



OMEGAMON V5 improves problem management for increased system availability

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Monday, February 4th, 2013 Session 13155

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IBM System z Service Management continues providing customers improved business flexibility Key Takeaways

- IBM recognized leader in Application Performance
 Management for monitoring, managing and optimizing IT
- IBM provides enhanced Cross-Product capability to simplify operations ability to achieve System z SLAs
- Redesigned OMEGAMON XE V5.1 provides significant new customer value based on high priority customer requirements





Costs of poor performing applications sky-rocketing based on increased application complexity

Computer glitch dumps kids from state health insurance

Computer Glitch Delays IRS Rebate Checks

By DEBORAH CIRCELLI Staff writer

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DAYTONA BEACH -- Computer errors in a state health insurance program has officials contacting families of thousands of children who may have been improperly dropped over the last five months to try to get them enrolled again.

Child advocates and officials with Florida Healthy Kids Corp. said a change in the state's computer system for KidCare caused glitches in which notices were sent out late, or not at all, to families that premiums were due or that their insurance was up for renewal. In other cases, letters were not properly sent out informing parents that more documents were needed to continue their coverage.

"Nearly 60% of survey respondents reported the inability to identify issues before end users are impacted..." "Poor application performance translates to lost revenue, research shows", Network World "Organizations spend 54% of each outage detecting and identifying." – EMA Decreasing IT Operational Costs by Accelerating Problem Resolution

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System glitch hits HSBC customers

HSBC customers faced chaos in the UK on the New Year public holiday as the bank suffered a major breakdown in services.

A computer glitch meant customers were unable to get money from cash machines or use credit cards and Switch cards.



Bargain hunters may have been hit by HSBC's problems

People were also unable to access their personal accounts of the bank's internet service.

A spokeswoman for HSBC said the glitch was the most seriou the bank had experienced in its history, but most problems had now been resolved.





Customers continue to exploit System z as platform for business critical applications

- 90% of Fortune 500 companies rely on mainframes
- 70% of Enterprise Customers indicate z will play part in cloud initiatives
- 90% of top insurance companies use z to process high volume transactions

Why are customers continuing to use System z?

- Up to 50% savings on applicable IT costs
- Up to 99.999% availability and uptime
- Top-rated EAL5 security classification
- Proven mixed-workload management
- Industry leading virtualization and up to 100% utilization

Achieving high availability requires visibility, control and automation with Application Performance Management

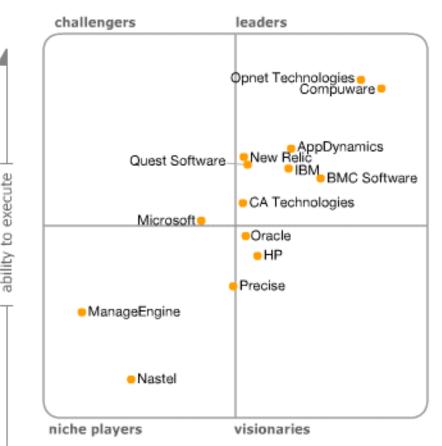




Gartner identifies IBM as a Leader in the 2012 Magic Quadrant for Application Performance Monitoring (APM)

Magic Quadrant for Application Performance Monitoring Will Cappelli, Jonah Kowall

