A Fresh Look at the Mainframe

The New Face of Mainframe Operations

On Demand Insurance CIO Needs to Satisfy Service Levels

I must make sure to meet my service level commitments. With these new applications, it's more important than ever, but the CEO won't increase my budget for operations

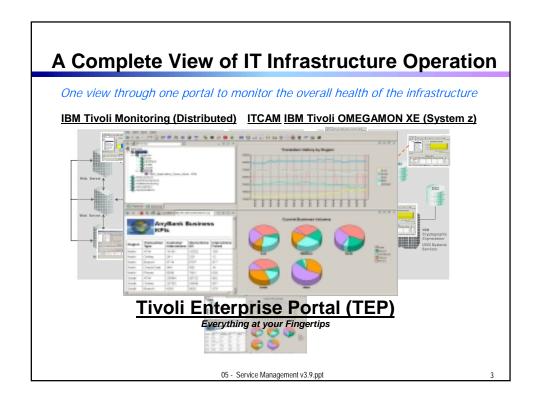


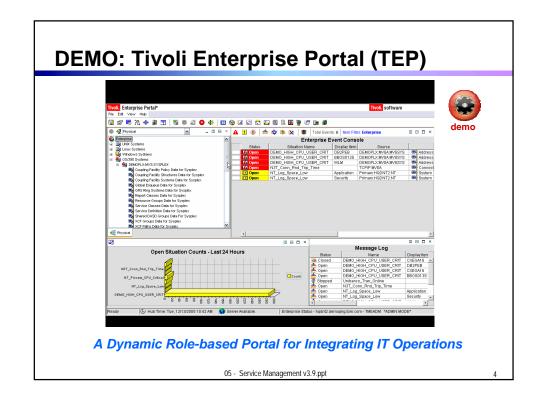
On Demand Insurance

IBM Tivoli can help, without adding staff

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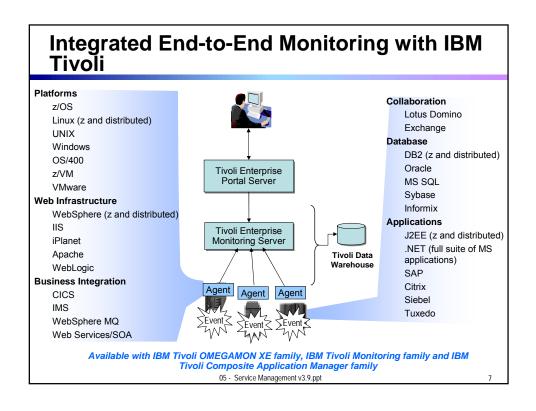
Tivoli Enterprise Portal (TEP) A Dynamic Role-based Portal for Integrating IT Operations

- A common user interface makes operations management across all platforms easier
- TEP is used to display information from IBM Tivoli solutions, including:
 - ▶ IBM Tivoli OMEGAMON family; IBM Tivoli Monitoring (ITM) family; IBM Tivoli Composite Application Manager (ITCAM) family; IBM Tivoli Workload Scheduler family
- Integrated end-to-end monitoring allows for fast resolution of complex problems quickly and easily
- Using TEP, it is easy to create customized role-based views of the enterprise
 - Workspaces for operators, Systems Programmers, Application Programmers, Network Administrators, and IT Management

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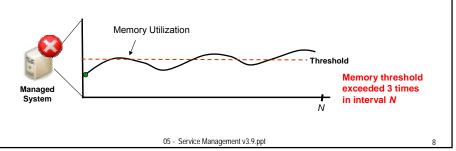
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Comprehensive Monitoring Services Retrieval, manipulation Single interface Tivoli Enterprise and analysis of data Portal Server for managing IT Infrastructure Collect and correlate Tivoli Enterprise monitoring data Monitoring Server Single, integrated central repository to store long term Tivoli Data historical data for analysis Warehouse Intelligent Monitoring Agent Agents on managed systems send alerts and data 05 - Service Management v3.9.ppt



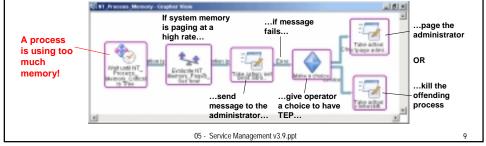
Define Situations that Indicate Abnormal Operations

- Agents send metrics to the Monitoring Server
 - ▶ Examples: CPU usage, Disk usage, memory usage
- Operators define threshold values for metrics by specifying conditions
- Operators define situations that contain one or more conditions to test
 - ▶ When all conditions are met, the situation causes an alert
 - Management agents come with pre-defined situations that can be modified or extended



