

Cross-enterprise visibility with redesigned IBM Tivoli OMEGAMON family

*Optimize IT service management flexibility, reduce costs,
increase productivity and decrease risk*



Highlights

- Redesigned user interface provides expansive enterprise view
- Built-in best practices based on problem-solving scenarios streamline problem resolution
- Autonomic functions for data synchronization simplify and speed installation and maintenance
- The use of fewer compute resources and address spaces helps reduce complexity and improve overall system performance
- Ability to monitor different components of the IBM zEnterprise™ System provides complete visibility across the enterprise

Robust enterprise management starts with the OMEGAMON family

IT departments are increasingly challenged to support more systems with greater efficiency and a shrinking budget. An increasingly competitive marketplace has dictated the need for innovative ways to improve business processes, reduce enterprise expenses and boost workforce effectiveness. One way to achieve these performance management demands is with increased visibility across the enterprise IT infrastructure that supports business—but how?

Introducing the IBM Tivoli® OMEGAMON® Extended Edition (XE) V5.1 family. Working with subject matter experts (SMEs) who use these tools, OMEGAMON has been redesigned to provide a total performance, availability and management solution. This portfolio features expanded capabilities, driven by customer and marketplace demands, that greatly simplify the task of managing the performance of the integrated IBM System z® environment. This efficiency is especially valuable for today’s smarter planet, where instrumented, interconnected and intelligent businesses collect, process, use and store more information in larger and more complex environments than ever before.

The OMEGAMON V5.1 family of products can reduce the cost of enterprise-wide server monitoring and management with a flexible, intuitive user interface (UI) and improved information gathering and analytics capabilities. This enhanced 3270 UI provides integrated, “single pane of glass” visibility into IBM z/OS® performance, availability and management with a more complete view of the z/OS platform, including the operating system, sub-systems, storage and network layers.

IBM Tivoli OMEGAMON family

IBM z/OS, IBM CICS, IBM DB2,
Information management system group,
mainframe network, IBM System Storage,
Linux, messaging

Enterprise Summary						
All Active Sysplexes						
<Sysplex Name	ΔAverage VCPU Percent	Highest LPAR Name	ΔHighest VLPAR CPU%	ΔPercent LPAR VWSU Capacity	↑LPAR Name	Group
ZPETPLX2	3	Z2	3	3.4	N/A	

All Active CICSplexes						
ΔCICSplex VName	ΔNumber of VRegions	ΔTransaction VRate	ΔCPU VUtilization	Any SOS Regions	SOS Region	
OMEGPLEX	1	0/m	0.3%	No	n/a	
TESTPLEX	8	10985/m	18.4%	No	n/a	
WUIPLEX	1	0/m	0.0%	No	n/a	

Figure 1: The enhanced 3270 UI screen displays a unified view across all of the systems and subsystems—consolidate needed information to one screen, instead of many.

Enhanced user interface provides expansive enterprise view

It is now easier than ever to monitor and manage the mainframe environment. The enhanced 3270-based UI provides an integrated view and control of the z/OS operating system and multiple z/OS subsystems—including IBM Customer Information Control System (CICS®), IBM DB2® and more. With OMEGAMON V5.1, users can effectively move between different z/OS components to provide a common look and feel of command and control conditions.

Streamlined problem resolution

The enhanced 3270-based UI in OMEGAMON V5.1 also helps users find and fix problems—before they become outages—faster and easier, by offering improved performance and availability management.

The enhanced UI comes designed with a set of built-in best practices based on problem-solving scenarios developed with customer feedback to tackle key challenges they routinely face.

These scenarios describe conditions or sets of conditions users can examine to determine if a potential problem exists in the monitored systems and resources. This enables data center teams to find the problems that the system (or the end users) report on, faster.

In addition, a better flow of information through the 3270-based UI contributes to better problem solving. System programmers can now organize their own key performance indicators (KPIs), and the UI will arrange the information based on their jobs and responsibilities, providing cross-pillar visibility. This enables them to perform more efficient analytics, since there is a smaller amount of data generated from performance metrics—and it's the data that users request through configuration. Users can then use this data to resolve problems on the z/OS system and its subsystems by following interrelated problems identified from the same user session—taking fewer steps to find the root cause of the performance impact, in real time. These efficiency enhancements lead to higher system availability.

