Software Announcement
October 10, 2006

Family of IBM Tivoli OMEGAMON System z products: Next evolution in IBM Tivoli OMEGAMON performance and availability solutions

Overview

End-to-end performance management requires management solutions from the mainframe systems, through the maze of distributed servers and networks, and on the desk tops. System z™ Tivoli® OMEGAMON® management products for CICS®, DB2®, IMS™, mainframe networks, storage, and z/VM® and Linux™ provide powerful performance and system management functionality.

These System z Tivoli OMEGAMON products also support the IBM IT Service Management (ITSM) solutions through focused monitoring and management of all the critical resources associated with key business applications running on System z. They are part of the foundation of the ITSM initiative integrating these capabilities with effective event and incident management processes to improve the overall availability of IT service delivery.

The IBM Tivoli OMEGAMON XE portfolio of solutions for System z delivers monitoring and management capabilities in a single integrated view. The suite is focused on proactive monitoring and managing of critical resources associated with key business applications.

A common, shared technology, introduced with IBM Tivoli Monitoring (ITM) V6.1, supports mainframe and distributed monitoring functionality, and includes a single and powerful Tivoli Enterprise™ Portal (TEP) as the user interface for all monitoring products. The new OMEGAMON product releases in this announcement are planned to support the Tivoli Data Warehouse (TDW) functions in the common shared technology to exploit new aggregation and pruning features for improved historical reporting.

The announcement includes:

- IBM Tivoli OMEGAMON XE for CICS on z/OS® V4.1.0
- IBM Tivoli OMEGAMON XE for IMS on z/OS V4.1.0
- IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS V4.1.0
- IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS V4.1.0
- IBM DB2 Buffer Pool Analyzer for z/OS V4.1.0
- IBM Tivoli OMEGAMON XE for Mainframe Networks V4.1.0
- IBM Tivoli OMEGAMON XE for Storage on z/OS V4.1.0
- IBM Tivoli OMEGAMON XE on z/VM and Linux V4.1.0
- IBM Tivoli Web Access for Information Management (InfoMan) V1.3.0

Key prerequisites

Refer to the **Software requirements** section.

Planned availability date

October 13, 2006

At a glance

IBM Tivoli OMEGAMON System z family of products includes:

- Extended integration with the introduction of the Dynamic Workspace Linking (DWL) capability between all Tivoli Enterprise Portal (TEP) based products to help reduce the time in isolating problems
- Continued migration of key OMEGAMON II® features into OMEGAMON XE functionality
- Commonly shared technology, which broadens the platforms where the Tivoli Enterprise Portal (TEP), Tivoli Enterprise Portal Server, and Tivoli Enterprise Monitor Server can reside
- Translation of products into Chinese Simplified, Chinese Traditional, French, German, Italian, Japanese, Korean, Brazilian Portuguese, and Spanish
- Day one support for z/OS V1.8
- Support for the IBM System z9™ Integrated Information Processor (zIIP) reporting, to monitor the use, performance, and workloads of these processors

For ordering, contact:
Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL Reference: YE001

Description

Integration among the monitoring agents is key to leveraging the power of the OMEGAMON XE products. Dynamic workspace linking allows you to easily navigate between workspaces that are provided by multiple products. This feature aids problem determination and improves integration across the monitoring products, allowing you to quickly determine the root cause of a problem. Predefined cross-product links, provided by the OMEGAMON XE products, allow you to obtain additional information about systems, subsystems, resources, or network components.

The product interface and documentation for OMEGAMON XE monitoring agents on System z are translated into these languages: Simplified Chinese, Traditional Chinese, French, German, Italian, Japanese, Korean, Brazilian Portuguese, and Spanish. These globalized products make it easier for non-English speaking people to use OMEGAMON products and should reduce the amount of time required for problem resolution. The translation of the monitoring agents provides a consistency with IBM Tivoli Monitoring V6.1, which has also been globalized.

Each of the OMEGAMONs include serviceability enhancements such as IBM Support Assistance (ISA) plug-ins and a problem determination guide to help the correction of problems with the OMEGAMONs, if one should occur.

These releases also introduce a new feature referred to as agent versioning. Agent versioning allows V3.1 and V4.1 monitoring agents to coexist in your environment during an upgrade period, so that you can deploy new V4.1.0 monitoring agents to z/OS systems and subsystems along with older monitoring agents. Refer to the product publications for details about this implementation.

Additionally, all V4.1.0 OMEGAMON′s, with the exception of OMEGAMON XE on z/VM and Linux, use the Configuration Tool V3.1.0 that provides easy configuration of the product, propagates environments, and applies maintenance. Enhancements to ICAT V3.1.0 are for Run Time Environments (RTEs), set up to run using the SMP/E target libraries. ICAT now allows activation without the requirement of running the RTE Load job during SMP/e maintenance. Configuration data does not have to change with the installation of service. When activating service, you should not have to stop all monitors to update any one of them. The Configuration Tool supports SSL and IP V6 with a current restriction to 32 byte host names.

IBM Tivoli OMEGAMON XE for CICS on z/OS V4.1.0

The product facilitates proactive management of complex CICS systems to help users achieve high performance and avoid costly downtime. With a flexible and easy-to-use browser interface, 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.

New in IBM Tivoli OMEGAMON XE for CICS on z/OS V4.1.0:

- URIMAP summary, global counts, and details for CICS Web clients.
- Web service analysis for Web Service Details, Virtual Host Detail, Pipeline Detail, and Document Template Detail.
- Business Transaction Services (BTS) support for long running processes, type, name, container, and activity.
- Recovery Manager unit of work for application performance tuning.
- Enqueue pool details for recovery.
- Enterprise Java™ analysis, list of Corba servers detail items for the current CICS region, enterprise Java analysis report, and request model details.
- Product-provided DWL providing greater System z monitoring integration between OMEGAMON XE for CICS on z/OS and the following:
  - OMEGAMON XE DB2 Performance Monitor/Performance Expert on z/OS to follow transactions to DB2
  - OMEGAMON XE for IMS on z/OS to follow transactions to IMS
  - OMEGAMON XE on z/OS for linking Sysplex Coupling Facility information
- Migrate the Service Level Analyzer (SLA) function to the XE interface.
- Add Application Trace Facility (ATF) to the OMEGAMON classic component.
- Remove the requirement to define OMEGAMON CICS except in those cases where the data is required for post processing in a batch historical reporting product. The OMEGAMON CICS database SMF records have been renumbered from 255 to 112 to conform with IBM standards, and the data in the records is now buffered, which allows for a more efficient use of resources.
- Change OMEGAMON CICS SMF records to fit IBM standards.

Historical reporting is key to managing the CICS environment. For robust historical reporting capability, the IBM CICS Performance Analyzer for z/OS is offered. It is an offline historical performance reporting and analysis tool which complements IBM Tivoli OMEGAMON XE for CICS on z/OS for extensive CICS performance analysis and understanding of usage trends. IBM has announced further integration between OMEGAMON XE for CICS and CICS PA by supporting additional, OMEGAMON-recorded data from the CICS SMF 110 performance records. For additional information, refer to Software Announcement 206-236, dated October 3, 2006.

IBM Tivoli OMEGAMON XE for IMS on z/OS V4.1.0

This product is a powerful management tool to help you optimize the performance and availability of the user′s vital IMS systems. It provides a single point for monitoring your IMS systems 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.

New features in V4.1.0:

- Transaction Reporting Facility (TRF) reporting capability has increased precision of CPU reporting transaction granularity to the millisecond.
- DL/I call reporting for full function and Fast Path WFI regions — accumulation of all call types issued by an application during the processing of a transaction and the number of each call type issued by an application during transaction processing will be provided for display.
- Key feature migration from OMEGAMON classic component; the region occupancy percentage has been added to Dependent Region statistics.
- High Availability Large Database (HALDB) support, providing database summaries, partition details, and VSAM/OSAM statistics.

- DBCTL detailed thread reporting for monitoring activity allowing the detection and prevention of application bottlenecks and response time problems.
- IMS Connect reporting enhancements expanding capability to provide summary of transaction performance, details about every transaction processed, and auto-discovery of IMS Connect task.
- Product-provided DWL providing greater System z monitoring integration between OMEGAMON XE for IMS on z/OS and the following:
  - OMEGAMON XE for CICS on z/OS to follow transactions to CICS
  - OMEGAMON XE for DB2 PM/PE on z/OS to follow transactions to DB2

IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS V4.1.0 and **IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS** V4.1.0

These current products represent the convergence of performance management products for DB2 for z/OS and provide enterprise-wide integration capabilities to create cross-platform management of mission-critical relational databases. The Performance Expert offering also includes the Buffer Pool Analyzer tool.

