

Improving Availability and Productivity with z/OS Monitoring

Providing collaboration across your Enterprise

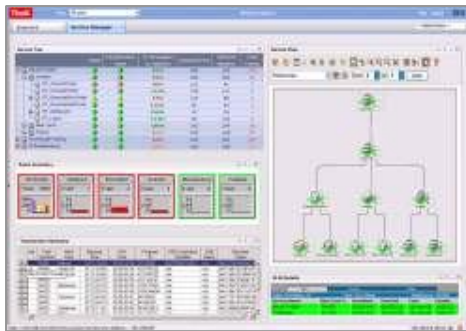
Kevin Hosozawa, OMEGAMON Product Manager



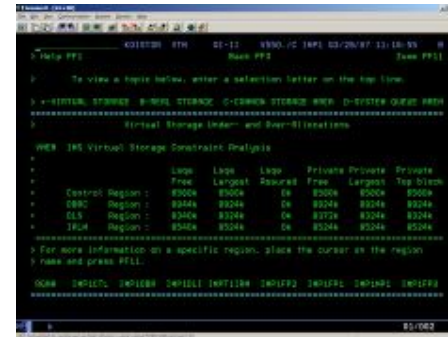
OMEGAMON Family provides integrated performance monitoring for improved productivity and availability

Business Challenge: Need to see across systems and be more proactive to avoid outages

OMEGAMON family integrated performance monitoring strategy supports this challenge with standardized user Interfaces



**GUI
(Operations - Monitoring)**

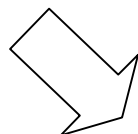


**System z Control Panel
(System Programmers –
Subject Matter Experts)**

Delivering Operations and Subject Matter Expert views for faster problem determination and resolution yielding higher system availability

OMEGAMON products collaborate via Dynamic Workspace Linking to quickly track down problems

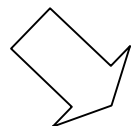
Problem Sensed



Launch OMEGAMON on z/OS



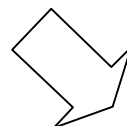
Dynamic Workspace Linking shares information across OMEGAMON products



Launch OMEGAMON for Storage



Problem Isolated



Launch OMEGAMON for Mainframe Networks



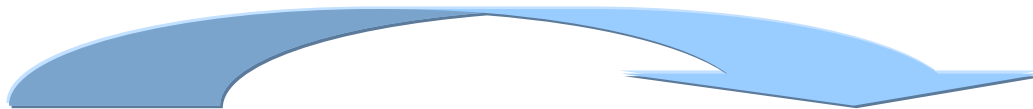
Problem Diagnosed

Organizations which applied an integrated approach show superior results compared to organizations which did not

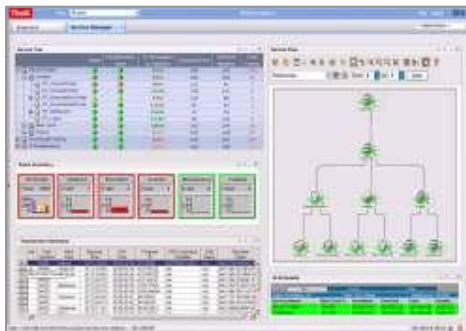
OMEGAMON Launch in Context capability improves collaboration between different types of users

OMEGAMON provides easy to use navigation between users and views

Problem Diagnosed

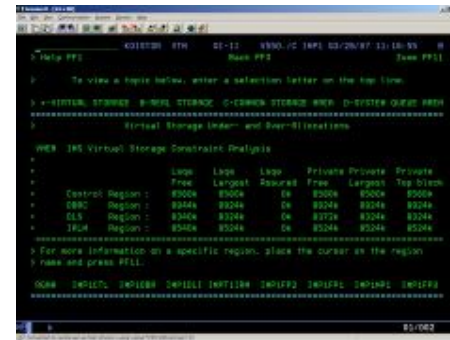


Problem Repaired



GUI

Integrate broad range of IT information increasing staff visibility and awareness



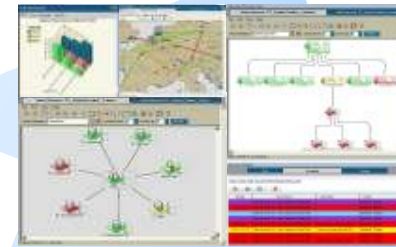
System z Control Panel

“Launch in Context” provides fast path to SME for quicker problem resolution

Tivoli integrated performance monitoring creates hierarchical collaboration approach

Tivoli Business Services Manager (TBSMz)

Combine information across multiple Tivoli monitors for end-to-end business impact view



OMEGAMON DE

Combine information across multiple OMEGAMONs for IT Management



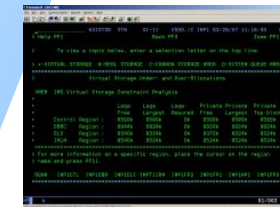
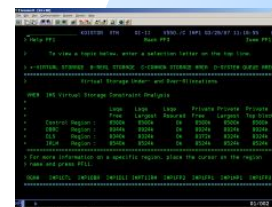
OMEGAMON XE Family