August 16, 2012

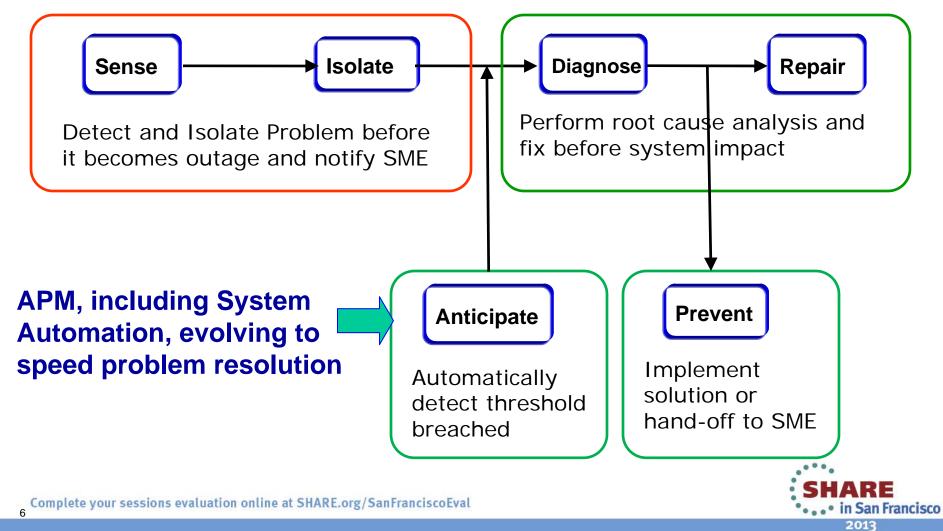


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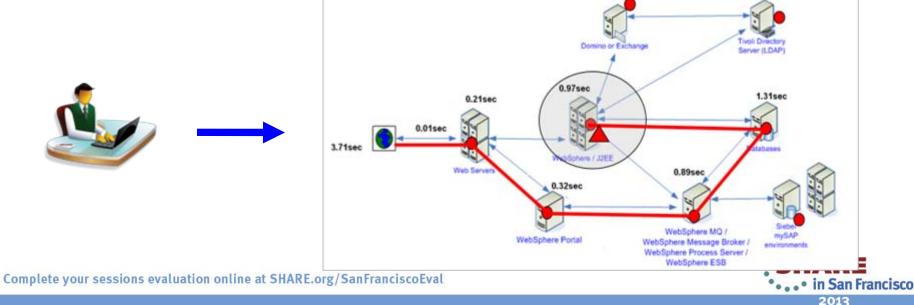
IBM Application Performance Management (APM) processes becoming more pro-active across workloads





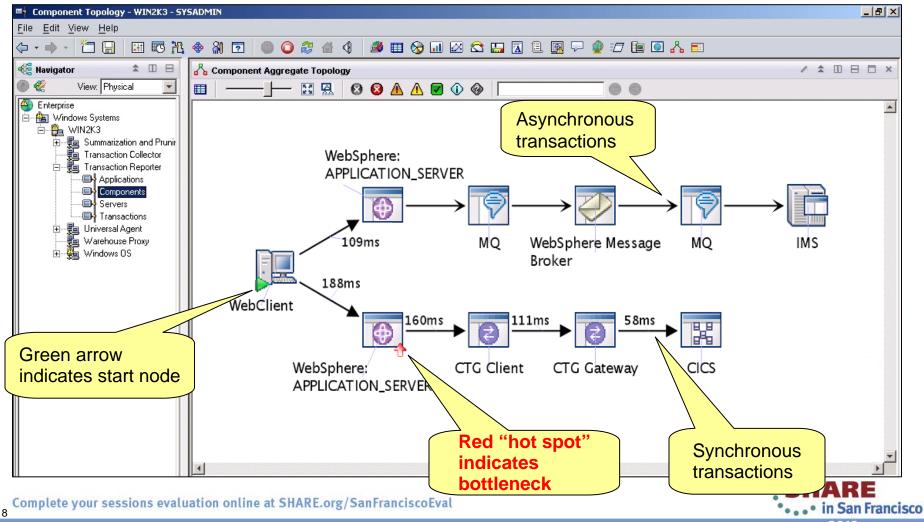
IBM APM includes Transaction Tracking to quickly find problems across complex business solutions

- Follow path of business transaction across entire infrastructure: mainframe, network and distributed components
 - Agentless: Track flows through network traffic
 - Agent Based: Detailed, Instance-level Transaction Tracking
- Provides visibility and control into entire business critical application flow
- End-to-End view of response times across multiple domains
 - Quickly isolate problems and automatically resolve or hand problem off to SME





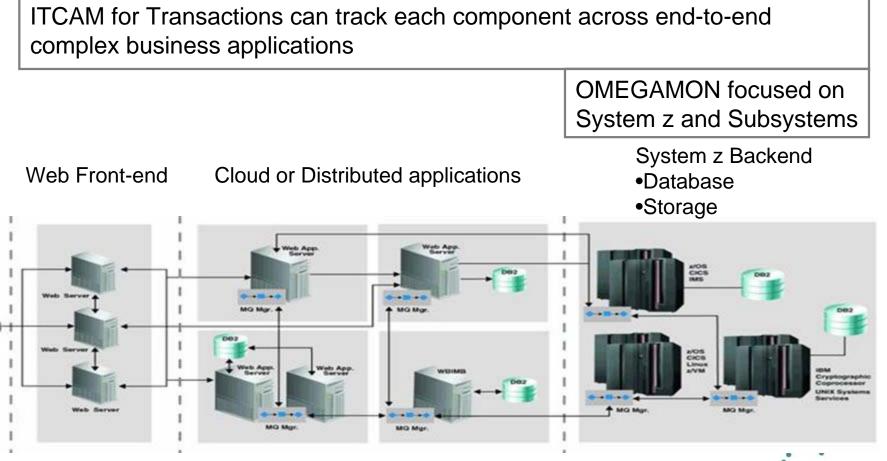
Transaction Tracking designed to increase operations