New features for V4.1.0 include:

- Integrated Information Processor (zIIP) processor usage support that is being introduced on the System z platform from a DB2 perspective.
- DB2 V9 day one support.
- The Enhanced Thread Overview will show additional LOCK information and Changed Pages in all Group Buffer Pools.
- Product-provided DWL providing greater System z monitoring integration between OMEGAMON XE for DB2 PM/PE on z/OS and the following:
  - OMEGAMON XE on z/OS for threads running in enclaves
  - OMEGAMON XE for CICS on z/OS for CICS DB2 threads
  - OMEGAMON XE for IMS on z/OS for IMS DB2 threads

IBM DB2 Buffer Pool Analyzer for z/OS V4.1.0

DB2 Buffer Pool Analyzer for z/OS was improved to use less resource and reduce execution time.

IBM Tivoli OMEGAMON XE for Mainframe Networks V4.1.0

The product monitors the TCP/IP and SNA resources on System z. It collects network performance data across z/OS systems and presents the information through the TEP.

New features for V4.1.0:

- Workspaces and performance metrics have been added, allowing the user to monitor VTAM® I/O and buffer pools.
- Enhanced FTP records provide more information related to FTP sessions and FTP transfers.
- TN3270 server session workspaces providing performance and availability metrics for TN3270 servers running z/OS V1.8.
- Advanced historical reporting using both new TEP workspaces and SQL queries against the Tivoli Data Warehouse database.
- Monitoring of High Performance Routing (HPR) connections that do not flow over EE connections.
- Product-provided DWL providing greater System z monitoring integration between OMEGAMON XE for Mainframe Networks and the following:
  - OMEGAMON XE on z/OS for Sysplex information
  - OMEGAMON XE for CICS on z/OS for CICS TCPIP statistics

IBM Tivoli OMEGAMON XE for Storage on z/OS V4.1.0

This product provides comprehensive monitoring of the z/OS I/O sub-system performance and storage availability. The user can 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 (DFSMS), which manages the service levels and priorities of datasets based on user created storage goals, and Data Facility Systems Managed Storage Hierarchical Storage Manager (DFSMShsm™). The new release concentrates on the storage administrator and the daily functions needed to manage a complex environment.

New features for V4.1.0:

- Storage toolkit for DFSMShsm and DFSMSdss™ functions for storage administration function from the TEP interface provide capability to quickly create commands or schedule actions that maintain and administer DASD storage.
- Dataset attribute database gives users versatile and granular reporting capability at the dataset level. You can also use the above toolkit function against the reports generated for storage administration capability.
- Direct Situation Analysis feature helps users analyze and understand a problem that is displayed in one of the standard event workspaces. With direct situation analysis, users navigate directly from an event workspace to information regarding the original situation that triggered an event.
- Volume Problem Reports are workspaces that list the volumes with the least favorable readings for the attribute within the subsystem identifier (SSID) selected for navigation.
- New problem solving workspaces add to your problem determination capabilities.
- Product-provided DWL to OMEGAMON XE on z/OS has been added for following workload to the address space details.
- Ability to launch the IBM TotalStorage® Productivity Center. Using the Application Launch feature from selected workspaces from OMEGAMON XE for Storage on z/OS, users now can launch to the IBM TotalStorage Productivity Center.

IBM Tivoli OMEGAMON XE on z/VM and Linux V4.1.0

This new product provides comprehensive information about the z/VM operating system and the Linux operating system — workloads, and both real and virtual resources. Information on Linux instances, running as z/VM guests and the Linux workload, are targeted so the user sees how these instances and workloads of Linux are running and impacting z/VM. This offering has a prerequisite of z/VM V5.2, or later.

IBM Tivoli OMEGAMON XE on z/VM and Linux utilizes the data collection from Performance Toolkit for VM FL520 (PTK). The PTK is a prerequisite for the OMEGAMON XE on z/VM and Linux product. PTK is rich in z/VM and Guest

wide information making it an ideal source for this z/VM and Guest data as reported in the OMEGAMON product. This is supplemented with the data from the Linux for zSeries® monitoring agent to provide a complete view of the resources and workloads in both operating systems.

Functions included:

- View workloads for virtual machines, response times, and LPAR reporting.
- Reports on z/VM and Linux usage of resources include CPU utilization, storage, and TCP/IP.
- Detailed reports of z/VM and the Linux instance workloads.
- Manages z/VM and its Linux instances for a single point of control.
- Provides the ability to identify, isolate, and correct problems between z/VM and Linux instances quickly.
- Assists in optimizing the z/VM and Linux environments, as well as integrating this information with other IBM products that utilize TEP for a total view of your environment.
- Product-provided DWL to OMEGAMON XE for Linux on System z has been added for greater integration.

IBM Tivoli Web Access for Information Management (InfoMan) V1.3

Based on the strengths of the System z platform, IBM Tivoli Web Access for Information Management (WAI) V1.3, in conjunction with InfoMan V7.1, provides the following:

- TEP integration:
  - Users can construct customizable workspaces to prioritize incidents
  - Situations can be built, based on threshold parameters, to manage escalation of problem incidents
- IT Service Management integration:
  - Analyze failure data based on Change and Configuration Management Database (CCMDB) and store the failure report in the incident
  - Ability to store incident data to CCMDB from the InfoMan database

Web Access for Information Management V1.3 and InfoMan V7.1 provide integration with NetView® on z/OS, OMEGAMON products, Tivoli Service Level Advisor (TSLA), and Tivoli Business Systems Manager (TBSM).

Engine-based Value Unit pricing

Engine-based Value Unit pricing for IBM Tivoli OMEGAMON XE on z/VM and Linux is designed to provide a decreasing price curve as hardware capacities and workload grow, which may help improve price/performance.

There may also be a price benefit when you grow your capacity. Additional capacity is not priced starting at the base with a higher price per unit. Instead, additional capacity is priced starting at the capacity (engines) on which IBM Tivoli OMEGAMON XE on z/VM and Linux has already been installed.

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

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 (PoE). 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.

A no-charge Subscription and Support registration record will be established for each designated machine where IBM Tivoli OMEGAMON XE on z/VM and Linux is running. These no-charge Subscription and Support registration records will be linked to the billable Subscription and

Support and all billable Subscription and Support within the scope of the engine-based Value Units aggregation will be linked together.

Subscription and Support is an annual charge and should be kept at an annual term.

Product positioning

The IBM Tivoli OMEGAMON XE portfolio of solutions for System z delivers monitoring and management capabilities in a single integrated view. The suite is focused on proactive monitoring and managing of critical resources associated with key business applications.

Tivoli OMEGAMON management products for z/OS, z/VM, Linux, CICS, DB2, IMS, mainframe networks, and storage provide outstanding performance and system management functionality. IBM Tivoli Monitoring V6.1 extends this end-to-end management coverage to distributed UNIX®, Windows™, Linux, Linux on System z and AS/400® systems, databases including DB2 UDB, Oracle, Microsoft™ SQL, and Sybase, servers for Microsoft .NET, Microsoft Exchange, virtual servers such as Citrix and VMware, and applications like mySAP9 and Siebel.

These end-to-end management capabilities are extended even further when used with the IBM Tivoli Composite Application Manager (ITCAM) portfolio, all utilizing the TEP common user interface. Other IBM products, such as the IBM OMEGAMON z/OS Management Console, IBM CICS Performance Analyzer, and IBM DB2 Bufferpool Analyzer, further enhance the synergy of the OMEGAMON portfolio.

