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

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

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

This announcement includes information on the following products:

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

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

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

Refer to Software Announcement A05-0796, dated June 21, 2005.

Key prerequisites
Refer to the Software requirements section.

Planned availability dates

- November 25, 2005
  - IBM Tivoli OMEGAMON XE on z/OS V3.1.0
  - IBM Tivoli OMEGAMON XE for Storage on z/OS V3.1.0
  - IBM Tivoli OMEGAMON XE for Mainframes Network on z/OS V3.1.0
  - IBM Tivoli OMEGAMON XE for IMS on z/OS V3.1.0

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

At a glance

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

This announcement is provided for your information only. For additional information, contact your IBM representative.
**IBM Tivoli OMEGAMON XE on z/OS V3.1.0**

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

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

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

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

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

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

Additional functionality includes:

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

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

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

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

**IBM Tivoli OMEGAMON XE for Mainframe Networks V3.1.0**

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

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

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

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

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

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

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

The Tivoli OMEGAMON XE or DB2 Performance Expert on z/OS V3.1.0 product will include all the functionality of the three products plus new capabilities. This product will combine the functions offered by OMEGAMON XE and OMEGAMON DE, adds the enterprise-wide integration capabilities to create
unparalleled cross-platform management of mission-critical relational databases.

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

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

Trade-ups are available to:

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

Refer to the Replacement and Ordering section for details.

DB2 Buffer Pool Analyzer on z/OS V3.1.0

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

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

- Data collection of virtual buffer pool activity via the DB2 IFI interface
- Comprehensive reporting of the buffer pool activity, including:
  - Ordering by various identifiers (for example, buffer pool, plan, object, primary authorization id)
  - Sorting by, for example, getpage, sequential prefetch and synchronous read
  - Filtering capability
- Simulation of buffer pool usage for:
  - Varying buffer pool size
  - Different object placement
- Display of report and simulation results on workstation in form of spreadsheets, graphs and diagrams

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

Value Unit-based pricing

Value Unit pricing for eligible zSeries IPA programs enables a lower cost of incremental growth and enterprise aggregation. Each zSeries IPA 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 IPA 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 IPA program that you have acquired is referred to as “entitled license capacity.” If you wish to grow your entitled license capacity for a zSeries IPA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each zSeries IPA program with Value Unit Pricing, you should:

- Determine the required license capacity, in MSUs
- Aggregate the MSUs across the enterprise
- Convert the total MSUs to Value Units, using the applicable Value Unit Exhibit
- Multiply the price per Value Unit by the total number of Value Units to determine the total cost

To simplify conversion from the designated measurement to Value Units or vice-versa, use the Value Unit Converter Tool. For additional information or to obtain a copy of the Value Unit Converter Tool, visit the Value Unit Converter Tool Web site

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

Note that Value Units of a given product cannot be exchanged, interchanged or aggregated with Value Units of another product.
To determine the required license capacity for the zSeries IPLA program you selected, refer to the Terms and conditions section.

**IPLA and Subscription and Support considerations**

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

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

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**Product positioning**

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

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

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

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

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

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

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

**Trade-marks**

Tivoli Enterprise, IMS, and MVS are trade-marks of International Business Machines Corporation used under license by IBM Canada Ltd. OMEGAMON, Tivoli, z/OS, DB2, OMEGAVIEW, OMEGAVIEW II, OMEGAMON II, zSeries, DB2 Connect, OS/390, NetView, Transplex, CICS, Tivoli Enterprise Console, and WebSphere are registered trade-marks of International Business Machines Corporation used under license by IBM Canada Ltd.

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