	License option/ pricing metric
S0122MR	IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge

Orderable supply ID	Language	Distribution medium
S0122MS	English	Hardcopy publication

Program name: IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS

Program PID: 5655-P08

Entitlement identifier	Description	License option/ pricing metric
S012295	IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS	Basic OTC, per Value Units Trade-ups, per Value Units
Orderable supply ID	Language	Distribution medium
S012296	U.S. English	3480 Tape Cartridge

Subscription and Support PID: 5655-R08

Entitlement identifier	Description	License option/ pricing metric
S0122MV	IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
Orderable supply ID	Language	Distribution medium
S0122MW	English	Hardcopy publication

Program name: IBM DB2 Buffer Pool Analyzer on z/OS

Program PID: 5655-P98

Entitlement identifier	Description	License option/ pricing metric
S01229C	IBM DB2 Buffer Pool Analyzer on z/OS	Basic OTC, per Value Units
Orderable supply ID	Language	Distribution medium
S01229D	U.S. English	3480 Tape Cartridge

Subscription and Support PID: 5655-E55

Entitlement identifier	Description	License option/ pricing metric
S00VZFD	IBM DB2 Buffer Pool Analyzer on z/OS	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
Orderable supply ID	Language	Distribution medium
S00VZFF	English	Hardcopy publication

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

Program PID: 5698-A46

Entitlement identifier	Description	License option/ pricing metric
S01252F	IBM Tivoli OMEGAMON XE for Storage on z/OS	Basic OTC, per Value Units
Orderable supply ID	Language	Distribution medium
S01252G	U.S. English	3480 Tape Cartridge

Subscription and Support PID: 5608-S77

Entitlement identifier	Description	License option/ pricing metric
S011KW6	IBM Tivoli OMEGAMON XE for Storage on z/OS	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
Orderable supply ID	Language	Distribution medium
S011KW7	English	Hardcopy publication

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

Program PID: 5698-A39

Entitlement identifier	Description	License option/ pricing metric
S01252S	IBM Tivoli OMEGAMON XE for IMS on z/OS	Basic OTC, per Value Units
Orderable supply ID	Language	Distribution medium
S01252T	U.S. English	3480 Tape Cartridge

Subscription and Support PID: 5608-S75

Entitlement identifier	Description	License option/ pricing metric
S011KWP	IBM Tivoli OMEGAMON XE for IMS on z/OS	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
Orderable supply ID	Language	Distribution medium
S011KWR	English	Hardcopy publication

Program name: IBM Tivoli OMEGAMON XE for Mainframe Networks

Program PID: 5698-A40

Entitlement identifier	Description	License option/ pricing metric
S01252L	IBM Tivoli OMEGAMON XE for Mainframe Networks	Basic OTC, per Value Units
Orderable supply ID	Language	Distribution medium
S01252M	U.S. English	3480 Tape Cartridge

Subscription and Support PID: 5608-S76

Entitlement identifier	Description	License option/ pricing metric
S011KWL	IBM Tivoli OMEGAMON XE for Mainframe Networks	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
Orderable supply ID	Language	Distribution medium
S011KWM	English	Hardcopy publication

Program name: IBM Tivoli OMEGAMON XE on z/OS

Program PID: 5698-A59

Entitlement identifier	Description	License option/ pricing metric
S012523	IBM Tivoli OMEGAMON XE on z/OS	Basic OTC, per Value Units
Orderable supply ID	Language	Distribution medium
S012524	U.S. English	3480 Tape Cartridge

Subscription and Support PID: 5608-S81

Entitlement identifier	Description	License option/ pricing metric
S011KX1	IBM Tivoli OMEGAMON XE on z/OS	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
Orderable supply ID	Language	Distribution medium
S011KX2	English	Hardcopy publication

Subscription and Support

To receive voice technical support via telephone during normal business hours and future releases and versions at no additional charge, Subscription and Support must be ordered. The capacity of Subscription and Support (for

example, Value Units or number of processors) must be the same as the capacity ordered for the product licenses.

To order, specify the Subscription and Support program product number and the appropriate license or charge option.

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

- Includes and extends the support services provided in the base support to include technical support via telephone during normal business hours.
- Entitles customers to future releases and versions at no additional charge. Note that the customer is not entitled to new products.

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

Customized Offerings

Product media is shipped only via Customized Offerings (for example, CBPDO, ServerPac, SystemPac®). Non-customized items (CDs, diskettes, source media, media kits) will continue to be shipped via the stand-alone product.

Terms and conditions

Licensing: IBM International Program License Agreement. PoEs are required for all authorized use.

These products are licensed under the IBM Program License Agreement (IPLA), and the associated Agreement for Acquisition of Software Maintenance, which provides 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. S/390 and zSeries IBM Operational Support Services — SoftwareXcel is an option for those customers who desire added services.

