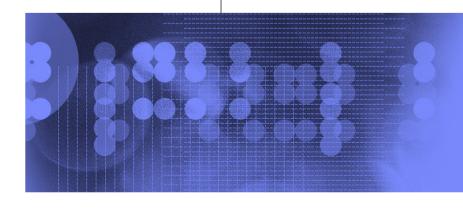


IT Service Management and System z

David Caddis, Director IBM Tivoli Market Management





Agenda

- IT Challenges and System z
- IBM System z and IT Service Management
- IT Service Management solutions from IBM
- Next steps to realizing the value of ITSM



"What matters is how satisfied customers are, how costs are being saved on the supplier side, and how to allow for more creativity and added value at all levels of the organization." --Erik Brynjolfsson, Director of the Center for eBusiness at MIT



IT Service Management and System z

- ITSM: Logical evolution of Systems Management:
 - Management focus shifting from IT resources to business services
 - Resources becoming more autonomic
 - Processes need to be more than just paper
 - instantiated as automated workflows to ensure compliance and consistency
- No better foundation for ITSM than System z
 - In the face of constant change, System z remains an effective and efficient platform
 - High availability ...resiliency....transactional performance and security
 - Low total cost of ownership
- We're committed to bringing System z solutions that:
 - Expand System z capabilities while enhancing its proven strengths
 - Reduce the costs associated with operations and systems management





IT Organizations Face Tremendous Challenges

Challenges are coming from many fronts:

- Change: Market demands, workloads, service levels
- Compliance: Regulations, security, audit capabilities
- Complexity: Heterogeneous resources, organizational silos, composite applications
- Cost: Management and administration



"We're trying to resolve a huge morass of IT complexity, while demand for our services keeps going up. We're getting hit from both sides. So what are we doing about it? We're delivering an adaptive IT organization that provides services on demand to support the needs of the business." — George Surdu, Director, Global Information Technology Infrastructure, Ford Motor Company, September 2005



Reasons Behind the Revolt:

Compliance Initiatives Stress IT / Business Linkage

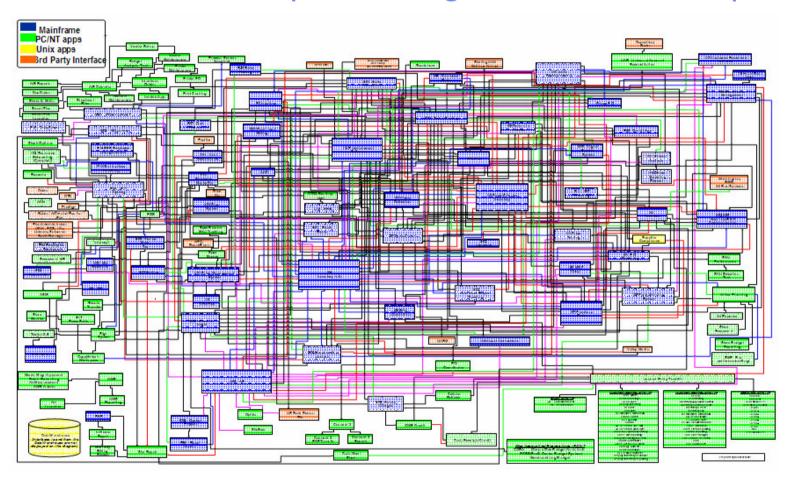
- IT is completely intertwined with business processes
- Compliance initiatives demonstrate increased reliance on IT
 - Identity and access management
 - Data protection, retention and archiving
 - Change management
- Serious consequences increase focus
 - Sarbanes-Oxley
 - Basel II Accord
 - Patriot Act
 - HIPAA





Reasons Behind the Revolt:

Architectural Complexity Reduces IT Efficiency and Effectiveness and Exposes Organizational Complexity





Organizational Complexity Compounds the Problem

Managing composite applications across IT silos is major challenge

Desktop Experts and Tools

Network Experts and Tools Application Experts and Tools Database Experts and Tools

