



# New mainframe monitoring capability: OMEGAMON V5.1 family

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## IBM System z Service Management development continues enhancing OMEGAMON portfolio



- OMEGAMON XE V5 portfolio continues delivering significant new business value and support
  - OMEGAMON XE for z/OS V5.1.1
  - OMEGAMON XE for Mainframe Networks V5.1.1
  - OMEGAMON XE for Storage V5.2
  - OMEGAMON XE for z/VM and Linux V4.3
- IBM enhanced OMEGAMON portfolio focused on hardware and Mobile, Big Data and Cloud support
- OMEGAMON Cross-Product integration simplify operations ability to achieve optimal availability





## Increased Business Agility with improved IT visibility now available with redesigned OMEGAMON family

Modernize and strengthen OMEGAMON product line with reduced resource usage and increased information available for higher quality service management

- Enhanced 3270 User Interface for SMEs
- Built-in Problem Solving Scenarios
- Faster Configuration/Maintenance
- Usage of zIIP specialty servers
- zEnterprise monitoring across zEC12/BC12 and zBX





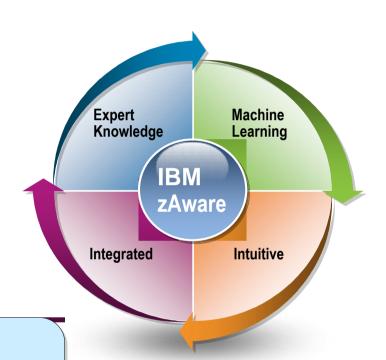




### Increased analytics and mobile visibility and productivity

### IBM OMEGAMON XE for z/OS V5.1.1

- Enhanced zEnterprise analytics visibility Support zAware for monitoring and management
- Increased Productivity Enhanced OMEGAMON family Install/Config PARMGEN capability.



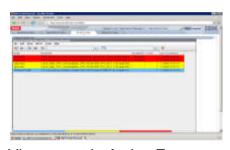
### Benefits:

- ■Save up to 75% of time needed to find problems
- ■Up to 73% of CICS SLA processing off-loaded
- ■Reduce fix times from 90 minutes to 2 minutes



## IBM zAware, Event Management and Traditional Performance Monitoring





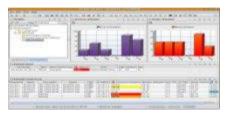
View event in Active Event List Generate trouble ticket



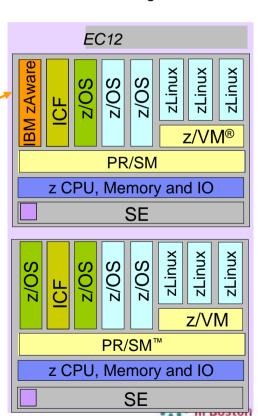




- Query IBM zAware (10 minute interval)
- •If anomaly detected
  - Trigger situation to Generate Event when anomaly is surfaced
  - Include IBM zAware insights in performance monitoring views



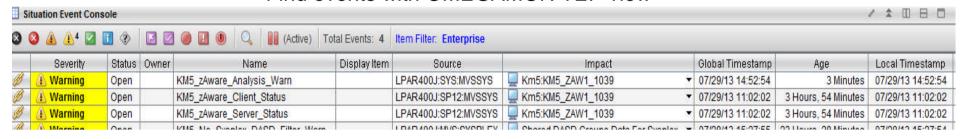
Perform PD for anomaly using association with traditional monitoring KPIs



## Use OMEGAMON to monitor zAware and find events before they become outages



#### Find events with OMEGAMON TEP view

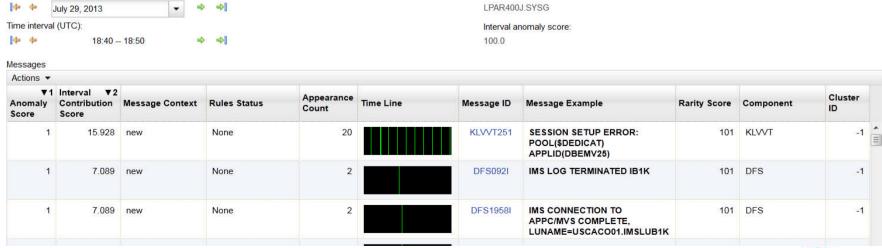


#### Interval View for System SYSG

### zAware details on what triggered event

The Messages table provides detailed analysis information for each message that occurred during the indicated time interval. To view message details for other intervals use the date and time interval selectors. Click the **Return to Analysis** to the Analysis view.