Limited warranty applies: Yes

Warranty: This program has warranty for a minimum of one year from acquisition from IBM or authorized IBM Business Partner. The warranty provided to the customer, for at least one year from acquisition, is access to databases (read Web sites) for program information and FAQs, including any known fixes to defects, which the customer can download or obtain otherwise and install at leisure.

Program support: Enhanced Support, called Subscription and Support, 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. The customer will be notified of discontinuance of support with 12 months' notice.

Money-back guarantee: If for any reason you are dissatisfied with the program, return it within 30 days from the invoice date, to the party (either IBM or its reseller) from whom you acquired it, for a refund. This applies only to your first acquisition of the program.

Copy and use on home/portable computer: No

Volume orders (IVO): No

Passport Advantage® applies: No

For Operating System software, the revised IBM Operational Support Services — SoftwareXcel offering will provide support for those operating systems and associated products that are not available with the newly announced Software Maintenance offering. This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised SoftwareXcel offering, visit

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

For additional information on the revised IBM Operational Support Services, refer to Services Announcement 601-023, dated July 10, 2001.

IBM Operational Support Services — SoftwareXcel: Yes

iSeries™ Software Maintenance applies: No

Variable charges apply: No

Educational allowance available: Yes, 15% education allowance applies to qualified education institution customers.

Over time, customers will be contacted by IBM to migrate their use entitlements from the current portfolio to the replacement product. The table that follows provides a mapping, as well as whether or not a trade-up charge may apply. (A trade-up is an incremental license fee to move up from one product to another). Customers unwilling or unable to migrate to the replacement offering will be migrated to the same offering, but under Value Unit pricing. The customer must be current on maintenance to be eligible for migrations. Customers not current will have to pay a get-current or a maintenance reinstatement fee. The migration is for the same capacity as currently licensed when converted to the pricing metric announced for the replacement offering (for example, MIPS or other metric > MSUs/Value Units). Initial migration quotes will be generated using standard MIPS-> MSU or similar ratios, though customers will be migrated to ensure that they are entitled to use the software on the same systems that they are currently managing by adjusting the MSU quantities where required.

Existing product	Existing product name	Replacement	Replacement name
5608-C14	IBM Tivoli OMEGAMON XE on z/OS V2.2.1	5698-A59	IBM Tivoli OMEGAMON XE for z/OS V3.1.0
5608-A04	IBM Tivoli OMEGAMON II for MVS V5.2.0	5698-A59	IBM Tivoli OMEGAMON XE for z/OS V3.1.0
5608-A22	IBM Tivoli Command Center for Sysplex V2.2.0	5698-A59	IBM Tivoli OMEGAMON XE for z/OS V3.1.0
5608-A09	IBM Tivoli OMEGAMON XE for OS/390 V1.4.0	5698-A59	IBM Tivoli OMEGAMON XE for z/OS V3.1.0
5608-A41	IBM Tivoli OMEGAMON XE for Sysplex V2.2.0	5698-A59	IBM Tivoli OMEGAMON XE for z/OS V3.1.0
5608-C10	IBM Tivoli OMEGAMON XE for Storage on z/OS V2.1.0	5698-A46	IBM Tivoli OMEGAMON XE for Storage on z/OS V3.1.0
5608-A05	IBM Tivoli OMEGAMON II for SMS V5.4.0	5698-A46	IBM Tivoli OMEGAMON XE for Storage on z/OS V3.1.0
5608-A10	IBM Tivoli OMEGAMON XE for Storage V1.0.0	5698-A46	IBM Tivoli OMEGAMON XE for Storage on z/OS V3.1.0

Existing product	Existing product name	Replacement	Replacement name
5608-C09	IBM Tivoli OMEGAMON XE for Mainframe Networks V2.1.0	5698-A40	IBM Tivoli OMEGAMON XE for Mainframe Networks V3.1.0
5608-A37	IBM Tivoli OMEGAMON II for Mainframe Networks V5.2.0	5698-A40	IBM Tivoli OMEGAMON XE for Mainframe Networks V3.1.0
5608-C08	IBM Tivoli OMEGAMON XE for IMS on z/OS V2.2.1	5698-A39	IBM Tivoli OMEGAMON XE for IMS on z/OS V3.1.0
5608-A36	IBM Tivoli OMEGAMON II for DBCTL V5.1.0	5698-A39	IBM Tivoli OMEGAMON XE for IMS on z/OS V3.1.0
5608-A03	IBM Tivoli OMEGAMON II for IMS V5.1.0	5698-A39	IBM Tivoli OMEGAMON XE for IMS on z/OS V3.1.0
5608-A45	IBM Tivoli Command Center for IMSplex with DBCTL V2.2.0	5698-A39	IBM Tivoli OMEGAMON XE for IMS on z/OS V3.1.0
5608-A32	IBM Tivoli Command Center for IMSplex with IMS V2.2.0	5698-A39	IBM Tivoli OMEGAMON XE for IMS on z/OS V3.1.0
5608-A39	IBM Tivoli OMEGAMON XE for IMS V1.0.0	5698-A39	IBM Tivoli OMEGAMON XE for IMS on z/OS V3.1.0
5608-A08	IBM Tivoli OMEGAMON XE for IMSplex V2.2.0	5698-A39	IBM Tivoli OMEGAMON XE for IMS on z/OS V3.1.0

The products listed below do not have formal tradeups and customers should be migrated according to the migration delegation document.