Server Experts and Tools Mainframe Experts and Tools Storage Experts and Tools

Availability Management

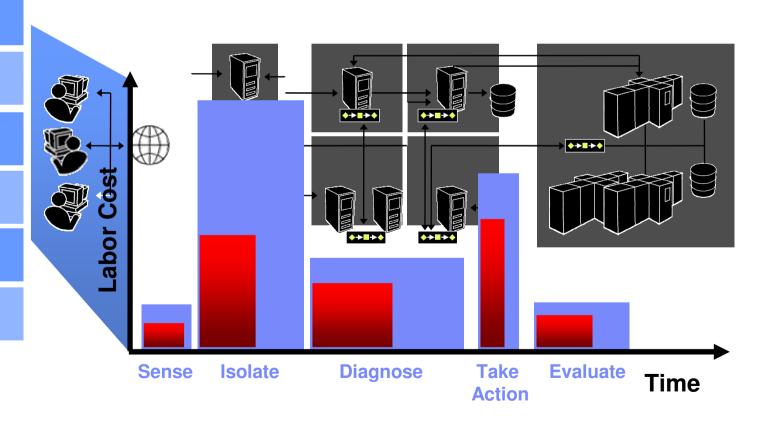
Change Management

Service Level Management

Security Management

Information Lifecycle Management

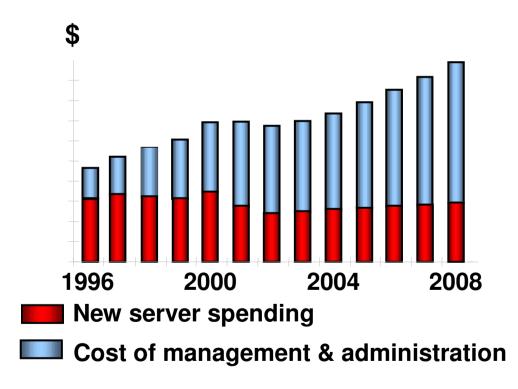
Release Management





IT Infrastructure Trends – Rising Operational Costs

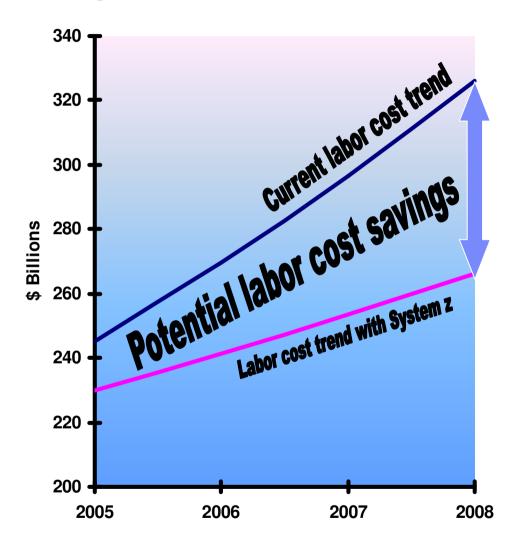
Managing volatility, complexity and compliance measures have boosted operational costs ... at the expense of new initiatives.



- 70% of CIO budget is labor
- \$325B in operations labor by 2008
- Application development will decline at -10% CGR to 2008



Pulling Down the Labor Cost Curve with System z

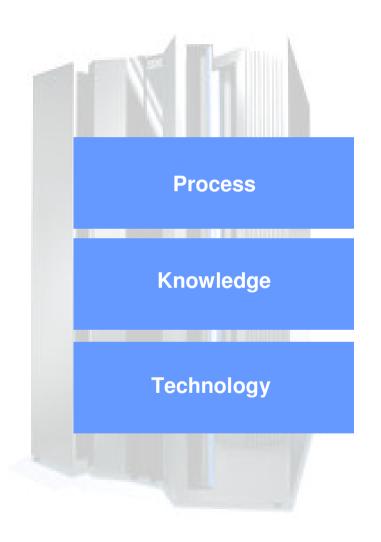


How can we reduce the cost of operational labor, and refocus the investment for the benefit of the business?