Analysis Source:



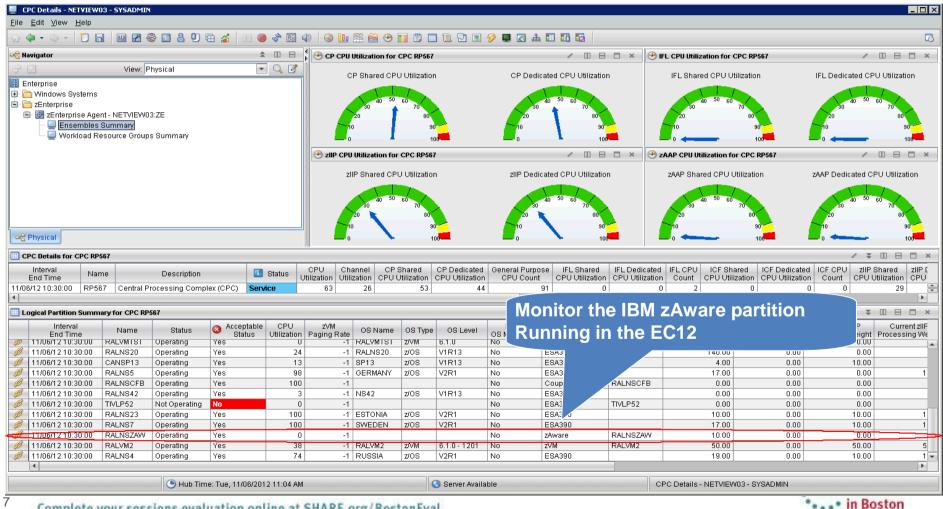


Date:

### Monitoring zAware Server with OMEGAMON



 The Tivoli zEnterprise Monitoring Agent already monitors logical partitions in CEC as shown in 'Logical Partitions Summary' table in zEnterprise Ensemble Summary workspace.





