

IBM Software Group

# OMEGAMON V4.1 -Installation and Update

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Hans Peder Thomsen Consultant IT Specialist hpthom@dk.ibm.com

Tivoli software ON DEMAND BUSINESS<sup>\*\*</sup>

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# Agenda

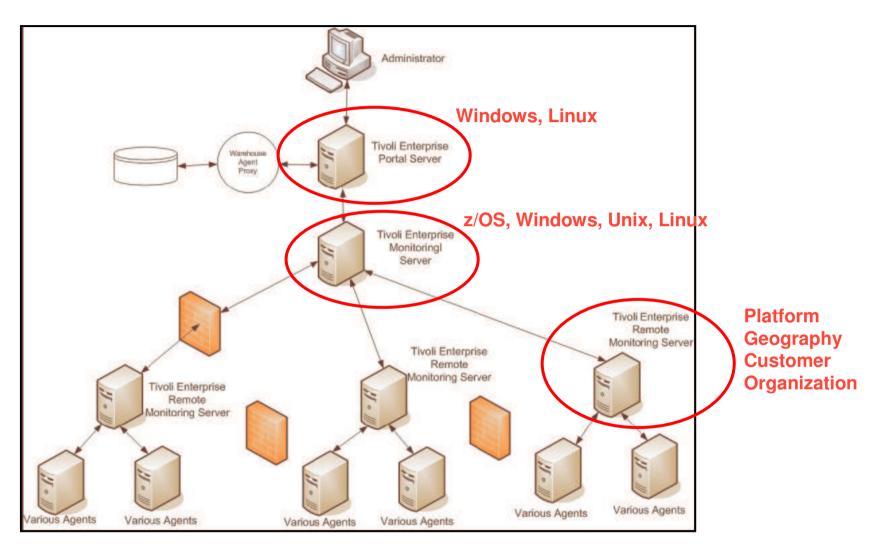
- OMEGAMON Installation
- • What have we learned !
- OMEGAMON XE Version 4
- Integration via TEP
- V 4.1 + SPE Update





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## **OMEGAMON** Infrastructure



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## **OMEGAMON** Installation Challenges

- Organization
- Planning
- Find a server
- Security
- Installation
- Customization
- Product Quality Issue ?
- Choice of Interfaces



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# Organization

- This is cross platform
  - Covering: z/OS, Windows, AIX ?, Linux ?
- This is cross discipline
  - Systems programmer, security specialist, CICS specialist, database administrator, etc.
- Get commitment for participation
  - You need a Windows specialist !
- Get commitment for resources when needed
  - It is very difficulty to create a project plan with fixed time schedules
- Who is responsible for the OMEGAMON solution ?
  - The z/OS systems programmer ? The Systems Management group ?

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And America (Interim)			

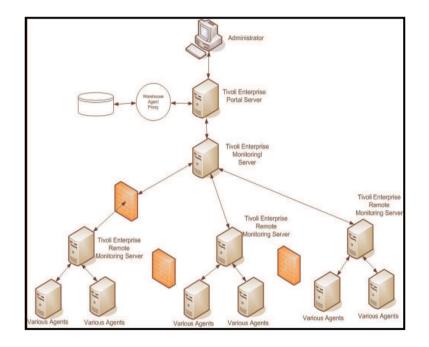
# Planning

- Identify the OMEGAMON team
- Conduct a planning workshop with all participants
- Define activities, responsibilities, co-operation
- Define time frame (be realistic things take time !)
- Define environments (sysprog. test, functional test, system test, production)
- Define test activities (what need to be tested ?)
- Plan installation (migration from test environments to production)
- Plan operation (education of operators, etc.)



