



IBM Tivoli OMEGAMON XE for Mainframe Networks

Highlights

- ***Improve service availability and end-user productivity by proactively isolating, diagnosing, and repairing poor or unstable TCP/IP connections that hamper application performance before service levels are impacted***
- ***Increase operational productivity by centralizing and standardizing network performance management across multiple mainframe systems and TCP/IP stacks***
- ***Reduce business risk and TCO of the mainframe by easily integrating OMEGAMON XE for Mainframe Networks with other service management tools for standardized enterprise-wide event, incident, problem, and availability management processes***

IBM Tivoli® OMEGAMON® XE for Mainframe Networks helps you stay ahead of those performance lags by managing the health of your network connections proactively. It enables users to proactively fine-tune, troubleshoot, and diagnose mainframe network performance for WebSphere®, CICS®, DB2®, IMS, and other critical applications. Within your z/OS® environment, Tivoli OMEGAMON XE for Mainframe Networks analyzes TCP/IP performance—with TN3270, FTP, high-performance routing/enterprise extender (HPR/EE) and other key communications systems—and alerts you to slow, unstable, or unavailable network connections, adapters, file transfers, and TN3270 sessions. A vast range of metrics helps you pinpoint where TCP/IP stack problems, network traffic flow, bottlenecks and slow throughput may cause workflow delays.

Tivoli OMEGAMON XE for Mainframe Networks also lets you see the actual service your end users receive, to help you fine-tune systems before application stakeholders and customers have reason to complain.

For added flexibility when migrating from IBM VTAM® to TCP/IP, Tivoli OMEGAMON XE for Mainframe Networks lets you manage both protocols from a single screen.

Check the health of your systems

Tivoli OMEGAMON XE for Mainframe Networks provides metrics that reveal a broad picture of your TCP/IP environment and its interaction with key business applications. The opportunity to view those metrics side by side with your IBM WebSphere, CICS, IBM IMS and IBM DB2 systems helps you manage the complexity of those interactions with greater ease.

Use detailed information about application connections, ports, packet size and volume to identify where network traffic, potential bottlenecks and other issues (such as FTP downloads) consume excessive resources and hamper TCP/IP performance.

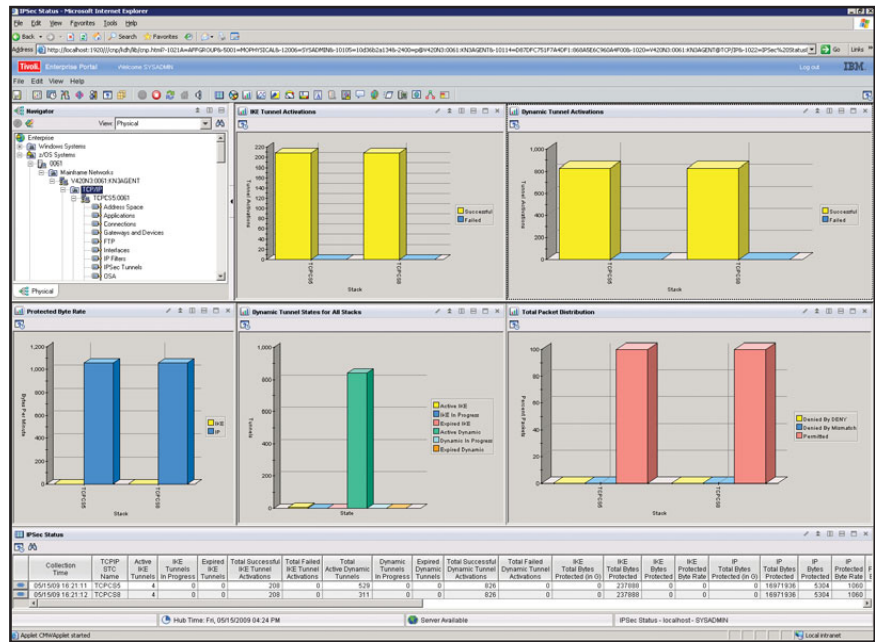
To help you optimize your connections, Tivoli OMEGAMON XE for Mainframe Networks shows you the end user's experience. Use the software to view:

- Round-trip transaction and variance times.
- IP in-and-out discards.
- Reassemblies.
- Fragmentation.
- Many other key TCP/IP metrics.