System z OMEGAMON products support the IT Service Management solutions through focused monitoring and management of all the critical resources associated with key business applications. Integrating these capabilities with event and incident management processes and the CCMDB 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 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 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 206-251

https://www.ibm.com/partnerworld/mem/sla.jsp?num=206-251

IBM United States Announcement Supplemental Information

October 10, 2006

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 Web site

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

Offering information

Product information is available via the Offering information Web site

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

Publications

The following publications will be shipped with the basic machine-readable material for each of the products. The publications listed below can be downloaded from the following Web site after the planned availability date.

http://www.ibm.com/software/tivoli/library/

IBM Tivoli OMEGAMON® XE for Mainframe Networks publications

Publication title	Publication number
OMEGAMON XE for Mainframe Networks V4.1.0	
IBM Tivoli OMEGAMON XE for Mainframe Networks: Planning Guide Version 4.1.0	SC32-1924
IBM Tivoli OMEGAMON XE for Mainframe Networks: Configuration Guide Version 4.1.0	SC32-1923
IBM Tivoli OMEGAMON XE for Mainframe Networks: User¢s Guide Version 4.1.0	SC32-1925
IBM Tivoli OMEGAMON XE for Mainframe Networks Problem Determination Guide Version 4.1.0	SC32-1926
IBM Tivoli Monitoring V6.1.0	
Introducing IBM Tivoli Monitoring, V6.1.0	GI11-4071
Exploring IBM Tivoli Monitoring, V6.1.0	SC32-1803
IBM Tivoli Monitoring Administrator¢s Guide, V6.1.0	SC32-9408
IBM Tivoli Monitoring Installation and Setup Guide, V6.1.0	GC32-9407
IBM Tivoli Monitoring User¢s Guide, V6.1.0	SC32-9409
IBM Tivoli Monitoring Problem Determination Guide, V6.1.0	GC32-9458
IBM Tivoli Monitoring Services on z/OS(R) Program Directory, V6.1.0	GI11-4105
Configuring IBM Tivoli Enterprise(TM) Monitoring Server on z/OS, V6.1.0	SC32-9463
IBM Tivoli Monitoring Services on z/OS Program Directory	GI11-4105
Installing and Upgrading OMEGAMON Platform Version 350/360-based Product and Components	SC32-1975
IBM Tivoli Monitoring: Upgrade Road Map for OMEGAMON XE Version 4.1 Monitoring Agents	GC32-1980
Program Directory	
IBM Tivoli OMEGAMON XE for Mainframe Networks Program Directory	GI11-4116
OMEGAMON II® for Mainframe Networks V560	
User Guide for OMEGAMON II for Mainframe Networks Version 520	GC32-9274
Configuring OMEGAMON II for Mainframe Networks Version 550	SC32-9404
Historical Reporting Guide for OMEGAMON II for Mainframe Networks Version 520	GC32-9272
NCP Monitoring Guide for OMEGAMON II for Mainframe Networks Version 520	GC32-9273
End to end	
End-to-End Response Time Feature (ETE(R)) Reference Manual	SC32-9376

IBM Tivoli OMEGAMON XE on z/VM® and Linux™ publications

Publication title	Publication number
IBM Tivoli OMEGAMON XE on z/VM and Linux V4.1.0	
IBM Tivoli OMEGAMON XE on z/VM and Linux User¢s Guide, Version 4.1.0	SC32-9489
IBM Tivoli OMEGAMON XE on z/VM and Linux Planning and Configuration Guide, Version 4.1.0	GC32-1957
IBM Tivoli OMEGAMON XE on z/VM and Linux Problem Determination Guide, Version 4.1.0	GC32-1901
IBM Tivoli OMEGAMON XE on z/VM and Linux Release Notes, Version 4.1.0	GI11-4095
IBM Tivoli OMEGAMON Monitoring: Agent for Linux OS	
IBM Tivoli OMEGAMON Monitoring: Agent for Linux OS User¢s Guide	SC32-9447
IBM Tivoli Monitoring V6.1.0	
Introducing IBM Tivoli Monitoring, V6.1.0	GI11-4071
Exploring IBM Tivoli Monitoring, V6.1.0	SC32-1803
IBM Tivoli Monitoring Administrator¢s Guide, V6.1.0	SC32-9408
IBM Tivoli Monitoring Installation and Setup Guide, V6.1.0	GC32-9407
IBM Tivoli Monitoring User¢s Guide, V6.1.0	SC32-9409
IBM Tivoli Monitoring Problem Determination Guide, V6.1.0	GC32-9458
IBM Tivoli Monitoring Services on z/OS Program Directory, V6.1.0	GI11-4105
Configuring IBM Tivoli Enterprise Monitoring Server on z/OS, V6.1.0	SC32-9463
IBM Tivoli Monitoring Services on z/OS Program Directory	GI11-4105
Installing and Upgrading OMEGAMON Platform Version 350/360-based Product and Components	SC32-1975
IBM Tivoli Monitoring: Upgrade Road Map for OMEGAMON XE Version 4.1 Monitoring Agents	GC32-1980
Program Directory	
IBM Tivoli OMEGAMON XE on z/VM and Linux, Version 4.1.0 Program Directory	GI11-4135
z/VM Performance Toolkit, V5.2	

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.

z/VM Performance Toolkit Guide, Version 5.2	SC24-6158
Performance Toolkit Reference	SC24-6159

IBM Tivoli OMEGAMON XE for Storage on z/OS publications

Publication title	Publication number
IBM Tivoli OMEGAMON XE for Storage on z/OS V4.1.0	
IBM Tivoli OMEGAMON XE for Storage on z/OS and OMEGAMON II for SMS: Planning, Installation, and Configuration Guide	SC32-1832
IBM Tivoli OMEGAMON XE for Storage on z/OS: User¢s Guide (Version 4.1.0)	SC32-1835
IBM Tivoli OMEGAMON XE for Storage on z/OS: Tuning Guide (Version 4.1.0)	SC32-1834
IBM Tivoli OMEGAMON XE for Storage on z/OS: Problem Determination Guide (Version 4.1.0)	SC32-1836
IBM Tivoli Monitoring V6.1.0	
Introducing IBM Tivoli Monitoring V6.1.0	GI11-4071
Exploring IBM Tivoli Monitoring V6.1.0	SC32-1803
IBM Tivoli Monitoring Administrator¢s Guide, V6.1.0	SC32-9408
IBM Tivoli Monitoring Installation and Setup Guide V6.1.0	GC32-9407
IBM Tivoli Monitoring User¢s Guide V6.1.0	SC32-9409
IBM Tivoli Monitoring Problem Determination Guide V6.1.0	GC32-9458
IBM Tivoli Monitoring Services on z/OS Program Directory V6.1.0	GI11-4105
Configuring IBM Tivoli Enterprise Monitoring Server on z/OS V6.1.0	SC32-9463
IBM Tivoli Monitoring Services on z/OS Program Directory	GI11-4105
Installing and Upgrading OMEGAMON Platform Version 350/360-based Product and Components	SC32-1975
IBM Tivoli Monitoring: Upgrade Road Map for OMEGAMON XE Version 4.1 Monitoring Agents	GC32-1980
Program Directory	
IBM Tivoli OMEGAMON XE for Storage on z/OS V4.1.0 Program Directory	GI11-4114
IBM Tivoli OMEGAMON II for SMS V5.4.0	
OMEGAMON II for SMS User¢s Guide	GC32-9284
OMEGAMON II for SMS Administrator¢s Guide	GC32-9281
OMEGAMON II for SMS Tuning Guide	GC32-9283

IBM Tivoli OMEGAMON XE for CICS® on z/OS publications

Publication title	Publication number
IBM Tivoli OMEGAMON XE for CICS on z/OS V4.1.0	
IBM Tivoli OMEGAMON XE for CICS on z/OS: Planning Guide	GC32-1982
IBM Tivoli OMEGAMON XE for CICS on z/OS: Configuration Guide	GC32-1983
IBM Tivoli OMEGAMON XE for CICS on z/OS: User¢s Guide	GC32-1984
IBM Tivoli OMEGAMON XE for CICS on z/OS: Problem Determination Guide	SC32-1814
IBM Tivoli OMEGAMON XE for CICS on z/OS: Interface Reference	SC32-1815
IBM Tivoli Monitoring V6.1.0	
Introducing IBM Tivoli Monitoring V6.1.0	GI11-4071
Exploring IBM Tivoli Monitoring V6.1.0	SC32-1803
IBM Tivoli Monitoring Administrator¢s Guide V6.1.0	SC32-9408
IBM Tivoli Monitoring Installation and Setup Guide V6.1.0	GC32-9407
IBM Tivoli Monitoring User¢s Guide V6.1.0	SC32-9409
IBM Tivoli Monitoring Problem Determination Guide V6.1.0	GC32-9458
IBM Tivoli Monitoring Services on z/OS Program Directory V6.1.0	GI11-4105
Configuring IBM Tivoli Enterprise Monitoring Server on z/OS V6.1.0	SC32-9463
IBM Tivoli Monitoring Services on z/OS Program Directory	GI11-4105
Installing and Upgrading OMEGAMON Platform Version 350/360-based Product and Components	SC32-1975
IBM Tivoli Monitoring: Upgrade Road Map for OMEGAMON XE Version 4.1 Monitoring Agents	GC32-1980
Program Directory	
IBM Tivoli OMEGAMON XE for CICS on z/OS V4.1.0 Program Directory	GI11-4119
IBM Tivoli OMEGAMON II for CICS	
IBM Tivoli OMEGAMON II for CICS: Configuration and Customization Guide V5.6.0	GC32-1981
IBM Tivoli OMEGAMON II for CICS: Historical Reporting Guide	GC32-9243
IBM Tivoli OMEGAMON II for CICS: Reference Volume 1	GC32-9246
IBM Tivoli OMEGAMON II for CICS: Reference Volume 2	GC32-9247
IBM Tivoli OMEGAMON II for CICS: User¢s Guide	GC32-9249
End to end	
End-to-End Response Time Feature (ETE) Reference Manual	SC32-9376

