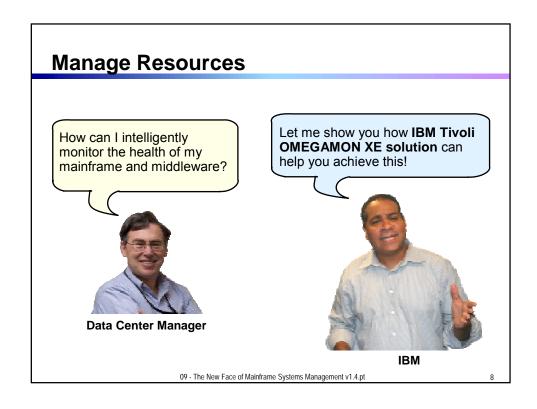
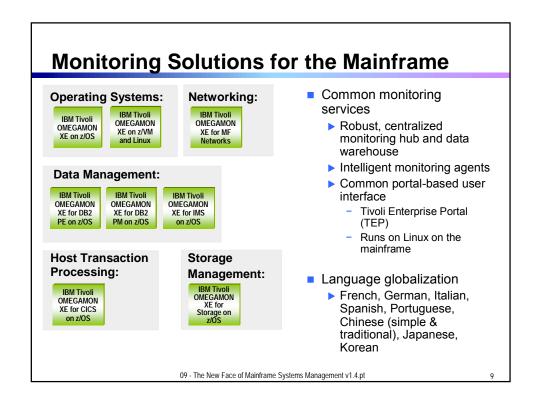


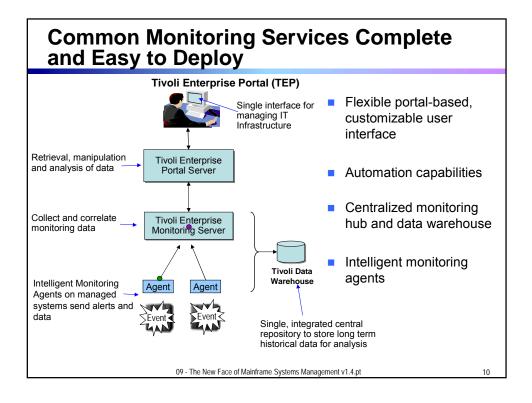
### **Mainframe Management with IBM Tivoli**

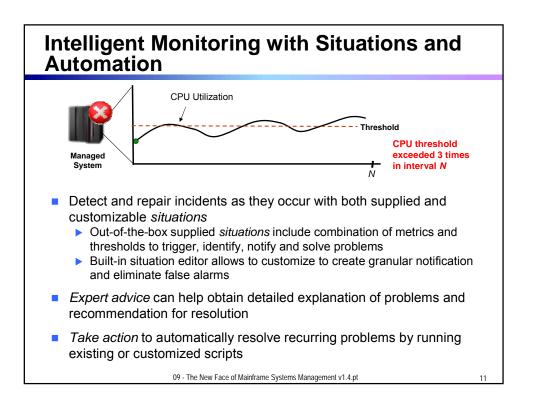
- Manage Resources
  - Monitor health of the mainframe components and middleware such as DB2 and CICS
    - IBM Tivoli OMEGAMON XE Family
- Manage Web Services
  - Monitor web services to identify the source of bottlenecks or failures in services
    - IBM Tivoli Composite Application Manager for SOA
- Manage Traditional Batch Workloads
  - ▶ Monitor, plan and control the processing of batch workload
    - IBM Tivoli Workload Scheduler for z/OS

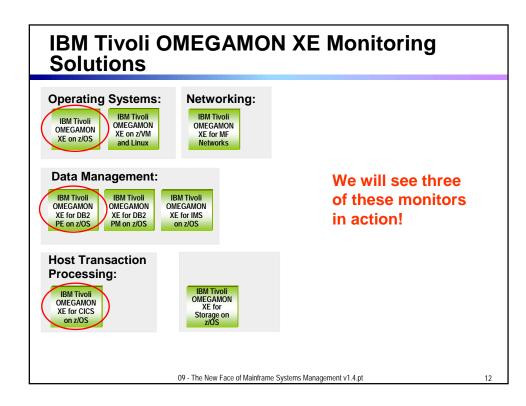
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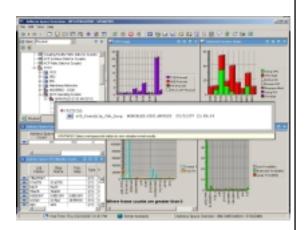
## Monitor z/OS with IBM Tivoli OMEGAMON XE on z/OS

- Monitor key mainframe resources to diagnose bottlenecks
  - CPU, LPARs, I/O, enqueue, paging, coupling facility, DASD, and more
  - Manage and tune Workload Manager service classes
  - zIIP and zAAP processor usage and reporting
- Quickly resolve problems with increased productivity
  - Customizable workspaces help pinpoint performance issues
    - Dynamic workspace linking to other OMEGAMON XE monitors to improve problem resolution
  - Situations Predefined, customizable out-of-the-box automation situations to respond promptly to problems
  - Expert advice View advice about an alert. Advice customizable to provide site-specific information
  - ➤ Take action Resolve problems by running built-in scripts or easily create new scripts