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ITCAM for Transactions and OMEGAMON work together across entire enterprise for transaction tracking



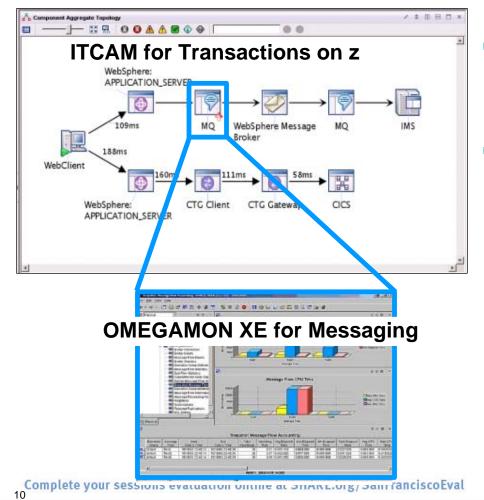
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Seamless integration between ITCAM for Transactions and OMEGAMON for faster application problem resolution

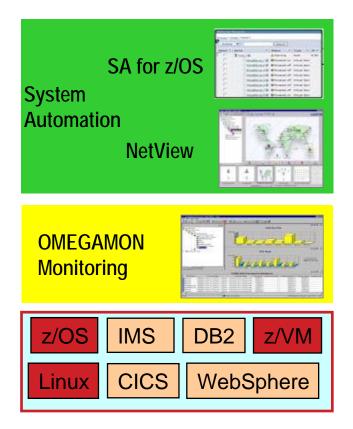


- Dynamic Workspace Links launch-in-context to appropriate OMEGAMON
- Launch destinations depend on type on data source
 - MQ -> OMEGAMON XE for MSG
 - WAS -> ITCAM for WAS
 - CICS /CTG -> OMEGAMON for CICS
 - IMS -> OMEGAMON for IMS





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





Case Study: OMEGAMON and System Automation track IMS subsystem response time to meet SLAs

IT Commitment

Ensuring IMS meets committed response time target

Technical solution:

OMEGAMON XE for IMS

 IMS transaction queuing causing a response time problem detected and information sent to System Automation for z/OS.

System Automation for z/OS

- Starts another IMS Message Processing Region, which reducing queuing and therefore response time.
- Informs operations via Tivoli Enterprise Portal and TBSM
- If problem persists, alert IMS transaction owner and stakeholders







OMEGAMON V5.1 product family provides improved visibility and simplified problem management

Reduced resource usage and improved user interface

Increased System Availability with faster problem resolution

- Enhanced 3270 user interface for SMEs
- Built-in Problem Solving Scenarios

Improved Productivity with simplified information

- Faster Install/Configuration/Maintenance
- zEnterprise monitoring across z196/114 and zBX

Reduced Costs with decreased resource usage

- Usage of zIIP specialty servers
- Simplified OMEGAMON architecture







OMEGAMON V5.1 customer directed design focused on helping decrease costs and improve usage

Redesigned OMEGAMON Enhanced 3270 User Interface addresses customer requirement to make problem analysis more efficient and effective

System Programmer Driven Focus Areas for Improvement

- Simplify
 Eliminate complexity and frustration
 - Standardize Align with existing IBM 3270 Applications
- Integrate Move from silo monitoring towards composite views
 - Reduce footprint, install, configuration, and CPU
- Modernize Make the 3270 Interface 'Best of breed" SME focused Problem Solving