## Find a server ?

- How many and which servers are needed ?
  - -Environments (sysprog. test, functional test, system test, production)
  - -Geography, Customers, Etc.
  - -TEPS, Hub TEMS, Remote TEMS, Database server
  - -Backup server
  - -Which platform
- Do you have a problem to get one server ?
- What about ten servers ?
  - -It can take several weeks !
- Must be included in time plan



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# Security

- OMEGAMON users must be defined in TEPS Security Database
  - Define user authorities
  - Validate user access (not user rights) via TEPS server
    - Against RACF if TEMS on z/OS
    - Against LDAP if TEMS on Windows
  - No standard solution to synchronize RACF and TEPS Sec. Database
  - Administration of OMEGAMON users at TEPS must be aligned with normal user administration
- Commands is issued with OMEGAMON User against Started Task not with individual operator userid
  - Is that an issue ?
  - Shouldn't be same approach is accepted with System Automation

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## Installation

- OMEGAMON 4.1 improvements
- Check maintenance level/PTF's across platform
  - Not only z/OS PTF level !
- SMP/E installation
- ICAT customization
- No cloning tool today ICAT customization on each LPAR/system
  - Time consuming at large installations
  - Disk consuming (several copies)
- This issue has been raised
  - IBM DK is working on a cloning solution (short-term)
  - A request to improve the ICAT process in OMEGAMON (long-term)

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## **TEP** Customization

- OMEGAMON is delivered with IBM defined workspaces and thresholds
- Not sufficient for most installations
- Customization is needed
  - Thresholds
  - Situations -> Alerts -> Take actions
  - Policies (cross systems events)
  - Integration with TSA, TWS etc.
- Must include experts (both z/OS, CICS, DB2, etc. and Windows GUI skills)
- Using OMEGAMON Classic will require additional customization

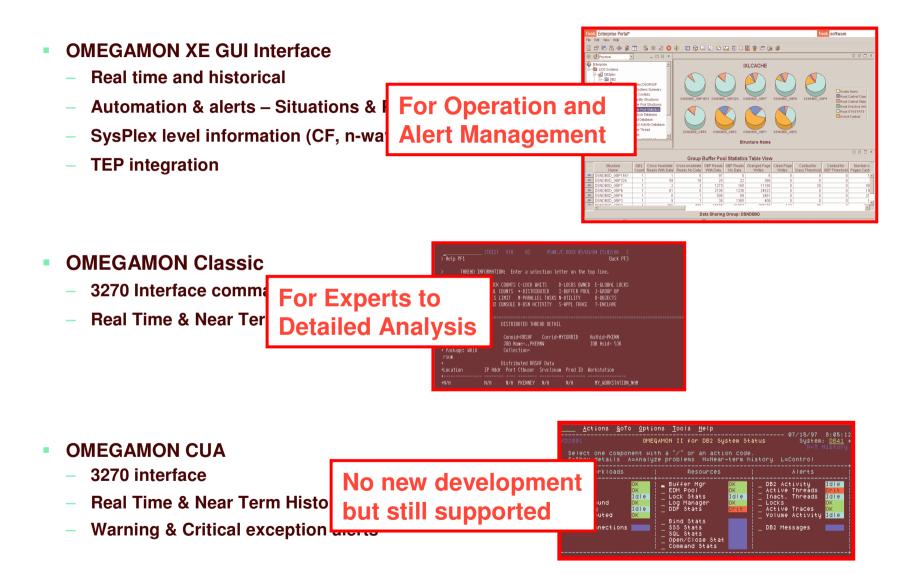


## Product Quality Issue ?

- OMEGAMON 3.1 Agents is running without problems (but many PTF's has been delivered)
- OMEGAMON 4.1 Agents is running without problems
- OMEGAMON / ITM infrastructure (TEMS, TEPS) is running without problems from ITM 6.1 FP05
- Earlier ITM 6.1 could give problems
- With current releases and fix-levels there is no product quality issues !