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## DEMO: Monitor z/OS and Fix Problems with IBM Tivoli OMEGAMON XE on z/OS

- Monitor CPU usage
- Raise a situation because CPU usage high for an address space running accounting update batch job
- Take Action to cancel the job to resolve the problem



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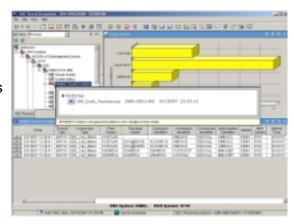
# Monitor DB2 Performance with IBM Tivoli OMEGAMON XE for DB2 PE on z/OS

- Monitor, analyze and tune the performance of IBM DB2 Universal Database and IBM DB2 applications
  - ▶ Monitor threads, lock conflicts, I/O, buffer pools, and SQL cache
  - Monitor interaction of DB2 with CICS, IMS, and batch processes
  - Monitor DB2 Connect and track communication between DB2 Connect and host thread
- Provides in-depth analysis with a wide range of detailed, customizable reports
- Increase productivity
  - Customizable workspaces, intelligent situation definition, expert advice and take action

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## DEMO: Resolve DB2 Lock Conflicts with IBM Tivoli OMEGAMON XE DB2 PE on z/OS

- Monitor DB2 threads
- Raise a situation isolating lock conflict between DB2 threads updating customer records
- Take Action to issue cancel command to resolve conflict



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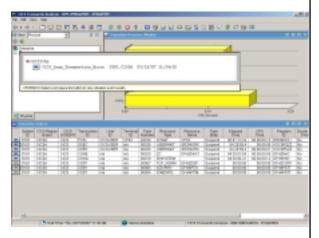
# Monitor CICS Systems with IBM Tivoli OMEGAMON XE for CICS on z/OS

- Monitor transaction performance
  - Identify tasks waiting for specific resources and pinpoint excessive wait times
  - Identity bottlenecks at record level
    - Monitor virtual storage access method (VSAM) files and identifies record level sharing lock contention
  - ▶ Monitor Java applications using the Java Virtual Machine (JVM) in CICS in addition to CICS dispatcher and TCP/IP connection
- Increase productivity
  - Customizable workspaces, intelligent situation definition, Take action and Expert advice
  - Dynamic workspace linking with other OMEGAMON XE monitors for quick problem resolution
    - Correlate DB2 threads with CICS transactions to enable quicker problem identification and resolution

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## **DEMO:** Resolve CICS Transaction Performance Issues with IBM Tivoli OMEGAMON XE

- Monitor performance of CICS transactions to process car loan
- Raise a situation isolating increase in rate of CICS transactions
- Take Action to issue cancel command to resolve the problem



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### Stadtsparkasse München (SSKM)

### Stadtsparkasse München

"The IBM Tivoli OMEGAMON solution at SSKM integrates processes across the enterprise ... Without such an integrated end-to-end view it would be difficult to ensure that processes have the resources they need to run at the highest availability."

— Randolph Sigmund IT System Architect Stadtsparkasse München

#### **Business Challenge**

To maintain and improve market position in a competitive private banking marketplace, SSKM needed to ensure maximum availability of the business critical portals based on IBM zSeries

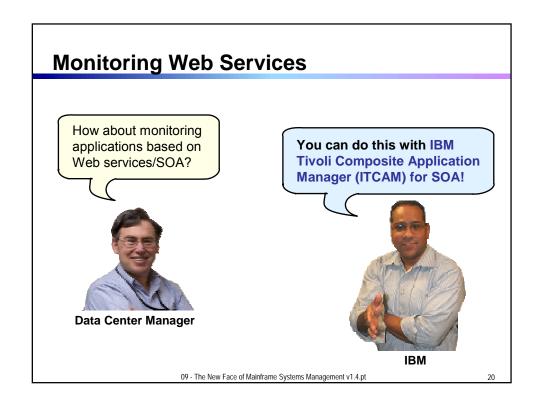
#### On Demand Business Benefits

- Integrated processes across the enterprise, creating a single point of control that can detect and identify system problems before they can negatively affect customer facing applications
- Simplified IT management avoided 10 person staff increase
- Improved availability of systems and applications demonstrated by 0% downtime in 5 years
- Increased customer satisfaction

#### Solution

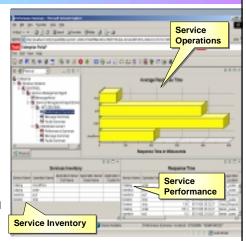
IBM Tivoli OMEGAMON XE family

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#### Manage Your Services Using IBM Tivoli Composite Application Manager (ITCAM) for SOA

- Isolate web service performance problems
  - Track key service metrics such as response time, number of messages, message size, faults
- Automation to resolve issues
  - ▶ Built-in and extensible alerts, situations enable powerful automation scenarios
- Integration with WebSphere Service Registry and Repository (WSRR)
  - Allows for reconciliation of services registered in WSRR with those monitored in target systems by ITCAM for SOA
  - ► Forwards status information to WSRR to allow users to select services based on performance and other metrics



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