Scenarios

Customize

Minimize

Personalize User Interface

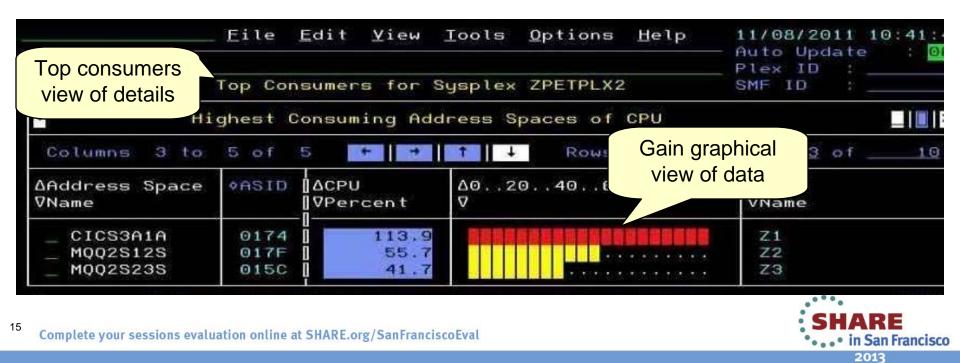




Customer prioritized <u>Problem Solving scenarios</u> built into enhanced 3270 user interface (e3270UI)

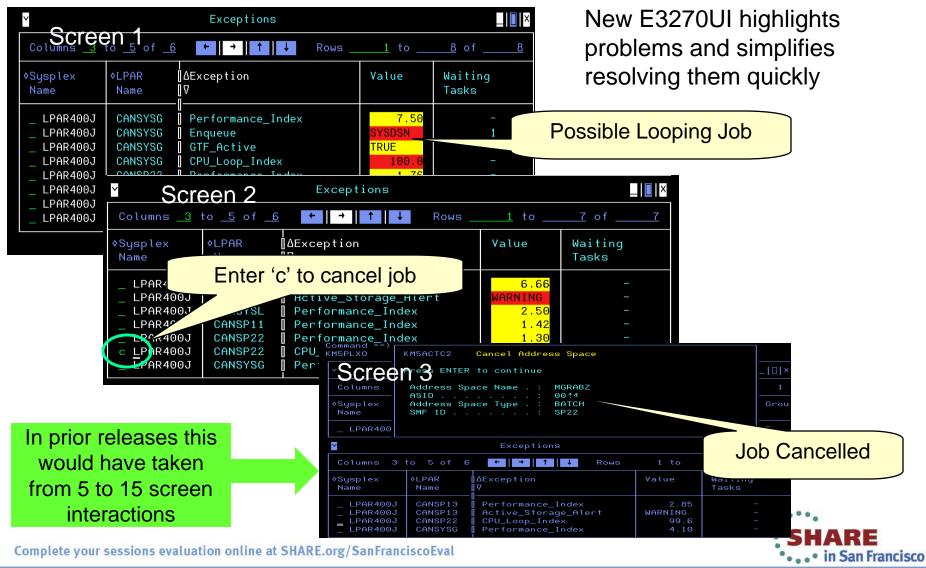
Easy to see and find critical system and sub-system information for improved performance and availability across System z

- Customized screens focused on customer defined problems
- Screen content based on high priority problems
- Includes Healthcheck and Bottleneck analysis





Example of quickly finding and fixing z/OS Problem

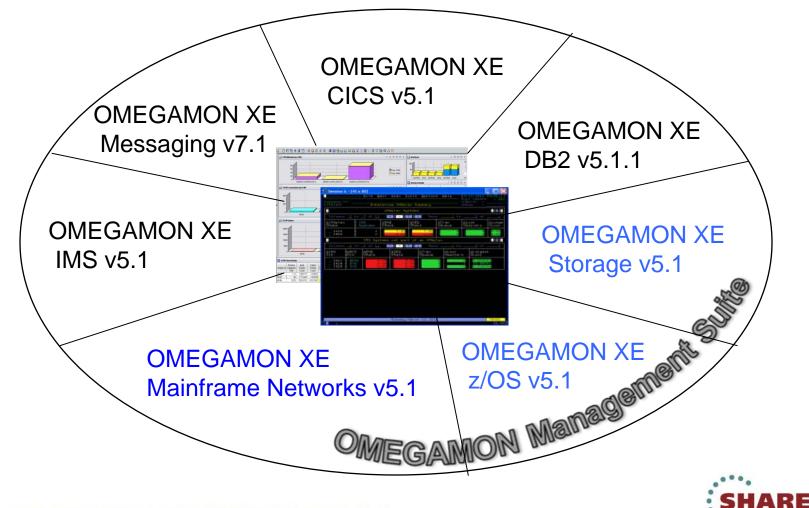




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OMEGAMON V5.1 Family provides single screen visibility across entire System z and subsystems