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### **OMEGAMON - Choice Of Interfaces**





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## **OMEGAMON** Installation Challenges

- Organization Yes a challenge
- Planning –
  Is an absolute requirement
- Find a server –
- Security –
- Installation –
- Customization –
- Product Quality Issue ? –
- Choice of Interfaces –

- is an absolute requirem
- Can take some time
- Must be carefully handled
- Additional improvements in process
- Will always be installation specific
- Not with current releases
- Your choice

# Agenda

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- • What have we learned !
- OMEGAMON XE Version 4
- Integration via TEP
- V 4.1 + SPE Update





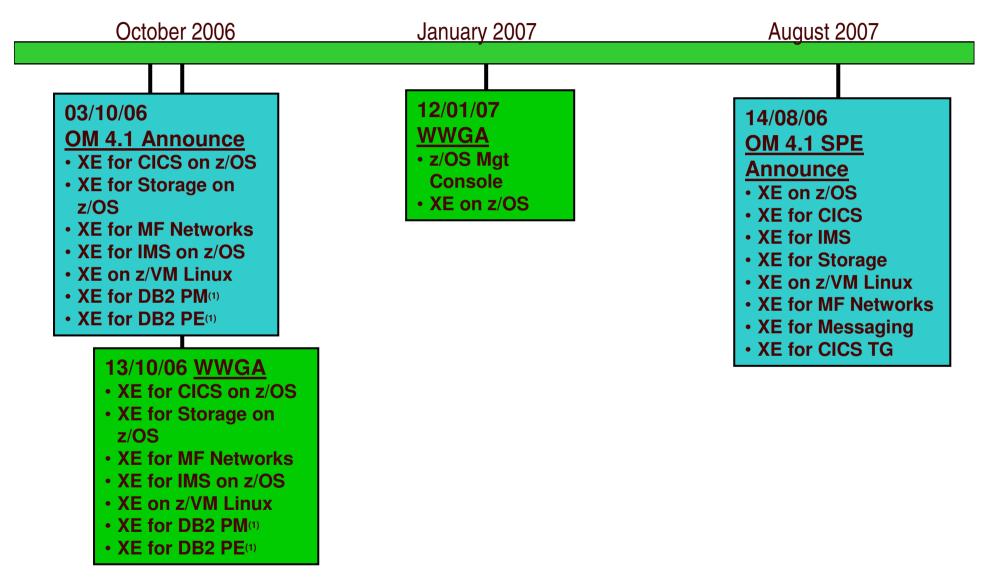




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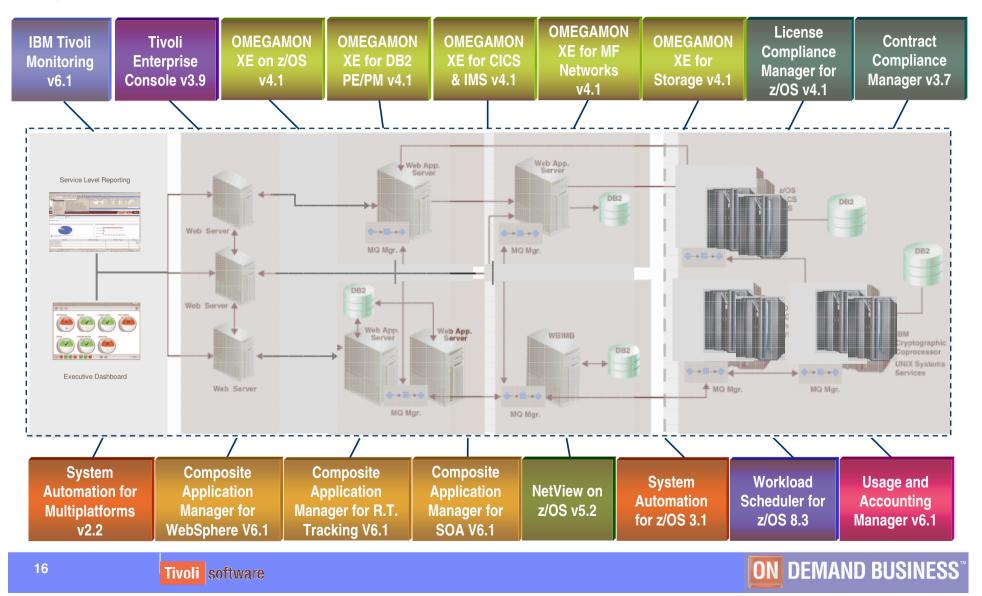
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Tivoli software