## Continuing to enhance PARMGEN to make installation and configuration easier

### **New Capability**

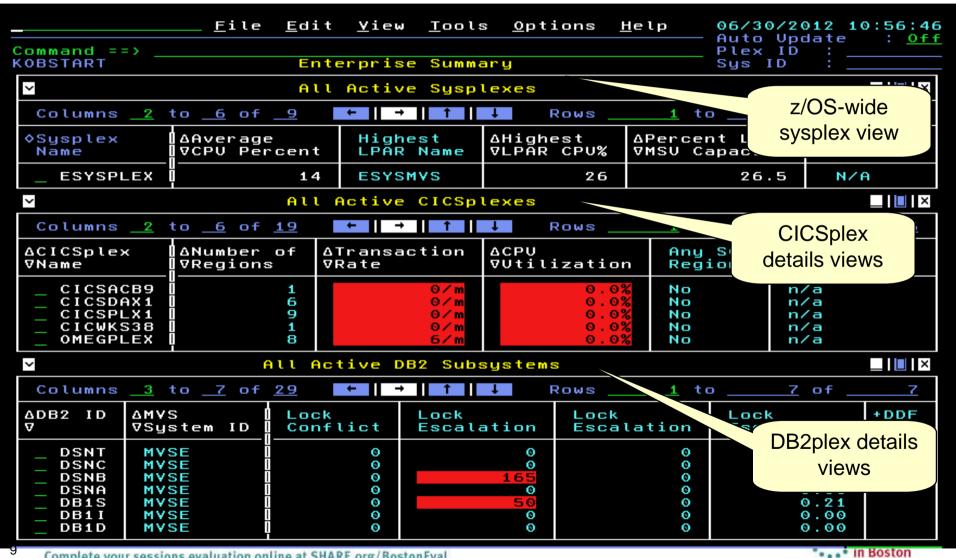
### **Customer Value**

Added two global parameters for quicker out-of-the box configuration.	First-time installers now have 490 fewer parameters to customize to get to proof-of-concept.
Automatically refresh PARMGEN profiles whenever configuration changes are made after initial RTE deploy.	75% reduction in steps for this refresh activity.
Automatically incorporate local variables (if defined) into the PARSE job.	50% reduction in the number of jobs needed to incorporate local overrides to system variables.
Provide a job to compare test and production libraries.	Enables quick visualize differences before moving test into production.
Enhance the System Variable report job to include user-defined variables and their current values.	Full range of variables PARMGEN supports and their current values (for debugging purposes).





### Enterprise View - Sysplex, CICSplex and DB2plex







### Increased analytics and mobile visibility and productivity

#### IBM OMEGAMON XE for Mainframe Networks V5.1.1

- Increase Mobile Network availability Improved visibility into networks and enhanced problem determination and resolution
  - FTP and Hybrid Networks
- Enterprise Wide Views and Find dialogs Extended TEP capabilities to enable SMEs to improve MTTR (Mean Time To Repair) for network related problems