Automate Responses Using Policies

- A policy comprises a series of automated steps called activities that are connected to create a workflow
 - Policies perform actions, schedule work, and automate manual tasks
 - ▶ Policies can be fully-automated or require user intervention
 - Allows operator intervention and decision-making
- Use the Workflow Editor to create and manage automated response policies

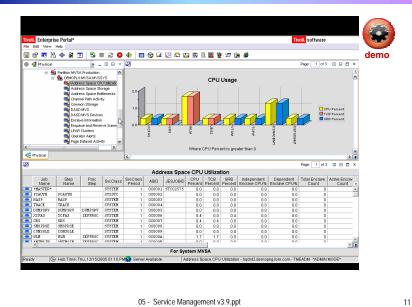


Monitor z/OS with IBM Tivoli OMEGAMON XE on z/OS

- Monitor key resources CPU, LPARs, I/O, enqueue, paging, and others
- Manage and tune Workload Manager service classes
- Monitor Parallel Sysplex environments, such as Coupling Facility status and related resource metrics
- Real-time performance metrics for IBM Cryptographic Coprocessors
- zAAP processor usage and reporting for Java workloads
- Processor usage and reporting for zIIP (introduced on System z9)
- Predefined, customizable out-of-the-box automation situations
- Expert advice explains alerts and offers potential fixes
- Dynamic workspace linking to other OMEGAMON XE products

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DEMO: Monitor z/OS with IBM Tivoli OMEGAMON XE



Manage Networks with IBM Tivoli OMEGAMON XE for

Mainframe Networks and IBM Tivoli NetView for z/OS

 Manage VTAM sessions and TCP/IP connections from a single integrated interface

- Provides detailed analysis of TCP/IP connections that are slow, unstable, or down
- Measures application throughput rate and generates alerts if it increases over the baseline
- Measures transaction round-trip time, round-trip variance time, and other key metrics which provide a picture of end-user performance
- Automatic trouble ticket creation using IBM Tivoli Information Management for z/OS and Peregrine ServiceCenter

 * Subject to change by IBM without notice.

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Monitor CICS systems with IBM Tivoli OMEGAMON XE for CICS on z/OS

- Monitor transaction resource usage and performance
- Identify tasks waiting for specific resources and pinpoint excessive wait times
- Monitor Java applications using the Java Virtual Machine (JVM) in CICS in addition to CICS dispatcher and TCP/IP connection
- Monitor Virtual Storage Access Method (VSAM) files and identifies record level sharing lock contention
- Correlate CICS log streams with associated facility structure to fine-tune CICS systems
- Correlate DB2 threads with CICS transactions to enable quicker problem identification and resolution

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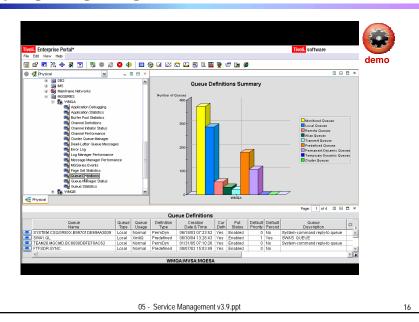
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Monitor DB2 Performance with IBM Tivoli OMEGAMON XE for DB2 PM/PE on z/OS

- Monitor, analyze and tune the performance of IBM DB2 Universal Database and IBM DB2 applications
- Monitor threads, I/O, buffer pools, and SQL cache
- Monitor interaction of DB2 with CICS, IMS, and batch processes
- Monitor DB2 Connect track communication between DB2 Connect and host thread
- Provides in-depth analysis with a wide range of detailed, customizable reports

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DEMO: Monitor DB2 Performance with IBM Tivoli OMEGAMON XE



The Value to A Real Customer

<u>A Case Study – Large European Financial Services</u> <u>Company</u>

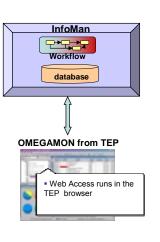
- Migrated from BMC system management tools to IBM Tivoli OMEGAMON XE family
- Benefits
 - ➤ The Tivoli applications offer a richer set of features that have led to several benefits, including the following:
 - √ 10 percent increase in availability
 - 20 percent improvement in I/T staff productivity
 - √ 30 percent reduction in I/T costs
 - ▶ I/T staff detect problems before they occur and take steps to prevent them, resulting in increased system availability for the entire company and improved customer service.

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Did you know that you can link OMEGAMON to IBM Tivoli Information Management for z/OS (InfoMan) for trouble ticketing?

Incident Management with IBM Tivoli Information Management for z/OS (InfoMan)

- Automatic incident creation from IBM Tivoli OMEGAMON and IBM Tivoli NetView
- Problem entry, assignment, notification, tracking and escalation
- Change-request tracking and approval
- Utilities to integrate with customer-built applications
- InfoMan and IBM Tivoli Web Access for InfoMan offer Blackberry support for viewing information and approvals



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