You can also tap the historical information collected to see performance trends over time, fine-tune performance and help predict future problems.

Diagnose and address problems within easily customized workspaces

Easily customized workspaces let your IT staff quickly pull together metrics, dynamic charts, tables and graphics to investigate specific performance issues from multiple vantage points. That can help you minimize the time it takes



Tivoli OMEGAMON XE for Mainframe Networks measures application throughput rates and alerts you when excessive throughput indicates a possible application or performance problem, or when retransmissions may signify a network problem.

to find and resolve performance problems while optimizing related staff productivity.

For example, when slow or unstable TCP/IP performance impacts customers and end users, your staff can quickly and intuitively drill down to see where TCP/IP connections slow related operations and view their effect on application performance. Use the information to tune performance, help meet business goals, reassure application stakeholders and remain highly productive.

Support for Group One languages (Chinese Simplified, Chinese Traditional, French, German, Italian, Japanese, Korean, Portuguese and Spanish) lets users view workspaces in numerous other languages. Team members from offices in North America, Europe and Asia can now all log in simultaneously to view the information in their native languages, which helps ease communications and speed problem determination.

Integrate with other Tivoli monitors to move beyond IT silos

Many organizations continue to address IT problems at the IT department or silo level. Unfortunately, because applications and related problems often span numerous systems and platforms, finding a problem's root cause requires an approach that reveals the depth and breadth of performance—and related problems—across your organization.

Tivoli OMEGAMON XE for Mainframe Networks provides a true end-to-end solution that enables you to correlate data from multiple systems. The product integrates with event correlation engines such as IBM Tivoli NetCool®/OMNIBus, and other performance monitors including IBM Tivoli Enterprise Portal, IBM Tivoli Composite Application Manager, IBM Tivoli Monitoring and other Tivoli OMEGAMON XE performance management tools.

Because Tivoli OMEGAMON XE monitors use Tivoli Monitoring 6.1 shared technologies, they also support efforts to centralize mainframe and distributed monitoring functions onto a single user interface: IBM Tivoli Enterprise Portal. The shared technologies include:

- *Support for IBM Tivoli Data Warehouse, which aggregates and prunes monitoring data from Tivoli OMEGAMON XE for Mainframe Networks and other monitoring tools to help improve historical reporting.*
- *Agent versioning support, which eases migration to new OMEGAMON XE releases as expanded capabilities become available.*
- *Dynamic Workspace Linking, described in the next section.*

Take advantage of Dynamic Workspace Linking for quick problem diagnosis

Because integration is key to leveraging the full power of your IBM monitoring portfolio, these products now include advanced Dynamic Workspace Linking. This function lets you easily navigate

between the workspaces provided by other IBM products that use Tivoli Enterprise Portal. Predefined cross-product links reveal information about systems, subsystems, resources and network components collected by other monitoring agents.

For example, if Tivoli OMEGAMON XE for Mainframe Networks detects an application slowdown, you could easily link to and view your IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS metrics to see potential resource contentions. Because the links remain in context, you see only the resources associated with those under investigation. This saves you the time of navigating manually between workspaces to find problems.

Tivoli OMEGAMON XE for Mainframe Networks can also be easily linked to IBM Tivoli NetView for z/OS to reduce the time to identify and repair network issues. For example, OMEGAMON XE

for Mainframe Networks can alert a user to a sudden increase in application traffic based on the number of DVIPA connections being exceeded. The system programmer can immediately drill into Tivoli NetView for z/OS from the alert to add a new server to the application.

Dynamic Workspace Linking also understands the intricate relationship between monitored data and subsystems such as IMS, DB2, storage and others—freeing the user from the need to comprehend those relationships.