Continued Enhancement of OMEGAMON family to support Mobile, Cloud and Analytics





## OMEGAMON XE for Mainframe Networks Key Indicators to monitor and manage

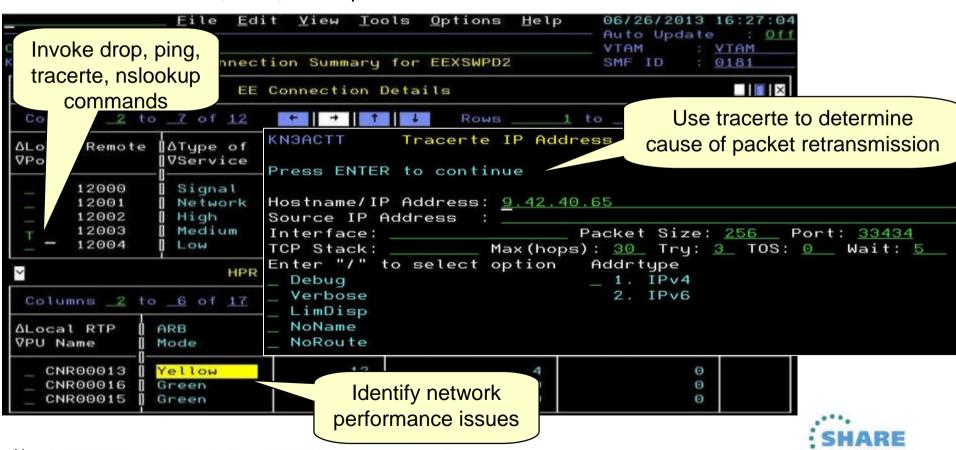
**Applications and Connections** 

FTP sessions and transfers

Network interfaces, OSA, and HiperSockets

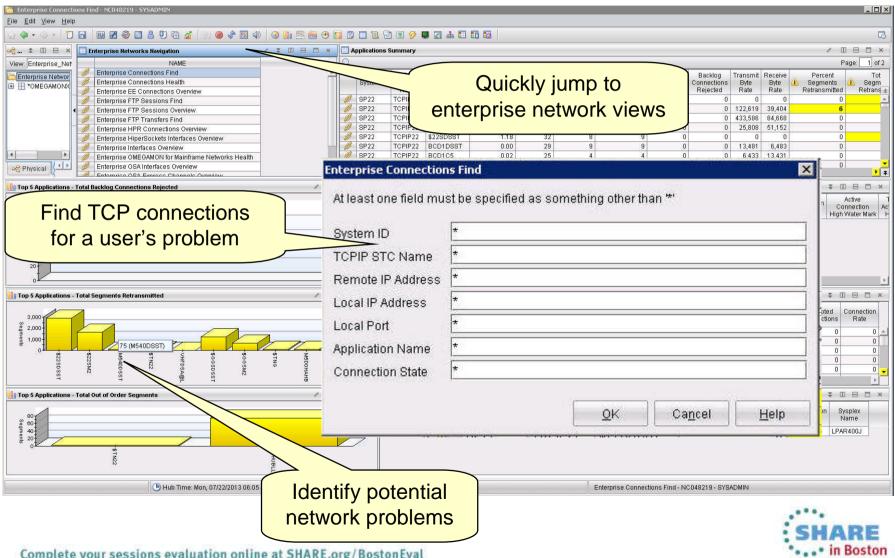
### **Business partner links**

TCP/IP stack performance and memory TN3270 sessions



## OMEGAMON XE for Mainframe Networks provides visibility to resources across an Enterprise









## Enhanced System z Storage Management supporting quickly growing Big Data management requirements



#### IBM Tivoli:

- •OMEGAMON XE for Storage on z/OS v5.2.0
- •Adv Storage Management Suite for z/OS v1.2
- Advanced Allocation Management for z/OS v3.3
- Advanced Catalog Management for z/OS v2.5
- Advanced Audit for DFSMShsm v2.5
- Output Manager for z/OS V3.1

- Reduced resource usage
- New storage hardware support
- Easier Installation and Configuration
- Enhanced support for catalog attributes
- improved recovery processing and reduced recovery time
- Predictive search improves responsiveness and accuracy

IBM Tivoli Storage management portfolio works together to provide simplified management







OMEGAMON for z/VM and Linux V4.3 and SmartCloud Monitoring Single Source of all z/VM Performance Metrics

### **Mobile & Cloud Monitoring**



### **Increased Performance & Availability**

- zVM Live Guest Relocation & Single System Image
  - Monitors all hypervisor guest relocations both in realtime, and using historical data

### **Cloud Health Visibility and Optimization**

- Performance and Availability metrics/analytics
  - z/VM Monitor Service and Linux Application Monitor
  - Integrated, consistent metric reporting across all z/VM

### **Optimize Cloud workload resources**

- Business Expansion based on capacity planning
  - Grow without adding hardware



## Enhanced Configuration and Maintenance capability with Self-Describing Agents



Faster, easier, less error-prone for improved reliability and productivity

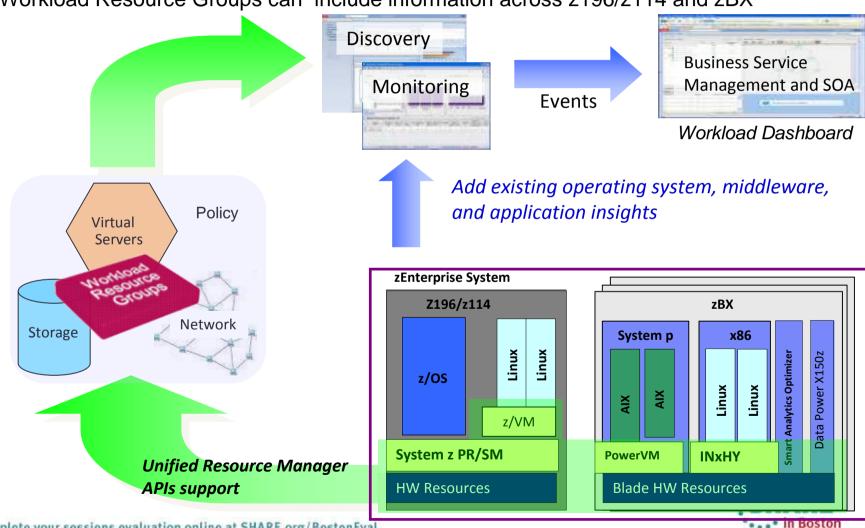
- Eliminate monitoring outages caused by ITM Server recycles
  - Product upgrades/maintenance requires agent or RTEMS recycles only
- Eliminate maintenance upgrade errors:
  - Applies to new installs, staged upgrades, and maintenance
  - Crosschecks and validates version with installed data and framework
  - Avoids inconsistent application data in ITM framework layers
- Self-describing framework extensible to new capabilities
- Eliminates application data DVDs and CDs:
  - No extra distributed installs or upgrades for mainframe-centric customers
    - Moving from 40 hours a week to 4 hours a week maintenance
    - 80% improvement in time for installation and maintenance
    - 30% improvement in time to configure post installation