- Process System z has historically encouraged and embraced process automation
- Knowledge 40 years of experience and discipline
- Technology World class technology delivering resilience, security and transactional performance



System z Core Competencies



Process is part of the System z DNA. The automation of business processes has been performed with System z for decades.

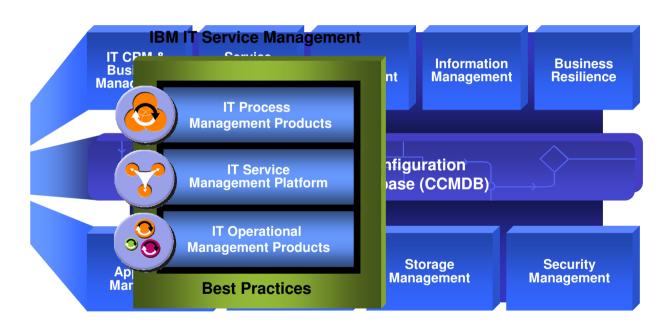
With 40 years of experience, no other platform embodies the discipline, knowledge and skills of System z

System z has established itself as the most available, secure and capable platform ever deployed



IBM IT Service Management - Innovation that Matters

The industry's most comprehensive set of products, services and solutions



- Open and federated Change and Configuration Management Database (CCMDB)
- Proven technology for integrating 'Process to Product' -- including third-party vendors
- Based on self-managing autonomic technologies and best practices such as ITIL and eTOM
- Built on an SOA architecture, and can manage and secure SOA environments



Business

Resilience

Service

Continuity

Process Manager

Security

Process Manager

IT Process Managers Bridge Organizational Silos

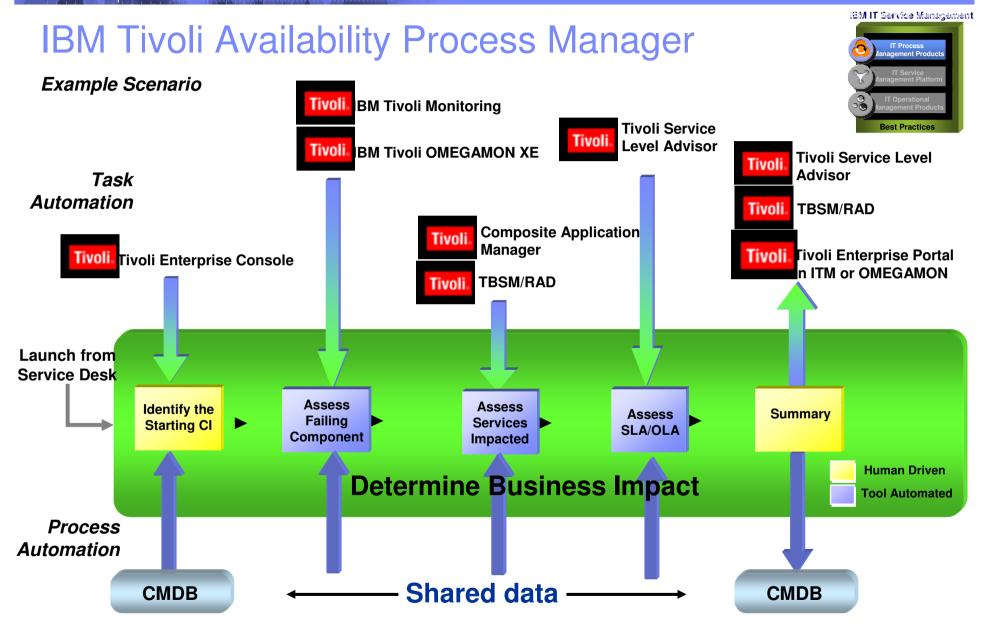
IBM IT Service Management



Available Now! Available in 2H 2006! Future Directions

- Automates IT management processes for rapid responsiveness and greater flexibility
- Based on experience applying ITIL, eTOM, CoBIT and CMMI in customer environments
- Extends autonomic computing technology experience to people, processes and information