Existing product	Existing product name	Replacement	Replacement name
5608-A02	IBM Tivoli OMEGAMON II for DB2 V5.2.0	5655-CXE	IBM Tivoli OMEGAMON XE for DB2 on z/OS V4.0.0
5608-A21	IBM Tivoli Command Center for DB2plex V2.2.0	5655-CXE	IBM Tivoli OMEGAMON XE for DB2 on z/OS V4.0.0
5608-A07	IBM Tivoli OMEGAMON XE for DB2 1.0.0	5655-CXE	IBM Tivoli OMEGAMON XE for DB2 on z/OS V4.0.0
5608-A38	IBM Tivoli OMEGAMON XE for DB2plex V2.2.0	5655-CXE	IBM Tivoli OMEGAMON XE for DB2 on z/OS V4.0.0
5608-A67	IBM Tivoli OMEGAMON XE for DB2 on z/OS V3.0.0	5655-CXE	IBM Tivoli OMEGAMON XE for DB2 on z/OS V4.0.0

The products listed below require Tradeup according to the schedule that follows:

Existing product	Existing product name
5608-S68 (S&S PID)	IBM Tivoli OMEGAMON XE for DB2 on z/OS
5655-E81 (S&S PID)	DB2 Performance Monitor for z/OS
5655-I31 (S&S PID)	DB2 Performance Expert for z/OS

Customer has:	Customer wants:	Tradeup
5608-S68 S&S for IBM Tivoli OMEGAMON XE for DB2 on z/OS V4.0.0 or 5655-E81 S&S for DB2 Performance Monitor for z/OS	5655-P08-IBM Tivoli OMEGAMON XE for Performance Monitor on z/OS V1.1.0	Yes
5608-S68 S&S for IBM Tivoli OMEGAMON XE for DB2 on z/OS V4.0.0 and 5655-E81 S&S for DB2 Performance Monitor for z/OS	5655-P08-IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS V1.1.0	Yes-No Charge
5608-S68 S&S for IBM Tivoli OMEGAMON XE for DB2 on z/OS V4.0.0 or 5655-I31 S&S for DB2 Performance Expert for z/OS	5655-P07-IBM Tivoli OMEGAMON XE for Performance Expert on z/OS V1.1.	Yes
5608-S68 S&S for IBM Tivoli OMEGAMON XE for DB2 on z/OS V4.0.0 and 5655-I31 S&S for DB2 Performance Expert for z/OS	5655-P07-IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS V1.1.0	Yes-No Charge

Sub-capacity terms and conditions

For sub-capacity terms and conditions, refer to the **Ordering information** section.

Sub-capacity utilization determination

For Sub-capacity utilization determination, refer to the **Ordering information** section.

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 zSeries [or equivalent] server).

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

On/Off Capacity on Demand

To be eligible for On/Off CoD pricing, customers must be enabled for temporary capacity on the corresponding hardware, and the required contract — Z125-6611, Attachment for Customer Initiated Upgrade and IBM @server® On/Off Capacity on Demand — Software — must be signed prior to use.

IBM Electronic Services

IBM Global Services has transformed its delivery of hardware and software support services to put you on the road to higher systems availability. IBM Electronic Services is a Web-enabled solution that provides you with an exclusive, no-additional-charge enhancement to the service and support on the IBM @server®. You should benefit from greater system availability due to faster problem resolution and preemptive monitoring. IBM Electronic Services is comprised of two separate, but complementary, elements: IBM Electronic Services news page and IBM Electronic Service Agent™.

IBM Electronic Services news page provides you with a single Internet entry point that replaces the multiple entry points traditionally used by customers 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 IBM Electronic Service Agent is a no-additional-charge software that resides on your IBM @server® system. It is designed to proactively monitor events and transmit system inventory information to IBM on a periodic, customer-defined timetable. The IBM Electronic Service Agent tracks system inventory, hardware error logs, and performance information. If the server is under a current IBM maintenance service agreement or within the IBM warranty period, the Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to provide proactive service that maintains higher system availability and performance. In addition, information collected through the Service Agent will be made available to IBM service support representatives when they are helping answer your questions or diagnosing problems.