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Each OMEGAMON V5.1 product provides additional capabilities to decrease costs and reduce risks

- OMEGAMON XE for z/OS V5.1
 - View summary of multiple sysplexes and subsystems
 - Save 50 to 75% of time needed to find problems

OMEGAMON XE for CICS V5.1

- New 'Find' command to locate hung users over entire cicsplex
 - Reduce fix times from 90 minutes to 2 minutes

• OMEGAMON XE for DB2 V5.1.1

- Visibility into IBM DB2 Analytics Accelerator (IDAA)
 - Maximize your organization's ROI from appliances
- OMEGAMON XE for IMS V5.1
 - MIPS reduction with Application Trace Facility
 - V5.1 uses 24% less CPU than 4.2 running ATF







OMEGAMON V5.1 family provides visibility across entire System z and subsystems for enterprise view

OMEGAMON XE for Storage V5.1

- Increased automation and reduce cost with Toolkit Take-Action
- Greater hardware support with expanded physical hardware monitoring (HDS and STK, IBM and EMC already available)

• OMEGAMON XE for Messaging V7.1

- New views of health of Queues, Queue Managers and Channel Managers.
- Find command to easily locate Websphere MQ resources
- OMEGAMON XE for Mainframe Networks V5.1
 - Improved Diagnostics with decreased CPU utilization
 - OSA data collection and display to improve diagnostics, visualization, and CPU usage



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Enhanced Configuration and Maintenance capability with <u>Self-Describing Agents</u> and <u>Parmgen</u>

ITM 6.2.3 autonomic Self-Describing Agent

- 80% improvement in FTE requirements
- 60% improvement in time for installation and maintenance
- 30% improvement in time to configure post installation

Eliminates manual updates of application data DVDs and CDs:



 Image: Strategic move from ICAT to Parmgen for Installation and Configuration

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 Image: Strategic move from ICAT product-centric jobs to configure 38 components

 Image: Strategic move for Parmgen function-centric jobs to configure components

 Image: Strategic move for upgrade guidance

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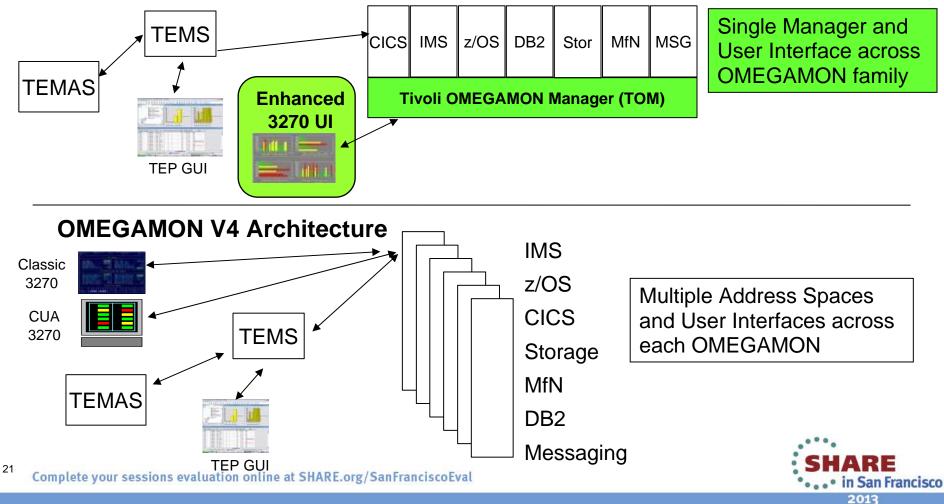
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Moving to <u>simplified architecture</u> driving decreased resource utilization with increased capability

OMEGAMON V5.1 Enhanced Architecture





OMEGAMON V5.1 family proven to provide significant cost savings over other vendors monitoring products

Decreasing overall costs customers could see a 48% reduction in CPU usage*, when comparing just the cost of running OMII (CUA) and OMEGAVIEW vs. the cost of running the e3270ui.

• OMEGAMON has been exploiting zIIP offload for years.

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- OMEGAMON offloads routines for OMEGAMON z/OS, DB2, and CICS as well as use of RMF as a data collector further reducing usage
- With version 5.1, OMEGAMON improved performance and reduced CPU usage in each monitor with improvement from 20%-50%* from version 4.2 releases.