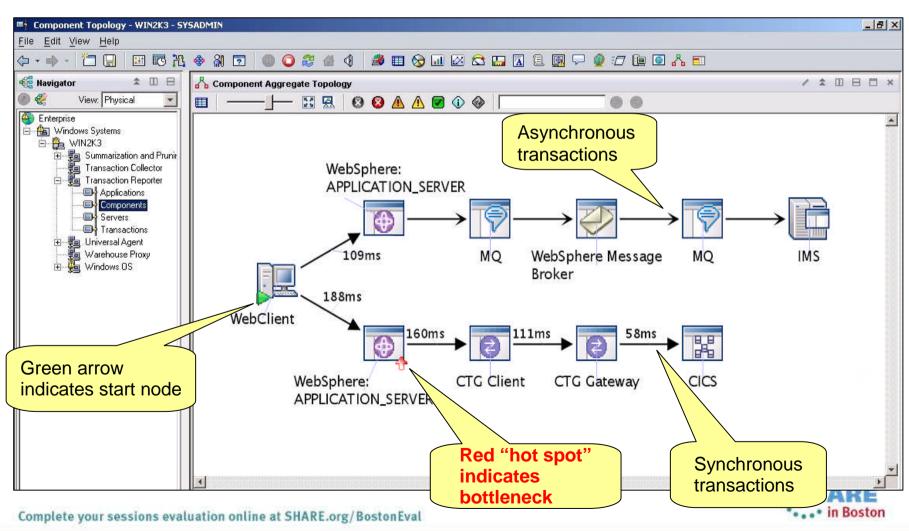
## zEnterprise visibility support to allow for discovery and monitoring across all components

Workload Resource Groups can include information across z196/z114 and zBX



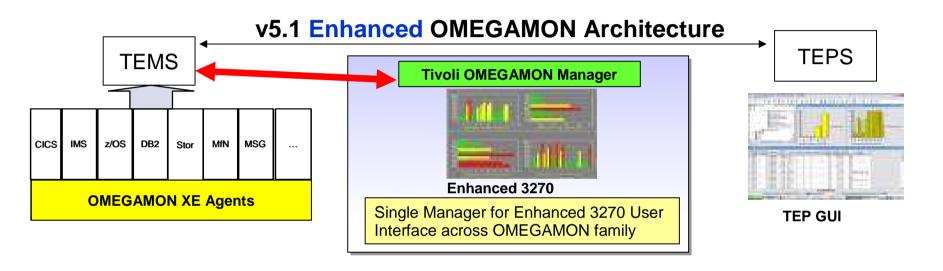


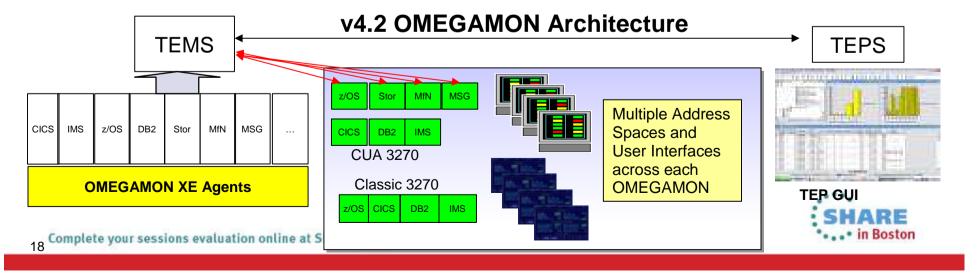
## Transaction Tracking designed to increase operations productivity and improve application availability