IBM Tivoli OMEGAMON XE for IMS™ on z/OS publications

Publication title	Publication number
IBM Tivoli OMEGAMON XE for IMS on z/OS V4.1.0	
IBM Tivoli OMEGAMON XE for IMS on z/OS: Planning and Configuration Guide	SC32-1865
IBM Tivoli OMEGAMON XE for IMS on z/OS: User¢s Guide	SC32-1862
IBM Tivoli OMEGAMON XE for IMS on z/OS: Problem Determination Guide	SC32-1863
IBM Tivoli Monitoring V6.1.0	
Introducing IBM Tivoli Monitoring V6.1.0	GI11-4071
Exploring IBM Tivoli Monitoring V6.1.0	SC32-1803
IBM Tivoli Monitoring Administrator¢s Guide V6.1.0	SC32-9408
IBM Tivoli Monitoring Installation and Setup Guide V6.1.0	GC32-9407
IBM Tivoli Monitoring User¢s Guide V6.1.0	SC32-9409
IBM Tivoli Monitoring Problem Determination Guide V6.1.0	GC32-9458
IBM Tivoli Monitoring Services on z/OS Program Directory V6.1.0	GI11-4105
Configuring IBM Tivoli Enterprise Monitoring Server on z/OS V6.1.0	SC32-9463
IBM Tivoli Monitoring Services on z/OS Program Directory	GI11-4105
Installing and Upgrading OMEGAMON Platform Version 350/360-based Product and Components	SC32-1975
IBM Tivoli Monitoring: Upgrade Road Map for OMEGAMON XE Version 4.1 Monitoring Agents	GC32-1980
Program Directory	
IBM Tivoli OMEGAMON XE for IMS on z/OS V4.1.0 Program Directory	GI11-4115
IBM Tivoli OMEGAMON II for IMS on z/OS	
IBM Tivoli OMEGAMON II for IMS Application Trace Facility V5.5.0	SC32-9470
IBM Tivoli OMEGAMON II for IMS Configuration and Customization Guide V5.5.0	SC32-9356
IBM Tivoli OMEGAMON II for IMS Console Facility V5.5.0 SC32-9357	SC32-9357
IBM Tivoli OMEGAMON II for IMS Transaction Reporting Facility V5.5.0	SC32-9358
IBM Tivoli OMEGAMON II for IMS Bottleneck Analysis Reference Manual V5.5.0	SC32-9359
IBM Tivoli OMEGAMON II for IMS Historical Component (EPILOG®) Reference Manual V5.5.0	SC32-9360
IBM Tivoli OMEGAMON II for IMS Historical	GC32-9361

Component (EPILOG) User¢s Guide V5.5.0	
IBM Tivoli OMEGAMON II for IMS Realtime Commands Reference Manual V5.5.0	SC32-9362
IBM Tivoli OMEGAMON II for IMS Response Time Analysis (RTA) Reference Manual V5.5.0	SC32-9363
IBM Tivoli OMEGAMON II for IMS User¢s Guide V5.5.0	GC32-9355

End to end

End-to-End Response Time Feature (ETE) Reference Manual	SC32-9376

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

Publication title	Publication number
Configuration and Customization	GC18-9979
Messages	GC18-9980
Monitoring Performance from ISPF	SC18-9981
Monitoring Performance from Expert Client	SC18-9982
Reporting Users Guide	SC18-9983
Report Reference	SC18-9984
Report Command Reference	SC18-9985
Information Roadmap	GC18-9834
IBM DB2 Buffer Pool Analyzer User¢s Guide	SC18-9986
IBM Tivoli Monitoring Services	LCD7-0836
IBM Tivoli Monitoring: Upgrade Road Map for OMEGAMON XE Version 4.1 Monitoring Agents	GC32-1980
Monitoring Performance from the OMEGAMON Classic Interface	SC18-9988
IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS Program Directory	GI10-8721
IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS License Information	GC18-9992
IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS Japanese Program Directory	GI10-8722
IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS Documentation CD-ROM	SK5T-7323
IBM Tivoli OMEGAMON Data Files for z/OS CD-ROM (z/OS common seeding CD)	LCD7-0963
IBM Tivoli Monitoring CD-ROM Vol 1 (Windows™)	LCD7-0789
IBM Tivoli Monitoring CD-ROM Vol 2 (UNIX — AIX® and Solaris)	LCD7-0790
IBM Tivoli Monitoring CD-ROM Vol 3 (UNIX — HP-UX)	LCD7-0870
IBM Tivoli Monitoring CD-ROM Vol 4 (Intel® Linux — Red Hat and SUSE)	LCD7-0791
IBM Tivoli Monitoring Services on z/OS Language Pack CD-ROM	LCD7-0792
IBM Tivoli Monitoring Services on z/OS Documentation CD-ROM	SCD7-0793
DB2 UDB Enterprise Server Edition 8.2: Windows CD-ROM	LCD7-0901
DB2 UDB Enterprise Server Edition 8.2: AIX English, French, German, Italian CD-ROM	LCD7-0900
DB2 UDB Enterprise Server Edition 8.2: AIX English, Spanish Braz Port CD-ROM	LCD7-0852
DB2 UDB Enterprise Server Edition 8.2: AIX AP Languages CD-ROM	LCD7-0853
DB2 UDB Enterprise Server Edition 8.2: Solaris CD-ROM	LCD7-0903
DB2 UDB Enterprise Server Edition 8.2: HP-UX CD-ROM	LCD7-0902
DB2 UDB Enterprise Server Edition 8.2: Linux for Intel CD-ROM	LCD7-0805
DB2 UDB Enterprise Server Edition 8.2: Linux for i and p series CD-ROM	LCD7-0806
DB2 UDB Enterprise Server Edition 8.2: Linux for S/390® CD-ROM	LCD7-0889
DB2 UDB Enterprise Server Edition 8.2: Linux for zSeries® CD-ROM	LCD7-0890

IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS publications

Publication title	Publication number
Configuration and Customization	GC18-9979
Messages	GC18-9980
Monitoring Performance from ISPF	SC18-9981
Monitoring Performance from Expert Client	SC18-9982
Reporting Users Guide	SC18-9983
Report Reference	SC18-9984
Report Command Reference	SC18-9985
Information Roadmap	GC18-9834
IBM Tivoli Monitoring Services	LCD7-0836
IBM Tivoli Monitoring: Upgrade Road Map for for OMEGAMON XE Version 4.1 Monitoring Agents	GC32-1980
Monitoring Performance from the OMEGAMON Classic Interface	SC18-9988
IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS Program Directory	GI10-8723
IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS License Information	GC18-9993
IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS Japanese Program Directory	GI10-8722
IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS Documentation CD-ROM	SK5T-7324
IBM Tivoli OMEGAMON Data Files for z/OS CD-ROM (z/OS common seeding CD)	LCD7-0963
IBM Tivoli Monitoring CD-ROM Vol 1 (Windows)	LCD7-0789
IBM Tivoli Monitoring CD-ROM Vol 2 (UNIX — AIX and Solaris)	LCD7-0790
IBM Tivoli Monitoring CD-ROM Vol 3 (UNIX — hP-UX)	LCD7-0870
IBM Tivoli Monitoring CD-ROM Vol 4 (Intel Linux — Red Hat and SUSE)	LCD7-0791
IBM Tivoli Monitoring Services on z/OS Language Pack CD-ROM	LCD7-0792
IBM Tivoli Monitoring Services on z/OS Documentation CD-ROM	SCD7-0793
DB2 UDB Enterprise Server Edition 8.2: Windows CD-ROM	LCD7-0901
DB2 UDB Enterprise Server Edition 8.2: AIX English, French, German, Italian CD-ROM	LCD7-0900
DB2 UDB Enterprise Server Edition 8.2: AIX English, Spanish Braz Port CD-ROM	LCD7-0852
DB2 UDB Enterprise Server Edition 8.2: AIX AP Languages CD-ROM	LCD7-0853
DB2 UDB Enterprise Server Edition 8.2: Solaris CD-ROM	LCD7-0903
DB2 UDB Enterprise Server Edition 8.2: HP-UX CD-ROM	LCD7-0902
DB2 UDB Enterprise Server Edition 8.2: Linux for Intel CD-ROM	LCD7-0805
DB2 UDB Enterprise Server Edition 8.2: Linux for i and p series CD-ROM	LCD7-0806
DB2 UDB Enterprise Server Edition 8.2: Linux for S/390 CD-ROM	LCD7-0889
DB2 UDB Enterprise Server Edition 8.2: Linux for zSeries CD-ROM	LCD7-0890