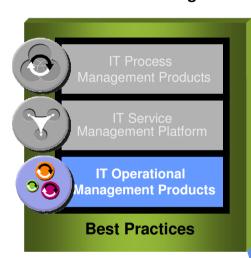


IT Operational Management Products

Integrated across silos through the ITSM platform to the IT process

management products

IBM IT Service Management



Tivoli Product Portfolio Available TODAY!

Tivoli Products in Technology Preview Announcement

Business Application Management	Server, Network & Device Management	Storage Management	Security Management
Products include: Tivoli Composite Application Manager Family Tivoli Business Systems Manage Tivoli Intelligent Orchestrator Tivoli Service Lev Advisor Tivoli Contract Compliance Manager Tivoli License Compliance Manager Family Netcool/Impact Netcool/RAD	Family Tivoli NetView	Products include: Tivoli Storage Manager Tivoli Continuous Data Protection for Files TotalStorage Productivity Center	Products include: Tivoli Access Manager Family Tivoli Identity Manager Family Tivoli Federated Identity Manager Family Tivoli Directory Server Tivoli Directory Integrator Family Security Compliance Manager Tivoli Security Operations Manager



CCMDB and System z: System z Discovery

- Tivoli Enterprise Portal Discovery Library Adapter
 - Resources: All managed systems, including distributed agents and OMEGAMON XE mainframe agents
 - Attributes such as URL for context sensitive launch into TEP
 - Designed to be as easy as possible to deploy and run.
 - No special customization needed.
 - Leverages ITM V6.1 common shared services
- z/OS Discovery Library Adapter (Beta)
 - Resources: System z Machine, LPAR, z/OS, Address Spaces including IMS, DB2, CICS, MQ, WAS
 - Attributes such as Release, MSU Capacity
 - Designed to be as easy as possible to deploy and run.
 - No special customization needed.
 - No special prerequisites just a working z/OS system



End to End Management from Tivoli System z Portfolio

Tracking V6.1

WebSphere V6.1

OMEGAMON OMEGAMON License **OMEGAMON OMEGAMON OMEGAMON** Contract **IBM Tivoli** Tivoli XE for MF XE for Compliance XE on z/OS XE for DB2 **XE for CICS** Compliance Monitoring **Enterprise Networks** Manager for **Storage** v4.1.0 PE/PM v4.1.0 & IMS v4.1.0 Manager v3.7 Console v3.9 v6.1 v4.1.0 v4.1.0 z/0S v4.1 Web App. Service Level Reporting Web Server MO Mar. 4 # MO Mor. DB2 Web Server Web App. Web App. Executive Dashboard Web Server MO Mar. MQ Mgr. **System** Composite Composite Composite System Workload **Usage and NetView on Automation for Application Application Application** Scheduler for **Automation Accounting** Manager for z/OS v5.2 **Multiplatforms** Manager for Manager for R.T. for z/OS 3.1 z/OS 8.3 Manager v6.1

SOA V6.1

© 2006 IBM Corporation

v2.2



IBM Best Practices and Implementation Support



IBM Tivoli Unified Process

- IBM Process Reference Model for IT incorporates ITIL, COBIT, and IBM best practice processes in a complete, cohesive model
- Tools Mentor make ITIL actionable!