Tivoli Enterprise Portal GUI
Consolidating information

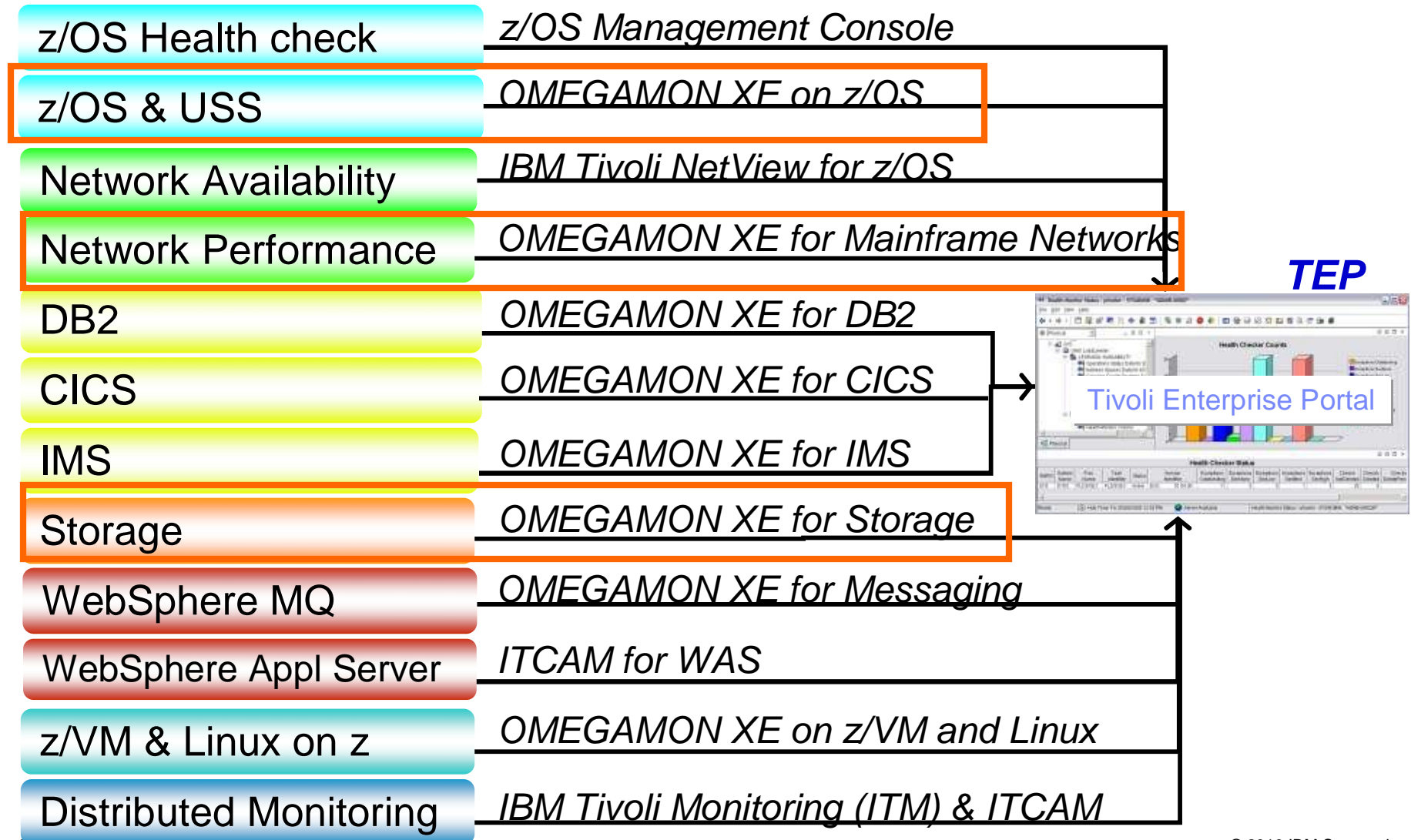


OMEGAMON XE Family

System z Control Panel
Critical focus required by SMEs



Tivoli Enterprise Portal (TEP) allows collaboration across z/OS, Storage and Mainframe Networks



New!

Optimize performance and availability of z/OS platform with OMEGAMON for z/OS Management Suite

- Supplying visibility to cloud and mobile environments
- Bringing forward an integrated System z view for virtualized, network infrastructure
 - Managed based on key performance indicators (KPIs)
- Increasing Operations staff control of total System z environment with single view of:
 - Network, both SNA and IP
 - System z Storage
 - Operating System



OMEGAMON for z/OS Management Suite improves ability to manage performance and availability

- Simplifies Problem Source Identification across system
 - Helps navigate from alerts to metrics
- Offers built in historical and trending data and reporting
- Eliminates false alerts
- Matches expert decision making combining thresholds from multiple metrics
- Evaluates combined cross system or subsystem events
- Assists less experienced system administrators by providing guidance and recommendations
- Provides alerting with flexible, optional threshold overrides



