Maximize database performance

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

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**Highlights**

- Extend the capabilities of IBM Tivoli NetView® and IBM Tivoli Enterprise Console® by identifying the root cause of network problems
- Help optimize the performance of IBM DB2 on z/OS applications
- Enjoy substantial breadth and depth of monitoring within DB2 environments by combining batch reporting capabilities with real-time monitoring and historical tracking functions
- Support an enterprise-wide integrated systems management strategy activated by the IBM Tivoli OMEGAMON XE family
- Make the migration from IBM Tivoli OMEGAMON XE for DB2 on z/OS and IBM DB2 Performance Monitor for z/OS smoother by using familiar interfaces

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**Lift database performance to new heights**

Having the right information precisely when you need it is critical for a business to remain agile and responsive in today’s economy. Companies rely on DB2® on z/OS® applications to manage their vital corporate and customer-related information. To help automate time-consuming manual tasks and better optimize the performance of these important systems, turn to IBM Tivoli® OMEGAMON® XE for DB2 Performance Monitor on z/OS.

Comprehensive and reliable, Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS permits you to monitor, analyze and optimize the performance of DB2 on z/OS applications in two key modes: online, in real time with immediate alerts when problems occur, and batch, in reports.

The software merges functions from Tivoli OMEGAMON XE for DB2 on z/OS and DB2 Performance Monitor on z/OS products to provide a single engine for performance data collection logic. The product maintains familiar interfaces to help users transition to the new product. Plus, you can use the same installation and configuration tool that is used for all Tivoli OMEGAMON XE configuration activities — allowing integration with and management of your entire Tivoli OMEGAMON XE monitoring suite.

Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS helps you resolve critical performance issues. Use it to monitor:

- Individual data-sharing members or entire data-sharing groups.
- Applications running in a parallel query environment, even if the parallel tasks are executed on different processors.
- Near-term performance history to see problems that otherwise go unnoticed and prevent them in the future.
- Object analysis of database disks, tables, table spaces and other elements to tune performance.
**Analyze and automatically tune output**

To achieve a historical snapshot of DB2 activities on z/OS, use the online monitoring feature of Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS. With its exception processing, you can automatically route immediate alerts to the end-user interface or to a user exit.

Additionally, a wide range of sophisticated, customizable reports let you perform in-depth analysis of problems with your applications or DB2 system. Reports can:

- Provide statistics for a given application, such as elapsed time, time spent in DB2, read-and-write activity, locks obtained and structured query language (SQL) statements executed.
- Help anticipate potential bottlenecks — detect event exceptions and activities that exceed user-defined thresholds, and take appropriate actions through a user exit.
- Better optimize SQL statements by explaining their access paths.

To make repeated analysis easier, Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS includes a performance warehouse that stores performance data and analysis tools. The performance warehouse’s autonomic, self-managing capacities allow you to define, schedule and run automated processes such as:

- Converting and loading reports.
- Saving DB2 trace and report data for further investigation and trend analysis.
- Upgrading the performance database tables.

**Help protect your investment in critical information**

By using Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, you help maximize the capacity, reliability and availability of your DB2 on z/OS environment. As a result, your business can use critical corporate and customer-related data to operate in a highly agile, dynamic fashion.

**Allow end-to-end monitoring through tight integration with other Tivoli monitoring tools**

Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS is part of the IBM portfolio of performance management tools. Because Tivoli OMEGAMON XE monitors use the IBM Monitoring 6.1 shared technologies, they support efforts to centralize mainframe and distributed monitoring functions onto a single user interface: IBM Tivoli Enterprise™ Portal. The shared technologies also include:

- Dynamic Workspace Linking, which enables users to link in context between Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS and other installed Tivoli monitoring tools. For example, a user could switch to IBM Tivoli OMEGAMON XE for CICS® on z/OS workspaces to monitor CICS DB2 threads, or to IBM Tivoli OMEGAMON XE for IMS™ on z/OS to monitor IMS DB2 threads.
- Support for IBM Tivoli Data Warehouse, which aggregates and prunes monitoring data from Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS and other monitoring tools to help improve historical reporting.
- Agent versioning support, which facilitates migration to new OMEGAMON XE releases each time expanded capabilities become available.
Help maximize the value of your IT investments with a single point of control

Performance and availability problems aren’t limited to a single platform, so Tivoli OMEGAMON XE solutions identify and track problems across your enterprise, allowing you to see information from multiple OMEGAMON XE monitors and third-party software — in a single location. This helps you make decisions quickly, efficiently and proactively.