Open Process Automation Library (OPAL)

Comprehensive online catalog of more than 300 validated product extensions

IBM Global Technology Services

- Innovation Workshops
- Infrastructure Services Readiness Engagement
- IT Service Management Design
- Implementation Services

Ecosystem of System Integrators and Business Partners

- Vision Creation Workshops and Readiness Assessments
- ITIL Process Design
- Consulting and outsourcing services
- Implementation and deployment services



Summary

IBM Tivoli is committed to bringing System z solutions that:

- Expand System z capabilities while enhancing its proven strengths
- Reduce the costs associated with operational and systems management

Integrate and Interoperate

 Maintaining our leadership in enhancing System z hardware and software to integrate and interoperate with new platforms and applications

End-to-End Solutions

 Providing End-to-End management solutions to find and fix problems quickly, leveraging System z and Tivoli solutions

ITSM Solutions

Delivering ITSM solutions that can meet your key IT challenges cost effectively







Call to Action

- Reaffirm the value of System z with your Decision Makers
- Identify the role of System z for your company's ITSM strategy
- Leverage the investment in the System z portfolio
- Take the leadership role in your company's ITSM deployment

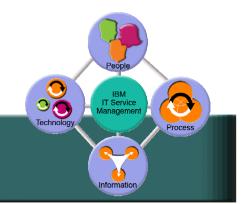




BACKUP



IBM IT Service Management

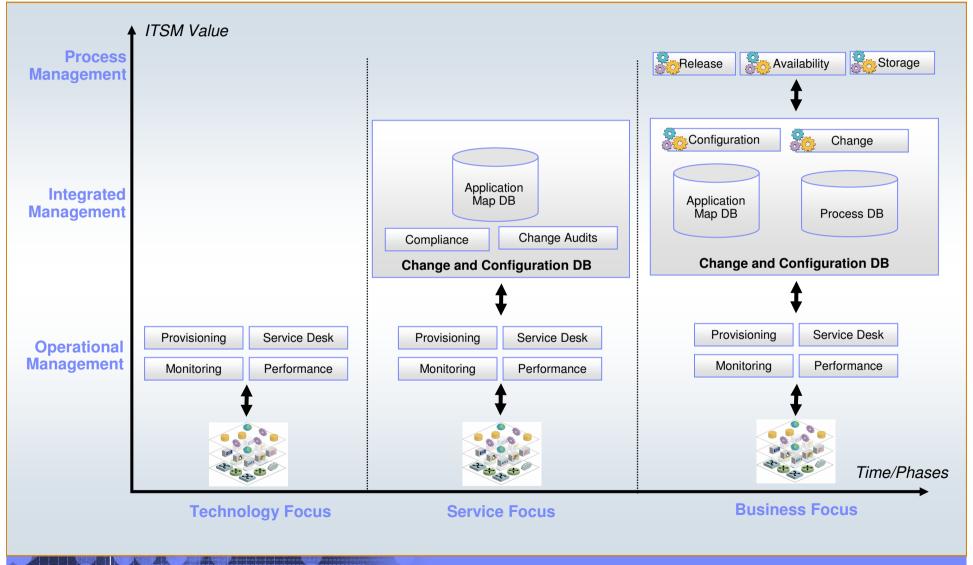


A Better Way to Manage the Business of IT

- Effectively and Efficiently Deliver IT Services Aligned with business priorities
- Quantifiable process performance End-to-end process measurements and quantification
- Extract Greater Value of Existing Investments Tighter Integration across technology, information and people
- Increase IT Organizational Productivity Alignment of IT silos through data and workflow integration



Taking a Modular Approach to IT Service Management





ITUP Today

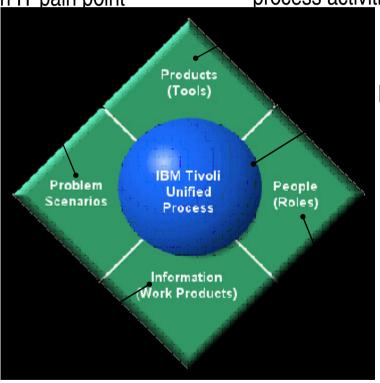
http://www.ibm.com/software/tivoli/features/it-serv-mgmt/itup/tool.html