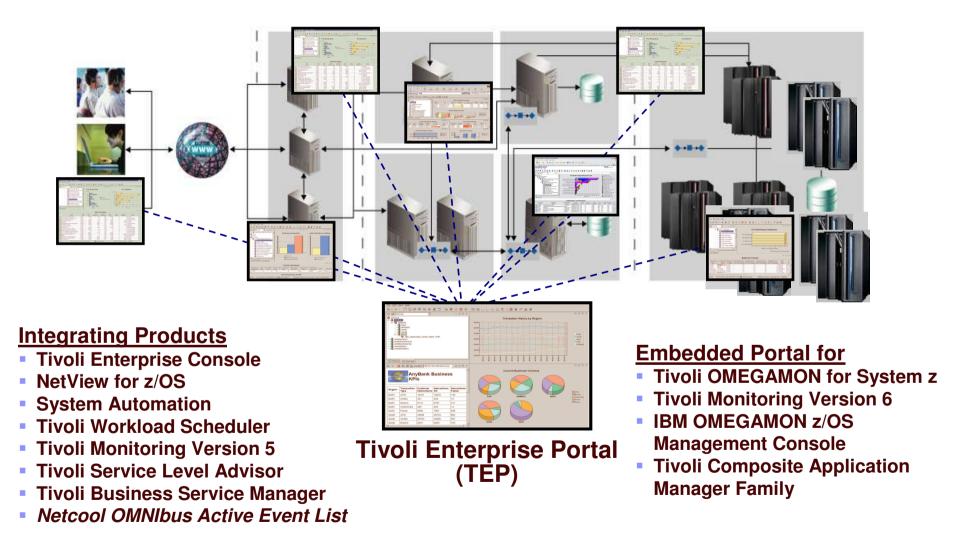
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### End to End Management from Tivoli System z Portfolio



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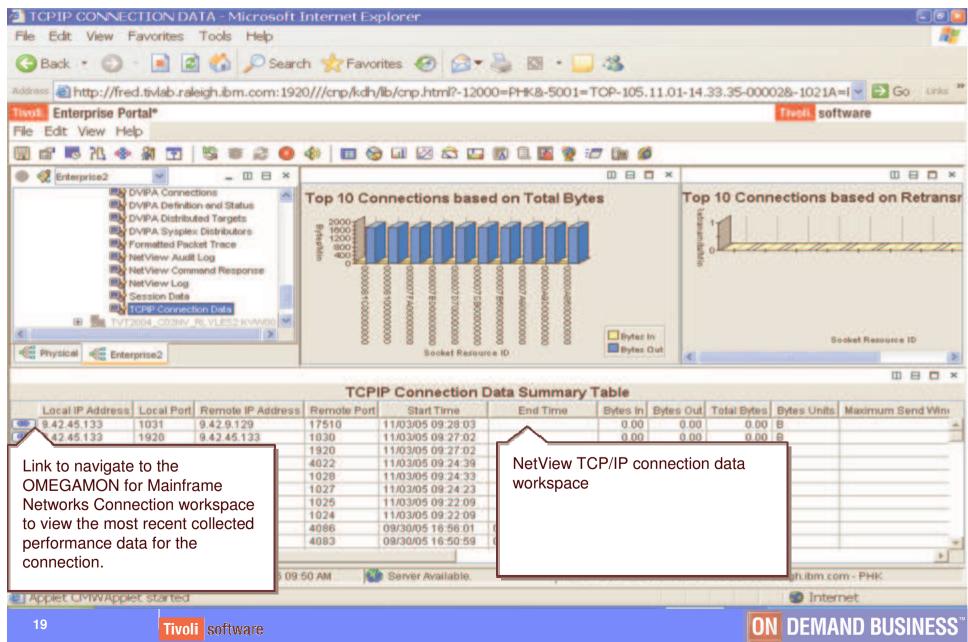


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# New Interoperability/Integration Via TEP