IBM DB2 Buffer Pool Analyzer for z/OS V4.1.0 publications

Publication title	Publication number
IBM DB2 Buffer Pool Analyzer User¢s Guide	SC18-9986
IBM DB2 Buffer Pool Analyzer Configuration Guide	SC18-9987
Information Roadmap	GC18-9834
IBM DB2 Buffer Pool Analyzer for z/OS Program Directory	GI10-8725
IBM DB2 Buffer Pool Analyzer for z/OS License Information	GC18-9994

IBM Tivoli Web Access for Information Management publications

Publication title	Publication number
IBM Tivoli Web Access for Information Management Version 1.3: Planning, Installation, and Operations Guide	SC32-1427

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 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.

Technical information

Specified operating environment

Hardware requirements: These z/OS-based products can be deployed on any IBM System z hardware system capable of running z/OS V1.4, or later and other requisite software for that product. Refer to the table in the following section for requisite programming requirements.

The z/VM and Linux-based product requires IBM System z hardware capable of supporting z/VM V5.2. The immediate-and-relative instruction facility must be present in all z/VM images.

Software requirements: Versions of all the required OMEGAMON 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.

All of the OMEGAMON family of products ship with UDB 8.2.

The following list contains the versions, releases, and maintenance levels of the components and products that are required to install and use these products:

IBM Tivoli OMEGAMON XE for CICS on z/OS V4.1.0

Mandatory requisites:

- 5694-A01 — z/OS V1.4, or later
- One of the following:
  - CICS TS V2.2, or later
  - CICS/TS V3.1, or later (PK20490 refers to null CorbaServer statistics) (PK27053 refers to an intermittent abend in the OMEGAMON service task.)
- ITM V6.1 FP3 for Dynamic Workspace Linking

Other supported subsystems:

- DB2 V7.1, or later
- IMS V8.1, or later
- WebSphere® MQ for z/OS V5.3.1, or later

IBM Tivoli OMEGAMON XE for Storage on z/OS V4.1.0

Mandatory requisites:

- One of the following:
  - 5694-A01 — z/OS V1.4, or later
  - 5655-G52 — z/OS.e V1.4, or later
- ITM V6.1 FP3 for Dynamic Workspace Linking

IBM Tivoli OMEGAMON XE for Mainframe Networks V4.1.0

Mandatory requisites:

- One of the following:
  - 5694-A01 — z/OS V1.4, or later
  - 5655-G52 — z/OS.e V1.4, or later
- ITM V6.1 FP3 for Dynamic Workspace Linking

Other supported subsystems:

- NCP V7.8.1, or later
- Requirements for monitoring OSA-Express adapters:

  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:
  - If you are running the OSA module on an IBM eServer® zSeries 900 or 800 system, you must have a LIC version of 3.33, or later installed.
  - If you are running the OSA module on an IBM eServer zSeries 990 processor, all LIC levels are supported.

IBM Tivoli OMEGAMON XE for IMS on z/OS V4.1.0

Mandatory requisites:

- 5694-A01 — z/OS V1.4, or later
- ITM V6.1 FP3 for Dynamic Workspace Linking
- One of the following:
  - 5665-C56 — IBM IMS V8.1, or later with APAR PQ98680
  - 5665-J38 — IBM IMS V9.1, or later with APAR PQ99399

Other supported subsystems:

- CICS Transaction Server V2.1, or later
- DB2 V7.1, or later
- IMS Connect Extention V1.2, or later with PTF UK 12458

IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS V4.1.0

Mandatory requisites:

- One of the following:
  - 5694-A01 — z/OS V1.4, or later
  - 5655-G52 — z/OS.e V1.4, or later
- One of the following:
  - 5675-DB2 — DB2 V7.1, or later
  - 5625-DB2 — DB2 V8.1, or later
  - 5635-DB2 — DB2 V9.1, or later
- ITM V6.1 FP3 for Dynamic Workspace Linking

Other supported subsystems:

- CICS Transaction Server V2.2, or later
- IMS V8.1, or later

IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS V4.1.0

Mandatory requisites:

- One of the following:
  - 5694-A01 — z/OS V1.4, or later
  - 5655-G52 — z/OS.e V1.4, or later
- One of the following:
  - 5675-DB2 — DB2 V7.1, or later
  - 5625-DB2 — DB2 V8.1, or later
  - 5635-DB2 — DB2 V9.1, or later
- ITM V6.1 FP3 for Dynamic Workspace Linking

Other supported subsystems:

- CICS Transaction Server V2.2, or later
- IMS V8.1, or later

IBM DB2 Buffer Pool Analyzer for z/OS V4.1.0

Mandatory requisites:

- One of the following:
  - 5694-A01 — z/OS V1.4, or later
  - 5655-G52 — z/OS.e V1.4, or later
- One of the following:
  - 5675-DB2 — DB2 V7.1, or later

  - 5625-DB2 — DB2 V8.1, or later
  - 5635-DB2 — DB2 V9.1, or later
- ITM 6.1 FP3 for Dynamic Workspace Linking

IBM Tivoli Web Access for Information Management V1.3.0

(See "To run Web Access..." instructions below)

Mandatory requisites for the host:

- One of the following:
  - 5694-A01 — z/OS V1.4, or later
  - 5655-G52 — z/OS.e V1.4, or later
- ITM V6.1 FP3 for Dynamic Workspace Linking

Mandatory operational requisites, one of the following:

- 5697-SD9 — Tivoli Information Management for z/OS V7.01.0, or later
- 5698-A08 — Tivoli Information Management for z/OS V7.01.0, or later

For operational integration:

- 5724-N54 — IBM Tivoli Availability Process Manager V1.01.0, or later
- 5724-C40 — IBM Tivoli Service Level Advisor V2.01.01 (APAR IY81695), or later

Mandatory requisites for the workstation:

- One of the following:
  - Netscape V6.0, or later
  - Microsoft™ Internet Explorer V5.5 or later

IBM Tivoli OMEGAMON XE on z/VM and Linux V4.1.0

Mandatory requisites:

- 5741-A05 — z/VM V5.2, or later
- ITM V6.1 FP3 for Dynamic Workspace Linking
- 5741-A05 Performance Toolkit Feature*
  - Preinstalled on z/VM — requires licensing
  - Extensions to support this feature available via a download (refer to the Program Directory)
- One of the following:
  - SUSE Linux Enterprise Server 9 for zSeries, 32-bit or 64-bit mode. Must be SP3, or later.
  - SUSE Linux Enterprise Server 10 for zSeries

  Recommended that monitored guests, running under z/VM, have the Linux Monitor Stream support enabled. This support is provided by Linux Kernel 2.4.21, or later, and 2.6, or later.

* Customers who have purchased either IBM Tivoli OMEGAMON for VM (5608-A56) or IBM Tivoli OMEGAMON for z/VM V6.3.2 (5608-C06), and are currently subscribed to their associated S&S (5608-S73), are entitled to a no charge upgrade to IBM Tivoli OMEGAMON XE on z/VM and Linux V4.1.0. In addition, IBM Tivoli OMEGAMON XE on z/VM and Linux V4.1.0 requires the Performance Toolkit for VM feature (5741-A05). They are also entitled to receive the Performance Toolkit, at no charge. Refer to the **Ordering information** section for additional information.