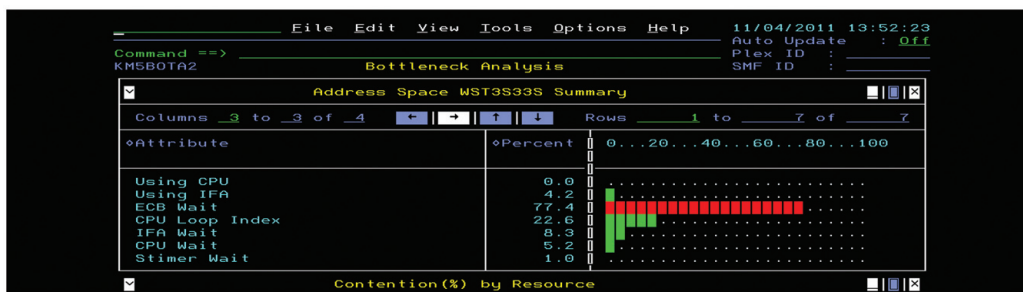


Figure 2: This Address Space Analysis screen enables users to graphically identify and manage z/OS resource consumers with ease.

Problem-solving scenario: Overall health

Using the OMEGAMON V5.1 enhanced 3270 UI, a SME can view the overall health of the System z system and subsystems with better visibility of the pertinent KPIs.

Here is the scenario:

- The system programmer receives notification of a client's lack of responsiveness from the applications he/she uses.
- The enhanced 3270 UI enables the SME to view an enterprise summary of the operating system, subsystems, mainframe network and storage.
- Thanks to this integrated summary view, the SME can quickly identify the exceptions, at a sysplex level, that are impacting users.
- Once the problems are identified, the SME can move to a local view of the KPIs associated with each problem, and then to the root cause, to provide a resolution on the address space, resource, interface or storage device—all from the same enhanced UI.

Simplified installation and maintenance

Version 5.1 of OMEGAMON also features enhanced installation and maintenance capabilities that simplify and speed both processes, making them less prone to error.

Using more autonomic functions for data synchronization, this version of OMEGAMON has made it simpler and faster to install and build the run-time environment. The OMEGAMON strategic methodology is based on parameter library (PARMGEN) interactions and self-describing agents to provide a faster, more standards-based user experience when performing upgrades or new installations. This decreases the number of parameters and jobs needed to perform maintenance and reduces both errors and the maintenance time window.

These infrastructure changes help provide a faster time to value, reduce the full-time equivalent staff time required for installation and support, and help lower the total cost of ownership.

Improved performance

OMEGAMON V5.1 uses less compute resource and requires fewer address spaces than previous versions. These enhancements are designed to reduce complexity and improve overall system performance.

The OMEGAMON XE for CICS product features a service-level analysis capability as part of the enhanced 3270 UI. This capability exploits IBM System z Integrated Information Processor (zIIP) specialty processors, when available, offloading millions of instructions per second (MIPS) from the CPU to the specialty processors—which can improve mainframe performance and lower the total cost of ownership.

Interoperability with IBM zEnterprise System

Additionally, OMEGAMON V5.1 can monitor the different components of IBM zEnterprise, providing complete visibility across the enterprise.

OMEGAMON V5.1 is designed to extend System z service and management capabilities across a set of integrated, fit-for-purpose IBM POWER7® and IBM System x® compute elements in zEnterprise called the zEnterprise BladeCenter® Extension. The Tivoli OMEGAMON portfolio provides integrated end-to-end monitoring, alerting, discovery, automation, storage and security solutions. These features are designed to take advantage of the zEnterprise system's (including zEnterprise BladeCenter Extension) monitoring and management capabilities provided by the Unified Resource Manager application programming interface (API) support.

Comprehensive problem management with improved visibility

OMEGAMON V5.1 is an integrated, modernized problem-management set of tools completely driven by customer and marketplace demands. This version features unmatched visibility across the enterprise server environment, faster problem resolution, improved installation and management, reduced resource utilization and overall ease of use. It is designed to help systems programmers and data center teams more efficiently monitor and manage performance and availability across the z/OS infrastructure, contributing to greater uptime and productivity.

For more information

To learn more about how the IBM Tivoli OMEGAMON V5.1 family can help you view into and across your z/OS enterprise systems and subsystems, contact your IBM representative or IBM Business Partner, or visit: ibm.com/omegamon, where you'll find webcasts, data sheets and more.

About Tivoli software from IBM

Tivoli software from IBM helps organizations efficiently and effectively manage IT resources, tasks and processes to meet ever-shifting business requirements and deliver flexible and responsive IT service management, while helping to reduce cost. 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 on Tivoli software from IBM, visit: ibm.com/tivoli

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