- NetView z/OS V5.2
  - Consolidated TCP/IP workbench with both availability and performance data
  - Interoperability with OMEGAMON XE for MF Networks
  - Workspaces linked with other OMEGAMON XEs
- Tivoli Workload Scheduler
  - Launch-in-context via TEP
  - Monitoring of TWS jobs and OMEGAMON events on a single interface
- Tivoli System Automation
  - Integration via TEP with launch-in-context
  - Additional integration between TSA and TWS

#### NetView TCP/IP Connection Data Workspace



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# TWS on TEP: Details for a Job Description

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# **OMEGAMON 4.1 Key Deliverables**

#### Customer Satisfaction

- Globalization
- Currency Exploitation of new OS and middleware releases
- Customer Enhancements
- Tactical enhancements to 3270 interfaces

### Portfolio Simplification

- Candle Management Workstation and OMEGAMON II continued movement to XE
- Merging of functionality in product suites where it makes sense

### Integration

- Dynamic Workspace Linking
- Launch in Context
  - TSLA, TBSM, and more
- Tivoli Data Warehouse pruning and aggregation

### Serviceability

- Problem Determination Guides
- IBM Support Assistant plug-ins
- Agent Versioning support
- ICAT enhancements

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## **Customer Satisfaction**

### Added Globalization to Group 1 languages

French, German, Italian, Spanish, Portuguese, Chinese (simple & traditional), Japanese, Korean

### Currency and Exploitation

- Day One z/OS Version 1.8 Support/Exploitation
- Added zIIP monitoring by OMEGAMON XE on z/OS & XE on DB2 PE/PM on z/OS
  - Day 1 support via service for OMEGAMON XE z/OS and DB2 PE/PM V3.1 via PTF and enhanced support in 4.1
  - zIIP address spaces, service classes, LPAR data, DDF server thread data, workloads eligible for zIIP that are running on standard CPUs
- CICS Transaction Server V3

#### Tactical Enhancements to 3270 interfaces

 Application Trace Facility for OMEGAMON XE for CICS now in "Classic"

## Integration

### Dynamic Workspace Linking

- THIS IS A BIG ONE – see following slides

### Launch in Context

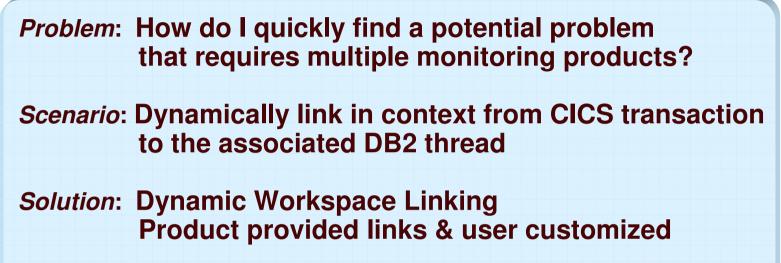
- TSLA, TBSM, and more

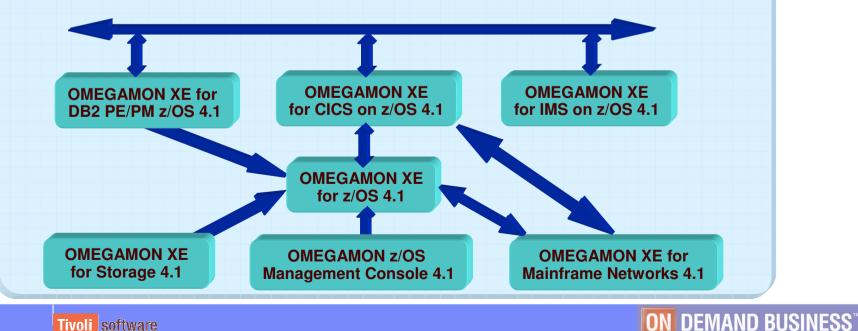
### Tivoli Data Warehouse – pruning and aggregation

- Automatic deletion of data and consolidated reporting by groups, dates, etc.
- Better long-term historical
- Reduces storage requirements
- CCMDB TEP Discovery Library Adapter