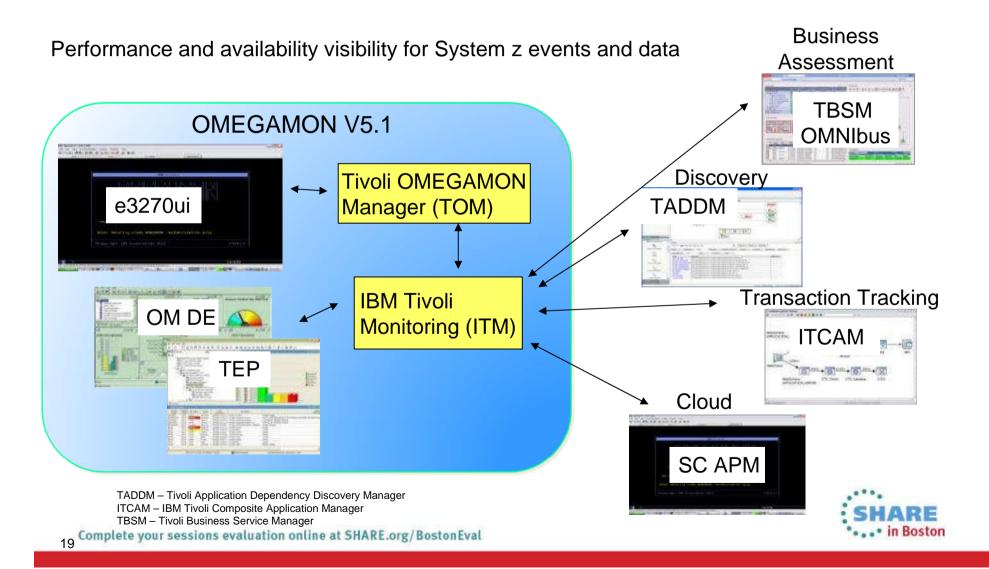
## Moving to <u>simplified architecture</u> driving decreased resource utilization with increased capability





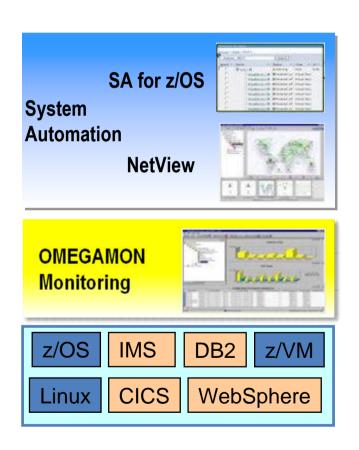


## OMEGAMON integrates within total Enterprise-wide Application Performance Management capability





## OMEGAMON and System Automation work together to improve availablity and simplify operations



- Active or passive performance monitoring
  - Managed by automation
  - Integrated with monitor products
- Determine health state or exceeded tresholds
- Send a notification to event receiver or owner
- Start/stop/move resources (work around)
- Expert level: Cure performance problem
  - Using performance monitor, system or affected subsystem





Learn more and join conversation on monitoring requirements going forward

Find documentation and latest advise on OMEGAMON V5.1 **Google:** OMEGAMON Common Information

#### Join the Conversation:

System z Service Management

Google: Developerworks System z Management

#### Includes:

- •e3270ui workspace navigation (cheat sheets)
- Parmgen upgrade guidance reference material







## IBM continues to enhance Mainframe monitoring to address new technology, like Mobile, Big Data and Cloud



- OMEGAMON XE V5 delivers significant new customer value based on high priority customer requirements
- Extended performance tuning methodology to end-to-end
  Application Performance Management
- Enhanced Cross-Product capabilities to simplify operations ability to achieve optimal services





## Learn more about the IBM's Mainframe support for Visibility, Control and Automation

Mainframe Service Management	http://www-01.ibm.com/software/os/systemz/itsm/
Workload and System Automation	http://www-01.ibm.com/software/tivoli/solutions/system-workload- automation/
Tivoli Workload Scheduler	http://www-01.ibm.com/software/tivoli/products/scheduler/
IBM Tivoli Monitoring	http://www-01.ibm.com/software/tivoli/products/monitor/
OMEGAMON XE Family	http://www-01.ibm.com/software/tivoli/products/omegamonxeproductline/
Tivoli System Automation for z/OS	http://www-01.ibm.com/software/tivoli/products/system-automation-zos/
IBM Tivoli NetView for z/OS	http://www-01.ibm.com/software/tivoli/products/netview-zos/
IBM Geographically Dispersed Parallel Sysplex	http://www-03.ibm.com/systems/z/advantages/gdps/index.html