To run Web Access as an Apache httpd server on Windows:

Windows 2000 Server or Windows 2003 Server — In order to run Web Access on Windows, the following open source software packages must be installed, configured and operational:

1. *Open Object Rexx for Windows* V3.0, or later

   This package can be obtained from

   http://www.oorexx.org/

2. *Apache httpd Server for Windows* V2.0, or later

   This package can be obtained from

   http://httpd.apache.org/docs/2.0/platform/windows.html

   Note: This document, and related samples, assume the system administrator is familiar with Apache configuration and operation.
3. *Apache Mod_Rexx for Windows* V2.1, or later

   This package can be obtained from

   http://modrexx.sourceforge.net/

4. *PHP for Windows* V5.1.4, or later

   This package can be obtained from

   http://www.php.net/

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 Family of System z products are distributed with:

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

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

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.

Software Services

IBM 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 unmatched portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support any critical business need.

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

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

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 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 System p™ 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-System z™ server platforms or operating systems. For some products, this platform neutrality extends to System z and other host servers as well.

IBM Tivoli Enhanced Value-Based Pricing terminology 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 IBM Integrated Facility for Linux (IFL) engines or Linux-only engines. Engines for Coupling Facility workloads are called Integrated Coupling Facility (ICF) engines.

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 IFL 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 which 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, are supported by IBM S/390 IFL.

Millions of Service Units (MSU)

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 zSeries software pricing, refer 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 (per processor charging under full capacity)

In full capacity charging, proof of entitlements 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. Multicore technology allows two or more processors (commonly called cores) to be active on a single silicon chip. With multicore 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 IBM System z IFL environment, each IFL engine is considered a single physical processor.
4. Threading, a technique that 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.
7. Not all processors require the same number of Value Unit entitlements. To determine the number of Value Unit entitlements required, refer to the processor value unit conversion table on the Passport Advantage® Web Site

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

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 PoE are defined in the **Prices** section of the announcement or in 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. Multicore technology allows two or more processors (commonly called cores) to be active on a single silicon chip. With multicore 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 for the program′s valuation method.
4. In the IBM eServer zSeries IFL environment, each IFL engine is considered a single physical processor.
5. Threading, a technique that 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 user and/or client devices over a network. A PoE must be obtained for each server on which the program or a component of the program is run or for each server managed by the program. Where blade technology is employed, each blade is considered a separate server.

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 entitlement 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 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 pricing charge metric for program license entitlements, which is based upon the quantity of a specific designated measurement used for a given program. Each program has a designated measurement. The most commonly used designated measurements are processor cores and MSUs. However, for select programs, there are other designated measurements such as servers, users, client devices, and messages. The number of Value Unit entitlements required for your specific implementation of the given program must be obtained from a conversion table associated with the program. You must obtain a PoE for the appropriate number of Value Unit entitlements for your implementation. The Value Unit entitlements of a given program cannot be exchanged, interchanged, or aggregated with Value Unit entitlements of another program. Whenever the designated measurement is a processor core, not all processors require the same number of Value Unit entitlements. To determine the number of Value Unit entitlements required, refer to the processor Value Unit conversion table on the Passport Advantage Web Site

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

Product and licensing Web sites

A complete list of IBM Tivoli products is available at Web site

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

IBM Tivoli product licensing documents are available at Web site

http://www.ibm.com/software/tivoli /products/licensing.html

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 for Storage on z/OS
- IBM Tivoli OMEGAMON XE for CICS on z/OS
- IBM Tivoli OMEGAMON XE for Mainframe Networks
- IBM Tivoli OMEGAMON XE for IMS on z/OS
- IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS
- IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS
- IBM DB2 Buffer Pool Analyzer for z/OS
- IBM Tivoli Web Access Tivoli Information Management

System z server:

- One 1,500 MSU System z server

All products in this example employ value unit slope VUE007 (VUE = 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 z Machines Exhibit,* Z125-3901.

z/VM software pricing example (engine based)

The pricing example below should be used to determine required license entitlements for IBM Tivoli OMEGAMON for z/VM and Linux.

In the example below, the customer is managing 30 z/VM engines. Engine-based Value Units for a specified number of engines are determined by the:

Value Unit Exhibit VUE021

Level	Engine Min	Engine Max	Value Units per Engine
Base	1	3	10
Tier A	4	6	9
Tier B	7	9	8
Tier C	10	12	7
Tier D	13	16	6
Tier E	17	20	5
Tier F	21	25	4
Tier G	26+		3

Value Unit calculation

Level	Engines	Value Units per Engine	Value Units
Base	3	10	30
Tier A	3	8	27
Tier B	3	8	24
Tier C	3	7	21
Tier D	3	6	24
Tier E	4	5	20
Tier F	5	4	20
Tier G	5	3	15
Total	30		181

The customer needs to license 181 Value Units in this example.

Ordering information

The programs in this announcement have Value Unit-based pricing.

Program number	Program name	Value Unit Exhibit
5698-A37	IBM Tivoli OMEGAMON XE for Storage on z/OS	VUE007
5698-A34	IBM Tivoli OMEGAMON XE for IMS on z/OS	VUE007
5698-A35	IBM Tivoli OMEGAMON XE for Mainframe Networks	VUE007
5655-Q08	IBM Tivoli OMEGAMON XE DB2 Performance Monitor on z/OS	VUE007
5655-Q07	IBM Tivoli OMEGAMON XE DB2 Performance Expert on z/OS	VUE007
5698-A32	IBM Tivoli OMEGAMON XE for CICS on z/OS	VUE007
5655-R98	DB2 Buffer Pool Analyzer for z/OS	VUE007
5698-A15	IBM Tivoli Web Access for Information Management for z/OS	VUE007
5698-A36	IBM Tivoli OMEGAMON XE on z/VM and Linux	VUE021

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.

Value Unit Exhibit VUE021

Engine-based Value Units for a specified number of engines are determined by the following table.

Level	Engines minimum	Engines maximum	Value Units per engine
Base	1	3	10
Tier A	4	6	9
Tier B	7	9	8
Tier C	10	12	7
Tier D	13	16	6
Tier E	17	20	5
Tier F	21	25	4
Tier G	26	+	3

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

Order VM SDO and VSE SIPO through the internet

ShopzSeries provides an easy way to plan and order System z software upgrades, including z/VM. Using ShopzSeries, customers can quickly generate orders for z/VM SDOs. Additionally, ShopzSeries will ensure your order is technically correct (that is, ensures any corequisite or prerequisite or incompatibility conditions are resolved to ensure timely order placement and processing). ShopzSeries is available in the United States 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://www.ibm.com/software/ShopzSeries

z/VM SDO licensed products for z/VM V5.2 are eligible for Internet delivery using the ShopzSeries Web site. The z/VM base operating system cannot be delivered using Internet delivery of ShopzSeries.

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

Translation from MSUs to Value Units example using VUE001

	MSUs	Value Units/MSU
Base	1-3	5.25
Tier A	4-45	.83
Tier B	46-175	.35
Tier C	176-315	.26
Tier D	316+	.20

Note: For the actual translation from MSUs to Value Units for this product, refer to the table that follows.

Ordering example:

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

If the customer has installed 1,000 MSUs, the applicable Value Units would be:

Translation from MSUs to Value Units (VUE001)

	MSUs	*	Value Units/MSU	=	Value Units
Base	3	*	5.25	=	15.75
Tier A	42	*	.83	=	34.86
Tier B	130	*	.35	=	45.50
Tier C	140	*	.26	=	36.40
Tier D	685	*	.20	=	137.00
Total	1,000				270

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

Value Units for non MSU-based S/390 processors using VUE001:

```
MP3000 models
    H30         =  21.00 Value Units/Machine
    H50         =  22.00 Value Units/Machine
    H70         =  26.00 Value Units/Machine
    ESL Models  =   9.00 Value Units/Machine
```

New licensees

Orders for new licenses will be accepted now.

Shipment will begin on the planned availability date.