## **Dynamic Workspace Linking Functionality**

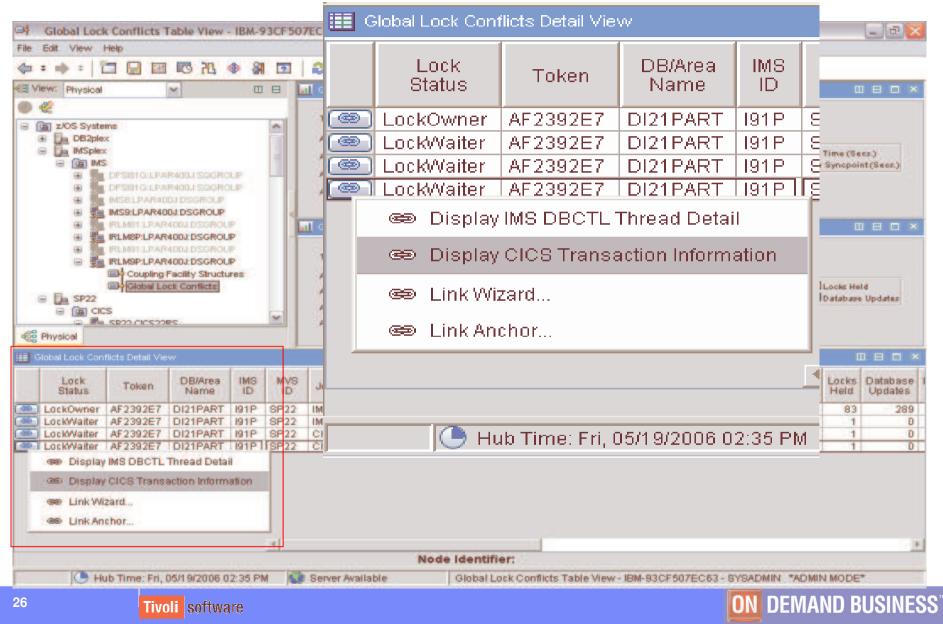




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## **Dynamic Workspace Linking**



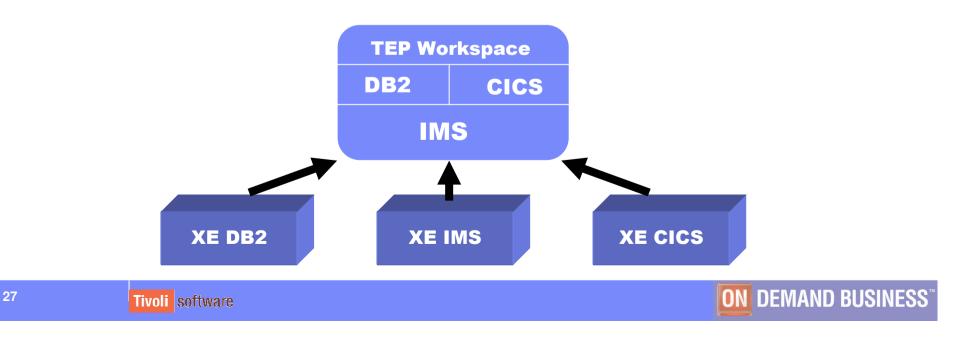


## Dynamic Workspace Linking and OMEGAMON DE

Dynamic Workload Linking (DWL) is linear



- DWL cannot combine attributes from multiple products on a single workspace on z/OS without DE
- DWL cannot provide policies or workflow automation without DE





# Serviceability

### IBM Support Assistant

- Plug-ins to improve product support

#### Problem Determination Guides

- Help customers diagnose and solve operational problems

### Agent Versioning added

- Multi-product version support enable incremental deployment of OMEGAMON 4.1 products
- Customers can run 3.1 and 4.1 versions on different boxes/LPARs
- Makes migration to full ITM 6.1 underlying infrastructure easier

### IBM Customization Assist Tool (ICAT) enhancements

- Simplify SMP/E and Run Time Environment (RTE) installation and deployment (no need to run RTE Load job)
- Simplify configuration with the installation of service
- No need to stop all monitors to activate service on one monitor