IBM Tivoli OMEGAMON DE provides data integration between Tivoli OMEGAMON XE solutions that you can use to:

- Correlate reports in customizable workspaces.
- Build business and technical views geared to users’ responsibilities.
- Allow policy-based, automated response to correlated data.

For example, you can use Tivoli OMEGAMON DE with Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, which allows you to implement end-to-end or IBM Transplex® monitoring, such as of a unit of work or an IBM CICS transaction throughout the managed enterprise.

Integrate with other innovative capabilities

In addition to combining batch reporting, real-time monitoring and historical tracking features, Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS offers:

- Complete support for DB2 on z/OS, Version 9, including new counters and system parameters to the end user.
- Support for IBM System z9™ Integrated Information Processor (zIIP) usage from a DB2 perspective.
- The ability to explain SQL text captured through OMEGAMON XE for DB2 PE Classic VTAM® displays using IBM DB2 SQL Performance Analyzer (if installed) to reveal active thread, EDM pool and thread history.
- Launching from IBM DB2 Control Center and direct connection to IBM DB2 Visual Explain.
- Monitoring of IBM DB2 Connect™ through the included IBM Tivoli Enterprise Portal and 3270 classic interface.
- SAP and Oracle support for extended identification fields such as End User ID, Transaction ID and Workstation ID.

DB2 Connect metrics for a connecting DB2 gateway can reveal stolen agents or MAXAGENT overflows that can help you tune resources for maximum efficiency.
About Tivoli software from IBM

Tivoli software from IBM helps organizations efficiently and effectively manage information technology (IT) resources, tasks and processes in order to meet ever-shifting business requirements and deliver flexible and responsive IT service management, while helping to reduce costs. The Tivoli portfolio spans software for security, compliance, storage, performance, availability, configuration, operations and IT lifecycle management, and is backed by world-class IBM services, support and research.

For more information

Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS is part of the IBM portfolio of performance management tools that includes IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS and others. To learn more, please contact your IBM representative or IBM Business Partner, or visit ibm.com/software/data/db2imstools.

You can also access product information, hints and tips, frequently asked questions, IBM Redbooks, IBM tools specialists and IBM Business Partner services at ibm.com/software/data/db2imstools/support.html.

When ordering Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, please refer to program number 5655-Q08.

### IBM Tivoli OMEGAMON products for IBM System z™ include:

- IBM Tivoli OMEGAMON XE on z/OS
- IBM Tivoli OMEGAMON XE for Linux on System z
- IBM Tivoli OMEGAMON on z/VM® and Linux

#### Data management:
- IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS
- IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS
- IBM Tivoli OMEGAMON XE for IMS on z/OS

#### Host transaction processing:
- IBM Tivoli OMEGAMON XE for CICS on z/OS

#### Networking:
- IBM Tivoli OMEGAMON XE for Mainframe Networks

#### Storage management:
- IBM Tivoli OMEGAMON XE for Storage on z/OS

#### Integration:
- IBM Tivoli OMEGAMON DE on z/OS
**Requirements and supported software**

- **DB2 on z/OS** (formerly IBM DB2 Universal Database™, Version 7 or later, running under z/OS, Version 1.4 or higher (including related IBM SMP/E, interactive system productivity facility [ISPF], IBM TSO, IBM DFSMS, IBM DFSORT™ and TCP/IP support)
- For online monitoring: IBM VTAM, an ISPF, or Microsoft® Windows® 2000 or Windows XP
- For the performance warehouse or for SQL activity tracing: IBM DB2 Runtime Client, Version 8 (or a DB2 product that includes it)
- For integration with DB2 Visual Explain: IBM DB2 Administration Client, Version 8 or later, or any other DB2 on z/OS, Version 8 or later
- For integration with SQLPA, IBM DB2 SQL Performance Analyzer, Version 2.2.2 or later
- For monitoring DB2 Connect, DB2 Connect Enterprise Edition or DB2 Connect Unlimited Edition, Version 8 or later
  - IBM AIX®, Version 5.1 or later
  - HP-UX, Version 11i or later
  - Sun Solaris, Version 8 or later
  - Linux® Kernel, Version 2.4.10 or later
  - Windows 2000 Service Pack 2, Windows XP
- For the Web client, the IBM Tivoli Enterprise Portal Server requires Java™ RTE 1.5.0 and the Tivoli Enterprise Portal requires Java RTE 1.3.1_04
- Additional support for IBM IMS, Versions 7.1, 8.1 and 9.1; and CICS, Versions 2.2, 2.3 and 3.1