Basic license

Ordering information for the z/OS products

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-Q07

Entitlement identifier	Description	License option/ pricing metric
S012LZM	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
S012LZN	US 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 ASC 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-Q08

Entitlement identifier	Description	License option/ pricing metric
S012LZV	IBM Tivoli OMEGAMON XE DB2 Performance Monitor on z/OS	Basic OTC, per Value Units Trade-ups, per Value Units

Orderable supply ID	Language	Distribution medium
S012LWZ	US English	3480 Tape Cartridge

Subscription and Support PID: 5655-R08

Entitlement identifier	Description	License option/ pricing metric
S0122MV	IBM Tivoli OMEGAMON XE DB2 Performance Monitor on z/OS	SW Subscription and Support ASC 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 for z/OS

Program PID: 5655-R98

Entitlement identifier	Description	License option/ pricing metric
S012M1V	IBM DB2 Buffer Pool Analyzer for z/OS	Basic OTC, per Value Units

Orderable supply ID	Language	Distribution medium
S012M1W	US English	3480 Tape Cartridge

Subscription and Support PID: 5655-E55

Entitlement identifier	Description	License option/ pricing metric
S00VZFD	IBM DB2 Buffer Pool Analyzer for z/OS	SW Subscription and Support ASC 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-A37

Entitlement identifier	Description	License option/ pricing metric
S012S9M	IBM Tivoli OMEGAMON XE for Storage on z/OS	Basic OTC, per Value Units

Orderable supply ID	Language	Distribution medium
S012S9N	US 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 ASC 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-A34

Entitlement identifier	Description	License option/ pricing metric
S012S9B	IBM Tivoli OMEGAMON XE for IMS on z/OS	Basic OTC, per Value Units

Orderable supply ID	Language	Distribution medium
S012S9C	US 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 ASC 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 CICS on z/OS

Program PID: 5698-A32

Entitlement identifier	Description	License option/ pricing metric
S012LK1	IBM Tivoli OMEGAMON XE for CICS on z/OS	Basic OTC, per Value Units

Orderable supply ID	Language	Distribution medium
S012LKO	US English	3480 Tape Cartridge

Subscription and Support PID: 5608-S74

Entitlement identifier	Description	License option/ pricing metric
S011KWH	IBM Tivoli OMEGAMON XE for CICS on z/OS	SW Subscription and Support ASC Decline SW S&S No Charge SW S&S Registration No Charge

Orderable supply ID	Language	Distribution medium
S011KWJ	English	Hardcopy publication

Program name: IBM Tivoli Web Access for Information Management

Program PID: 5698-A15

Entitlement identifier	Description	License option/ pricing metric
S010PJG	Web Access for IBM Tivoli Information Management	Basic OTC, per Value Units

Orderable supply ID	Language	License option/ distribution medium
S010CFG	US English	3480 Tape Cartridge

Subscription and Support PID: 5698-S49

Entitlement identifier	Description	License option/ pricing metric
S010L8N	Web Access for IBM Tivoli Information Management	SW Subscription and Support ASC Decline SW S&S No Charge SW S&S Registration No Charge

Orderable supply ID	Language	Distribution medium
S010L6B	English	Hardcopy publication

Program name: IBM Tivoli OMEGAMON XE for Mainframe Networks

Program PID: 5698-A35

Entitlement identifier	Description	License option/ pricing metric
S012LKR	IBM Tivoli OMEGAMON XE for Mainframe Networks	Basic OTC, per Value Units

Orderable supply ID	Language	License option/ distribution medium
S012LKS	US English	3480 Tape Cartridge (for Mainframe Networks)
S012LKV	US English	3480 Tape Cartridge (using NetView® Performance Monitor)

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 ASC Decline SW S&S No Charge SW S&S Registration No Charge

Orderable supply ID	Language	Distribution medium
S011KWM	English	Hardcopy publication

Ordering information for the z/VM product

Program name: IBM Tivoli OMEGAMON XE on z/VM and Linux

Program PID: 5698-A36

Entitlement identifier	Description	License option/ pricing metric
S012L23	IBM Tivoli OMEGAMON XE on z/VM and Linux	Use-based OTC, per Value Units

Orderable supply ID	Language	Distribution medium
S012L24	US English	3480 Tape Cartridge

Subscription and Support PID: 5608-S73

Entitlement identifier	Description	License option/ pricing metric
S011KW3	IBM Tivoli OMEGAMON XE on z/VM and Linux	SW Subscription and Support ASC Decline SW S&S No Charge SW S&S Registration No Charge

Orderable supply ID	Language	Distribution medium
S011KW4	English	Hardcopy publication

Ordering information for On/Off Capacity on Demand (On/Off CoD)

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

IBM Tivoli OMEGAMON XE DB2 Performance Expert on z/OS	5655-Q07
IBM Tivoli OMEGAMON XE DB2 Performance Monitor on z/OS	5655-Q08
DB2 Buffer Pool Analyzer for z/OS	5655-R98
IBM Tivoli OMEGAMON XE for Storage on z/OS	5698-A37
IBM Tivoli OMEGAMON XE for IMS on z/OS	5698-A34
IBM Tivoli OMEGAMON XE for CICS on z/OS	5698-A32
IBM Tivoli Web Access for Information Management	5698-A15
IBM Tivoli OMEGAMON XE for Mainframe Networks for z/OS	5698-A35

The following product is eligible for On/Off CoD with a Temporary Use Charge calculated based on processor day usage.

IBM Tivoli OMEGAMON XE on z/VM and Linux	5698-A36

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

Program PID: 5655-Q07

Entitlement identifier	Description	License option/ pricing metric
S012LZM	IBM Tivoli OMEGAMON XE DB2 Performance Expert on z/OS	Basic OTC, Per MSU-day TUC

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

Program PID: 5655-Q08

Entitlement identifier	Description	License option/ pricing metric
S012LZV	IBM Tivoli OMEGAMON XE DB2 Performance Monitor on z/OS	Basic OTC, Per MSU-day TUC

Program name: DB2 Buffer Pool Analyzer for z/OS

Program PID: 5655-R98

Entitlement identifier	Description	License option/ pricing metric
S012M1V	DB2 Buffer Pool Analyzer for z/OS	Basic OTC, Per MSU-day TUC

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

Program PID: 5698-A37

Entitlement identifier	Description	License option/ pricing metric
S012S9M	IBM Tivoli OMEGAMON XE for Storage on z/OS	Basic OTC, Per MSU-day TUC

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

Program PID: 5698-A34

Entitlement identifier	Description	License option/ pricing metric
S012S9B	IBM Tivoli OMEGAMON for IMS on z/OS	Basic OTC, Per MSU-day TUC

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

Program PID: 5698-A32

Entitlement identifier	Description	License option/ pricing metric
S012LK1	IBM Tivoli OMEGAMON XE for CICS on z/OS	Basic OTC, Per MSU-day TUC

Program name: IBM Tivoli Web Access for Information Management

Program PID: 5698-A15

Entitlement identifier	Description	License option/ pricing metric
S010PJG	IBM Tivoli Web Access for Information Management	Basic OTC, Per MSU-day TUC

Program name: IBM Tivoli OMEGAMON XE for Mainframe Networks

Program PID: 5698-A35

Entitlement identifier	Description	License option/ pricing metric
S012LKR	IBM Tivoli OMEGAMON XE for Mainframe Networks	Basic OTC, Per MSU-day TUC

Program Name: IBM Tivoli OMEGAMON XE on z/VM and Linux

Program PID: 5698-A36

Entitlement identifier	Description	License option/ pricing metric
S012L23	IBM Tivoli OMEGAMON XE on z/VM and Linux	Basic OTC, Per Processor Day TUC

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.

Customization option for OS/390

Select the following feature number to customize your order if running on the OS/390 platform. This feature can be specified on the initial or MES orders.

Feature number	Description
3450	Satellite Electronic Delivery

Waiver of Performance Toolkit OTC for current customers: Customers who have purchased either IBM Tivoli OMEGAMON for VM (5608-A56) or IBM Tivoli OMEGAMON for z/VM V6.3.2 (5608-C06) and are currently subscribed to their associated S&S (5608-S73), are entitled to a no charge upgrade to the IBM Tivoli OMEGAMON XE on z/VM and Linux V4.1. In addition, IBM Tivoli OMEGAMON XE on z/VM and Linux V4.1.0 requires the Performance Toolkit for VM feature (5741-A05). They are also entitled to receive the Performance Toolkit, at no charge. If you desire the level of service provided under the IBM ICA license agreement with System z and z/VM licensed products, you are strongly encouraged to order the program number for z/VM S&S (5741-SNS) for the Performance Toolkit. This program number provides enhanced support that includes telephone assistance (voice support for defects during normal business hours) and access to updates, releases, and versions of the program for as long as support is in effect. z/VM S&S will be automatically added to your order. If you do not desire the S&S license for the Performance Toolkit for VM, you must take specific action to decline this support.