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### OMEGAMON XE Version 4.1

#### • OMEGAMON XE on z/OS V4.1

- zAAP and zIIP processor usage and reporting
- I/O rate by address space and Real Storage information from CUA
- z/OS Exploitation CF structure duplexing reporting
- Enclave DB2 and z/OS transplex,
- Basic RMF III launch, optional RMF collection for CF data
  - Better integration with RMF data
  - Higher frequency collection
  - Trade-off: No detail path information

#### • OMEGAMON XE for CICS V4.1

- CICS TS 3.1 Exploitation
  - Web Service analysis reports for Web Service Details, Virtual Host Detail, Pipeline Detail, Document Template Detail
  - Business Transaction Services (BTS) support for long running processes, type, name, container, activity
  - Enqueue pool details for recovery
- Data moved from CUA/Classic to XE
  - CICS Service Level Analysis
  - Application Trace Facility

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### OMEGAMON XE Version 4.1 (Continued)

#### • OMEGAMON XE for IMS V4.1

- New Reporting
  - TRF reporting capability has increased precision expanding transactions to the millisecond
  - HALDB high availability database summaries, partition details, etc.
  - DBCTL Detail Thread reporting for monitoring activities
- Data from CUA/Classic to XE

#### • OMEGAMON XE for DB2 PM/PE V4.1

- Support for zIIP processor usage that is being introduced on the System z9 platform from a DB2 perspective Top ten volume reports
- DB2 version 9 day one support
- Enhanced Thread Overview: Show additional LOCK information and Changed Pages in all Group Buffer Pools.
- Migration from ROBOHELP to Eclipse for added diagnostic help capabilities.

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### OMEGAMON XE Version 4.1 (Continued)

#### • OMEGAMON XE for MF Networks V4.1

- New performance reports for VTAM buffer pool and address space workspaces
- New TN3270 server session workspaces
- Enhanced FTP records resulting in performance improvement.
- Enhancements to Enterprise Extender (EE) reporting

#### • OMEGAMON XE for Storage V4.1

- New dataset attribute database allows versatile and granular reporting capabilities at the dataset level
- New problem solving workspaces adding to your problem determination capabilities
- New storage toolkit for DFHSM and DFDSS functions for database administrators

#### • OMEGAMON XE for z/VM and z/Linux V4.1

- Single solution for managing both z/VM and z/Linux from TEP
- Leverages value of z/VM Performance Toolkit
- Highest list of z/Linux Workspaces

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### OMEGAMON XEs v4.1 – SPE

### • OMEGAMON XE on z/OS

- Support for z/OS V1.9
- OMEGAMON Classic enhancements

### • OMEGAMON XE for CICS

- Support for CICS TS V3.2 and z/OS V1.9
- OMEGAMON Classic enhancements
- DWL to support new MQ workspace

### • OMEGAMON XE for IMS

- Support for IMS V10 and z/OS V1.9
- Create situation and send alert for IMS transaction in status STOP, TRA
- Enhancements to TRF monitoring and reporting

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### OMEGAMON XEs v4.1 – SPE (continued)

#### • OMEGAMON XE for Storage

- Provide a DWL for cross system volume report
- Provide an DFSMShsm cancel command for active tasks

#### • OMEGAMON XE for DB2 PE/PM

- Improved scalability post-processing large amounts of DB2 data
- OMEGAMON Classic enhancements
- DWL with OMEGAMON XE for MF Networks and NetView for z/OS

#### • OMEGAMON XE for z/VM and Linux

- Support for z/VM V5.3, RHEL 5 and SLES 9, 10
- Additional integrated monitoring of Channels and Cache

#### • OMEGAMON XE for Mainframe Networks

 Monitoring of IPSec secure data transmission – effectiveness of IP filters, performance of IPSec tunnels, identification of potential network attacks

# Summary

- OMEGAMON Installation
- Yes we have learned a lot !
- OMEGAMON XE Version 4
- Integration via TEP and DWL
- Many functional enhancements