Automate problem notification and automation

As with most Tivoli OMEGAMON XE products, Tivoli OMEGAMON XE for Mainframe Networks helps you easily define complex problem situations within your environment and receive alerts when performance degrades. With the product's included situations,

you can be alerted immediately when excessive retransmissions indicate a problem with an application or network segment, or when throughput levels signal other performance problems. Use the included situations to see when:

- *Users experience slow response times.*
- *User demand exceeds an application's capacity.*
- *System resource constraints affect application performance.*
- *Applications waste network resources.*
- *TN3270 sessions are nearing a configuration limit and thus may reject additional sessions.*
- *Network congestion slows performance.*

You can also set up your own intelligent alerts and thresholds using the situation editor's if/and/or logic to add precision and eliminate many false alerts.

Then take advantage of these features to work smarter:

- *Expert Advice — Mouse over an alert to receive a detailed problem explanation and potential fixes. Use the included knowledge out-of-the-box or edit the advice to preserve solutions specific to your environment.*
- *Take Action — Have the software remember your custom solutions, then resolve recurring problems by running built-in scripts or new scripts that you create with ease.*

For example, if a system programmer notices an application intermittently exceeds its connection limits due to fluctuations in business, they can leverage Take Action from OMEGAMON XE for Mainframe Networks to NetView for z/OS to automate the steps to add a new server to meet demand and to remove it when the spike in business activity subsides.

Help maximize the value of your IT investments with a single point of control

Because performance and availability problems aren't limited to a single platform, Tivoli OMEGAMON XE solutions identify and track problems across your enterprise. IBM Tivoli OMEGAMON DE on z/OS allows you to see information from multiple Tivoli OMEGAMON XE monitors—and third-party software—on a single monitor or console for efficient, proactive problem solving.

Tivoli OMEGAMON DE on z/OS provides data integration between Tivoli OMEGAMON XE monitors that lets you:

- *Correlate reports in customizable workspaces.*
- *Tailor business and technical views to users' job responsibilities.*
- *Allow policy-based, automated response to correlated data.*

Achieve end-to-end System z management

Tivoli OMEGAMON System z® infrastructure management solutions from IBM help customers achieve a true on demand computing environment. Composed of integrated, industry-leading monitors and consoles, Tivoli OMEGAMON solutions combine with Tivoli Monitoring for distributed systems and Tivoli composite Application

Manager products to provide an end-to-end view across an entire IT infrastructure. These advanced System z infrastructure management solutions help businesses meet the demands of increasing data center volume, complexity and volatility by helping IT quickly identify, isolate and fix problems before they impact customers. With Tivoli OMEGAMON software, businesses can continually adjust their end-to-end System z infrastructures to deliver high performance and ultimately help prevent threats to system performance before they impact service levels.

About Tivoli software from IBM

Tivoli software provides a comprehensive set of offerings and capabilities in support of IBM Service Management, a scalable, modular approach used to deliver more efficient and effective services to your business. Meeting the needs of any size business, Tivoli software enables you to deliver service excellence in support of your business objectives through integration and automation of processes, workflows and tasks. The security-rich, open standards-based Tivoli service

management platform is complemented by proactive operational management solutions that provide end-to-end visibility and control. It is also backed by world-class IBM Services, IBM Support and an active ecosystem of IBM Business Partners. Tivoli customers and partners can also leverage each other's best practices by participating in independently run IBM Tivoli User Groups around the world—visit www.tivoli-ug.org

For more information

To learn more about Tivoli enterprise performance and availability solutions, contact your IBM representative or IBM Business Partner, or visit ibm.com/tivoli/solutions/zseries

To keep in touch with the latest developments for System z environments, you can also subscribe to CCR2™—the monthly e-newsletter published exclusively for the IBM System z community—at ibm.com/tivoli/features/ccr2

Additionally, IBM Global Financing can tailor financing solutions to your specific IT needs. For more information on great rates, flexible payment plans and loans, and asset buyback and disposal, visit: ibm.com/financing



Tivoli OMEGAMON XE for Mainframe Networks at a glance

Software requirements:

- z/OS, Versions 1.4 and above

Tivoli OMEGAMON products for IBM System z include:

Operating systems:

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

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