Management Suite provides more complete view of Mainframe environment



- Reduces data collection overhead by leveraging metrics already collected by RMF
- Provides Bottleneck Analysis that pinpoints address spaces competing for resources allowing realignment of priorities
- Identifies looping tasks by calculating a loop index using multiple attributes (e.g. CPU, I/O)
- Provides real-time information on Processor spin-loops
- TSO response time reported at the user id and Service Class level providing monitoring capabilities at a workload and business execution level
- Provides support for IPSec (IKE tunnels, IP filters, Security Associations)



Mainframe network capability provides valuable network performance information

- **Visibility: View Network Connections and Performance on z/OS**

- Extensive data and graphical displays of network performance
- Covers both software and hardware aspects of z/OS data networks (e.g. OSA adapters, TCPIP stack)

Easily identify and follow problems through the z/OS network and beyond

- **Control: Enhance Automation through defined situations**

- Deploy product-provided situations that can generate alerts for many network problems as they occur

OMEGAMON situations provide shortcuts to problem determination by linking directly to problem areas

- **Automation: Provide Instant responses to network problems**

- Enable easy integration between OMforMfN and NetView automation, or take actions directly to address problem management situations

Fix network problems as they occur without manual intervention

Using Management Suite improves overall storage management across z/OS

- Maps impact of storage issues to applications by showing application view of storage utilization, performance, and availability both locally and across systems in a shared DASD environment
- Shows effect of problems with physical disks on applications by identifying logical volumes residing on physical disks which can then be mapped to physical I/O
- Provides ability to self discover resources allocated to critical servers so new DASD will be monitored as soon as it is brought online.
- Provide dataset level access statistics by in real-time providing the ability to closely monitor mission critical datasets
- Identifies cross system workload impacts by calculating true device busy and contention indices to provide comprehensive view in a shared DASD environment



OMEGAMON for z/OS Management Suite provides Visibility across entire z/OS Mainframe environment

- Delivers a fully integrated real-time monitoring solution
 - Incorporates alerts and metrics in single user interface
 - Reducing cost of monitoring enterprise
 - Reduced learning curve and intelligent alerting
- Supplies User interfaces for both Operations and SMEs
 - Facilitating communication and reduces time to problem resolution
- Provides basis for powerful Integrated Service Management capabilities
 - Integrating with other service management domains
 - System automation, business service dashboards, service request management, and configuration management
- Most flexible system on the market with displays which can be customized to match the business needs



OMEGAMON for z/OS Management Suite provides real business value across z/OS mainframe

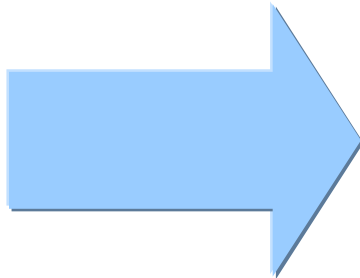

Capabilities	Business Value
<ul style="list-style-type: none"> • Fully integrated with correlation • Reduced Problem Source Identification • Automation capabilities without extra components 	<p>Reduces cost of enterprise wide monitoring and management with a flexible, intuitive, customizable user interface that is useful for SMEs and Operations</p>
<ul style="list-style-type: none"> • Bottleneck analysis shows what is causing response time issues • Impact analysis within same product • Looping task identification using more metrics 	<p>Fast Problem Source Identification (PSI) reducing time to find and repair issues proactively before they become outages</p>
<ul style="list-style-type: none"> • Provides IPSEC support • Tightly integrated with NetView • Single solution for TCP/IP and SNA 	<p>Integration between network monitoring and management allows immediate action to be taken from single user interface</p>
<ul style="list-style-type: none"> • Provides cross-system utilization and contention statistics for true busy • Provides dataset level Access statistics by application 	<p>Show true utilization across system z and monitor critical datasets in real time providing information at the business application level.</p>

New!

OMEGAMON XE for z/OS Management Suite supports enhanced collaboration across System z

Collaboration across z/OS, Storage and Networks

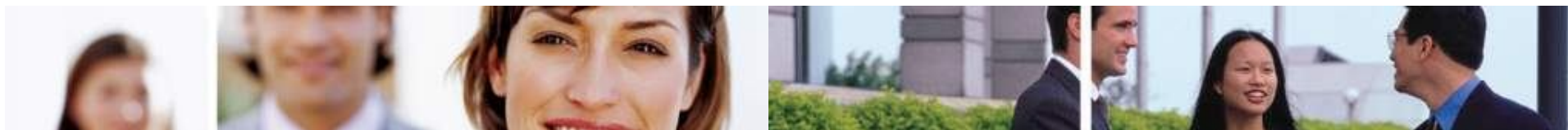
Integrating Performance KPIs



- Speed time to problem resolution
- Improved Performance
- Increase System Availability
- Enhance Operational Productivity
- Improve Return on Investment

Find out more about OMEGAMON for z/OS Management Suite value and visibility capability

- *Gain improved visibility across z/OS system, network and storage*
 - [OMEGAMON for z/OS Management Suite](#)
- *Learn more about OMEGAMON at Pulse*
 - [Pulse 2012 Conference](#)
- *Leverage Integrated Service Management information:*
 - [Integrated Service Management for System z](#)
- *Take advantage our of FREE self-assessment tool:*
 - [Integrated Service Management Self-Assessment](#)



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