To learn how IBM Electronic Services can work for you, visit

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

Prices

Information on charges is available at

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

In the Electronic tools category, select the option for "Purchase/upgrade tools."

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

Program PID: 5655-P07

Entitlement identifier	Description	License option/ pricing metric
S01228Z	IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS	Basic OTC, per Value Units Tradeups, per Value Units

Subscription and Support PID: 5655-R07

Entitlement identifier	Description	License option/ pricing metric
S0122MR	IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge

Program name: IBM Tivoli OMEGAMON XE for DB2
Performance Monitor on z/OS

Program PID: 5655-P08

Entitlement identifier	Description	License option/ pricing metric
S012295	IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS	Basic OTC, per Value Units Trade-ups, per Value Units

Subscription and Support PID: 5655-R08

Entitlement identifier	Description	License option/ pricing metric
S0122MV	IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS	SW Subscription and Support AS Decline SW S&S No Charge

Program name: IBM DB2 Buffer Pool Analyzer on z/OS

Program PID: 5655-P98

Entitlement identifier	Description	License option/ pricing metric
S01229C	IBM DB2 Buffer Pool Analyzer on z/OS	Basic OTC, per Value Units

Subscription and Support PID: 5655-E55

Entitlement identifier	Description	License option/ pricing metric
S00VZFD	IBM DB2 Buffer Pool Analyzer on z/OS	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge

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

Program PID: 5698-A46

Entitlement identifier	Description	License option/ pricing metric
S01252F	IBM Tivoli OMEGAMON XE for Storage on z/OS	Basic OTC, per Value Units

Subscription and Support PID: 5608-S77

Entitlement identifier	Description	License option/ pricing metric
S011KW6	IBM Tivoli OMEGAMON XE for Storage on z/OS	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge

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

Program PID: 5698-A39

Entitlement identifier	Description	License option/ pricing metric
S01252S	IBM Tivoli OMEGAMON XE for IMS on z/OS	Basic OTC, per Value Units

Subscription and Support PID: 5608-S75

Entitlement identifier	Description	License option/ pricing metric
S011KWP	IBM Tivoli OMEGAMON XE for IMS on z/OS	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge

Program name: IBM Tivoli OMEGAMON XE for Mainframe Networks

Program PID: 5698-A39

Entitlement identifier	Description	License option/ pricing metric
S01252L	IBM Tivoli OMEGAMON XE for Mainframe Networks	Basic OTC, per Value Units

Subscription and Support PID: 5608-S76

Entitlement identifier	Description	License option/ pricing metric
S011KWL	IBM Tivoli OMEGAMON XE for Mainframe Networks	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge

Program name: IBM Tivoli OMEGAMON XE on z/OS

Program PID: 5698-A59

Entitlement identifier	Description	License option/ pricing metric
S012523	IBM Tivoli OMEGAMON XE on z/OS	Basic OTC, per Value Units

Subscription and Support PID: 5608-S81

Entitlement identifier	Description	License option/ pricing metric
S011KX1	IBM Tivoli OMEGAMON XE on z/OS	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge

Order now

To order, contact the Americas Call Centers, your local IBM representative, or your IBM Business Partner.

To identify your local IBM representative or IBM Business Partner, call 800-IBM-4YOU (426-4968).

Phone: 800-IBM-CALL (426-2255)
Fax: 800-2IBM-FAX (242-6329)
Internet: ibm_direct@vnet.ibm.com
Mail: IBM Americas Call Centers
Dept: IBM CALL, 11th Floor
105 Moatfield Drive
North York, Ontario
Canada M3B 3R1

Reference: YE001

The Americas Call Centers, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

Note: Shipments will begin after the planned availability date.

Trademarks

MVS, IMS, Tivoli Enterprise, System/370, z/Architecture, Perform, iSeries, and Electronic Service Agent are trademarks of International Business Machines Corporation in the United States or other countries or both.

Tivoli, CandleNet, OMEGAMON, CandleNet Portal, Candle, the e-business logo, z/OS, OMEGAMON II, EPILOG, ETE, DB2, zSeries, the e-business logo, eServer, CICS, VTAM, DB2 Connect, AIX, SP2, pSeries, Scalable POWERparallel Systems, OS/390, S/390, System/390, Parallel Sysplex, SystemPac, and Passport Advantage are registered trademarks of International Business Machines Corporation in the United States or other countries or both.

Intel is a trademark of Intel Corporation.

Windows and Microsoft are trademarks of Microsoft Corporation.

Java is a trademark of Sun Microsystems, Inc.

UNIX is a registered trademark of the Open Company in the United States and other countries.

Linux is a trademark of Linus Torvalds in the United States, other countries or both

Other company, product, and service names may be trademarks or service marks of others.