If customer has entitlement and subscribed S&S to:		Then:
PID 5608-A56 or 5608-C06 IBM Tivoli OMEGAMON for VM IBM Tivoli OMEGAMON for z/VM	PID 5741-A05 Performance Toolkit for VM	Ordering Process
Yes	Yes	No charge upgrade to 5698-A36
Yes	No	No charge upgrade to 5698-A36 & 5741-A05
No	Yes	Must purchase 4698-A36
No	No	Must purchase 5698-A36 & 5741-A05

Note: The no-charge upgrades described above do not include associated S&S. Customers are strongly encouraged to order the applicable S&S. S&S for

5698-A36 IBM Tivoli OMEGAMON XE on z/VM and Linux and 5741-A05 Performance Toolkit for VM will be automatically added to order. If S&S for the Performance Toolkit for VM is not desired, specific action to decline this support must be taken.

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 (IPLA) and License Information document. PoEs are required for all authorized use.

These programs are licensed under the 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 includes a warranty for one year from acquisition from IBM or an authorized IBM Business Partner. For one year from acquisition of the program, this warranty provides the customer with access to databases containing program information and FAQs, including any known fixes to defects, which the customer can download or otherwise obtain and install.

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 and you are the original licensee, 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. For clarification, note that for programs acquired under any of IBM′s On/Off CoD software offerings, this term does not apply since these offerings apply to Programs already acquired and in use by the customer.

Copy and use on home/portable computer: No

Volume orders (IVO): No

Passport Advantage applies: No

Software Maintenance 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

Variable charges apply: No

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

Replacement products

Over time, customers will be contacted by IBM to migrate their use entitlements from the current portfolio to the new version of a product. The table that follows provides a mapping. No trade-up charges (a trade-up is an incremental license fee to move up from one product to another) apply for the products listed below. 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 (z/OS) or engine-based Value Units z/VM)). 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.

Products listed below are entitled under the above statement:

Existing product	Existing product name	Replacement	Replacement product name	Upgrade charge
5698-A46	IBM Tivoli OMEGAMON XE for Storage on z/OS V3.1.0	5698-A37	IBM Tivoli OMEGAMON XE for Storage on z/OS V4.1.0	No
5698-A40	IBM Tivoli OMEGAMON XE for Mainframe Networks V3.1.0	5698-A35	IBM Tivoli OMEGAMON XE for Mainframe Networks V4.1.0	No
5698-A58	IBM Tivoli OMEGAMON XE for CICS on z/OS V3.1.0	5698-A32	IBM Tivoli OMEGAMON XE for CICS on z/OS V4.1.0	No
5698-A39	IBM Tivoli OMEGAMON XE for IMS on z/OS V3.1.0	5698-A34	IBM Tivoli OMEGAMON XE for IMS on z/OS V4.1.0	No
5655-P07	IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS V3.1.0	5655-Q07	IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS V4.1.0	No
5655-P08	IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS V3.1.0	5655-Q08	IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS V4.1.0	No
5655-P98	IBM DB2 Buffer Pool Analyzer for z/OS V3.1.0	5655-R98	IBM DB2 Buffer Pool Analyzer for z/OS V4.1.0	No

Customers who have purchased the IBM Tivoli OMEGAMON for z/VM product (listed below), and are currently subscribed to the associated S&S (5608-S73), are entitled to a no charge upgrade to the new IBM Tivoli OMEGAMON XE on z/VM and Linux product. This new OMEGAMON does have a prerequisite for the Performance Toolkit for VM (5741-A05), which will

automatically be added to the order at no charge for customers currently subscribed to S&S

Existing product	Existing product name	Replacement	Replacement name
5608-C06	IBM Tivoli OMEGAMON For z/VM V6.3.1 or V6.3.2	5698-A36	IBM Tivoli OMEGAMON XE on z/VM and Linux V4.1.0

Note: The no-charge upgrades, described above, do not include associated S&S. Customers are strongly encouraged to order the applicable S&S. S&S for 5698-A36 IBM Tivoli OMEGAMON XE on z/VM and Linux and 5741-A05 Performance Toolkit for VM will be automatically added to order. If S&S for the Performance Toolkit for VM is not desired, specific action to decline this support must be taken.

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-A37	IBM Tivoli OMEGAMON XE for Storage on z/OS V4	z/OS		
5698-A35	IBM Tivoli OMEGAMON XE on Mainframe Networks V4	z/OS		
5698-A15	IBM Tivoli Web Access for Information Management V3	z/OS		
5698-A34	IBM Tivoli OMEGAMON XE for IMS on z/OS V4	Ref.	5655-C56	IMS V8
5698-A34	IBM Tivoli OMEGAMON XE for IMS on z/OS V4	Ref.	5655-J38	IMS V9
5698-A32	IBM Tivoli OMEGAMON XE for CICS on z/OS V4	Ref.	5697-E93	CICS V2
5698-A32	IBM Tivoli OMEGAMON XE for CICS on z/OS V4	Ref.	5655-M15	CICS V3
5655-Q07	IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS V4	Ref.	5675-DB2	DB2 V7
5655-Q07	IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS V4	Ref.	5625-DB2	DB2 V8
5655-Q07	IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS V4	Ref.	5635-DB2	DB2 V9
5655-Q08	IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS V4	Ref.	5675-DB2	DB2 V7
5655-Q08	IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS V4	Ref.	5625-DB2	DB2 V8
5655-Q08	IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS V4	Ref.	5635-DB2	DB2 V9
5655-R98	IBM DB2 Buffer Pool Analyzer for Z/OS V4	Ref.	5675-DB2	DB2 V7
5655-R98	IBM DB2 Buffer Pool Analyzer for Z/OS V4	Ref.	5625-DB2	DB2 V8
5655-R98	IBM DB2 Buffer Pool Analyzer for Z/OS V4	Ref.	5635-DB2	DB2 V9

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 zSeries IPLA program with these terms equals the MSU rated capacity of the machines where the zSeries IPLA program executes.

For more information on mainframe MSU-rated capacities, visit the Web site

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

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.

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 MLC program. This MLC program is called the parent program.

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 IBM System z Machines Exhibit* (Z125-3901), or visit the “Mainframes” section of the System z 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

Additional information for products with reference-based terms — zSeries IPLA sub-capacity programs with reference-based terms adds 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 System z (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 IBM 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 EWLC, TWLC, zELC, and z/OS.e License Charges (Z125-6587).

Additionally, you must sign and comply with the terms and conditions specified in the amendment to the IPLA contract — *Amendment for System z Programs Sub-Capacity Pricing* (Z125-6929). 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).

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

On/Off CoD

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 eServer 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 available on the IBM eServer platform. These services provide the opportunity for 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 no-additional-charge software that resides on your IBM eServer 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 may result in 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.

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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-Q07

Entitlement identifier	Description	License Option/ pricing metric
SO12LZM	IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS	Basic OTC, per Value Units Trade-ups, per Value Units

Subscription and Support PID: 5655-RO7

Entitlement identifier	Description	License option/ pricing metric
SO122MR	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-Q08

Entitlement identifier	Description	License option/ pricing metric
SO12LZV	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-RO8

Entitlement identifier	Description	License option/ pricing metric
SO122MV	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 for z/OS

Program PID: 5655-R98

Entitlement identifier	Description	License option/ pricing metric

S012M1V	IBM DB2 Buffer Pool Analyzer for 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 for 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-A37

Entitlement identifier	Description	License option/ pricing metric
S012S9M	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-A34

Entitlement identifier	Description	License option/ pricing metric
S012S9B	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-A35

Entitlement identifier	Description	License option/ pricing metric
S012LKR	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 for CICS on z/OS

Program PID: 5698-A32

Entitlement identifier	Description	License option/ pricing metric
S012LK1	IBM Tivoli OMEGAMON XE for CICS on z/OS	Basic OTC, per Value Units

Subscription and Support PID: 5608-S74

Entitlement identifier	Description	License option/ pricing metric
S011KWH	IBM Tivoli OMEGAMON XE for CICS 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 on z/VM and Linux

Program PID: 5698-A36

Entitlement identifier	Description	License option/ pricing metric
S012L23	IBM Tivoli OMEGAMON XE on z/VM and Linux	Use-base OTC, per Processor Day TUC

Subscription and Support PID: 5608-S73

Entitlement identifier	Description	License option/ pricing metric
S011KW3	IBM Tivoli OMEGAMON XE on z/VM and Linux	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge

Program Name: IBM Tivoli Web Access for Information Management

Program PID: 5698-A15

Entitlement identifier	Description	License option/ pricing metric
S010PJG	IBM Tivoli Web Access for Information Management	Basic OTC, per Value Units

Subscription and Support PID: 5698-S49

Entitlement identifier	Description	License option/ pricing metric
S010L8N	IBM Tivoli Web Access for Information Management	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge

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