Based on internal testing and running similar scenarios on v 4.2 versus v 5.1 . *Results at your own shops will vary dependent on OM II (CUA) and OMEGAVIEW deployment Complete your sessions evaluation online at SHARE.org/SanFranciscoEval

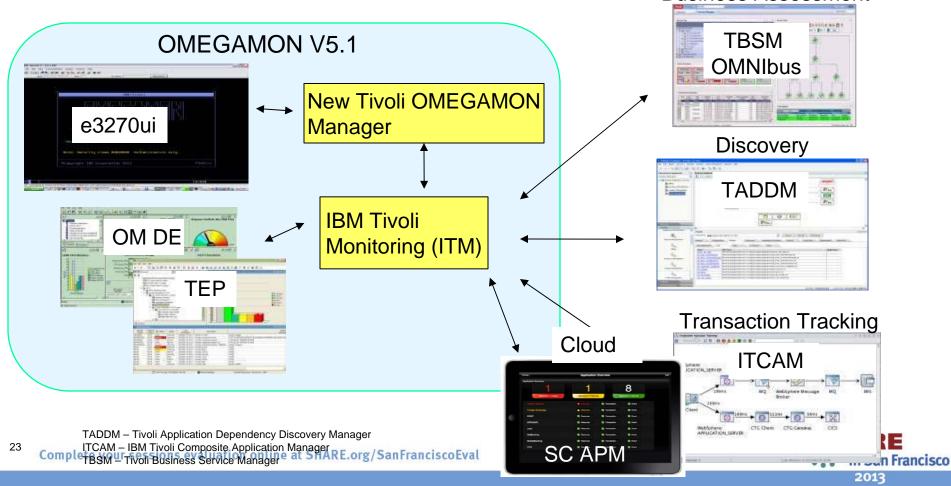






OMEGAMON integrates within total Enterprise-wide Application Performance Management capability

OMEGAMON Portfolio provides performance and availability visibility for System z events and data consumed by a set of Tivoli BSM products Business Assessment





Analysts agree that OMEGAMON V5 provides customer value with new Enhanced 3270 User Interface

Ptak / Noel

On OMEGAMON moving to simplified architecture and a common view across multiple domains, Rich Ptak of PNA commented, "*This is an important and much needed enhancement. We've heard consistently – there is a need for this kind of integration. Consistent interface – a couple of years ago, some people liked to be in a silo and just toss things over to someone else. But, they can't live that way anymore.*" PNA also gave IBM high marks for doing so without losing functionality.

http://ptaknoel.com/ibm-omegamon-v5-1-good-reasons-for-customer-interest-and-excitement/

Clabby Analytics

On OMEGAMON Enhanced 3270 User Interface, Joe Clabby with Clabby Analytics commented: *What you've done to your 3270 interface is kind of a "wow"! I'm not a 3270 fan and I love what you've done with it"*

ftp://public.dhe.ibm.com/software/data/ECM/industry/TWDIBMTivoli_OMEGAMON.pdf

Learn more: ibm.com/omegamon



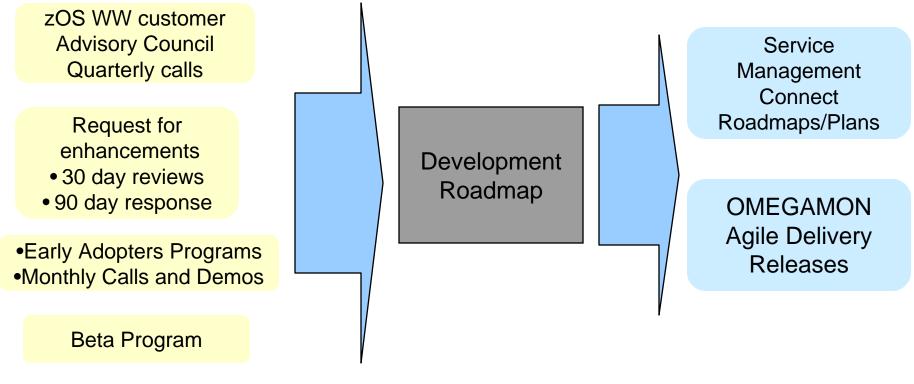






Redesigned OMEGAMON V5.1 capability continues to be driven by high-priority customer requirements

Customer driven capability with new transparent development methodology driven by Agile processes







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

Join OMEGAMON Customer Leadership Council - provide direction and guidance on future releases. *Email: megoodma@us.ibm.com*













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