Scenarios

 How various elements of ITUP work together to solve an IT pain point

Tool mentors

 How to use specific tools to implement process activities



Processes

 ITIL-aligned processes for managing IT (down to activity) Model for IT (PRM-IT).
PRM-IT was developed
jointly by IGS and Tivoli
experts based on the
experience from
hundreds of customer
engagements and the
best practices in industry
process methodologies.
In the area of ITSM, the
focus of ITUP & PRM-IT
is strongly aligned with
the Information
Technology Infrastructure

Library (ITIL)

ITUP is based on IBM's

Process Reference

Work products

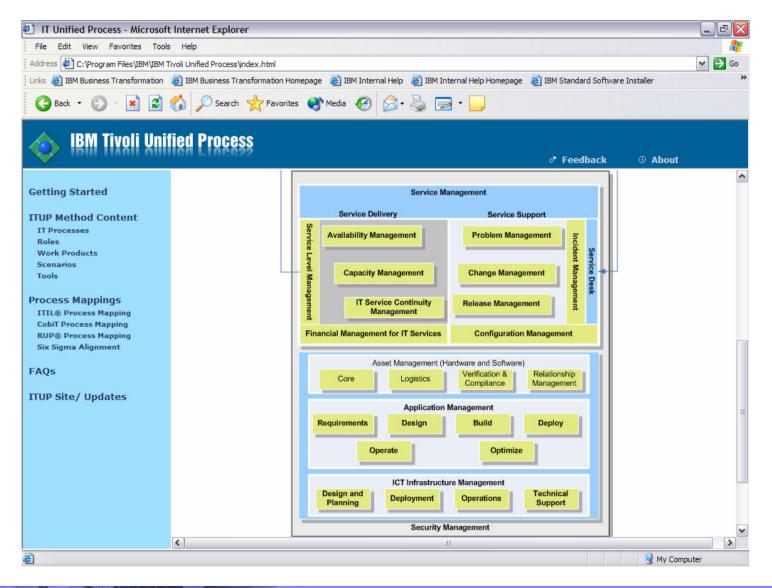
 What is consumed and produced by each process activity

Roles

 Roles performed and detailed responsibilities

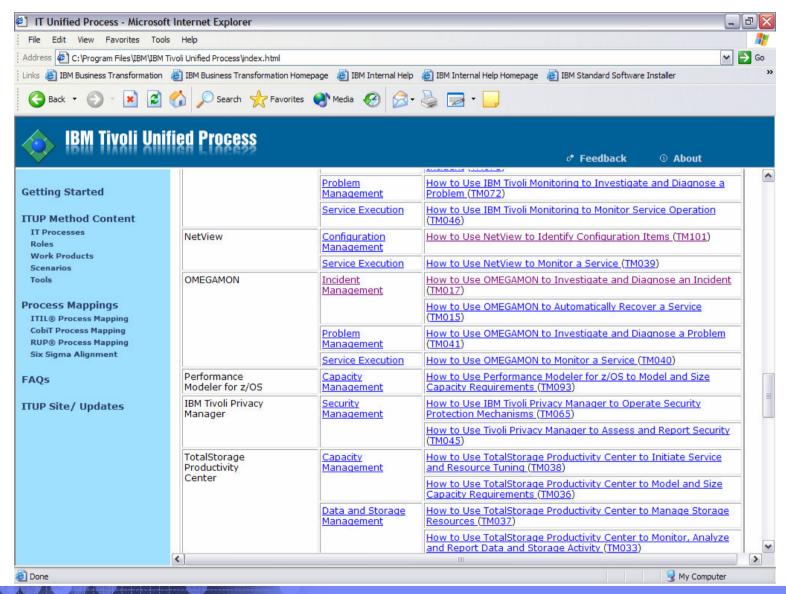


ITUP: Mapping Process to Products





ITUP: Tool Mentors





OPAL – Partnering for Your Success

Online ecosystem for sharing IT Service Management best practices and new capabilities

- Comprehensive online catalog of more than 300 validated product extensions
- Automation packages, integration adapters, agents, documentation and more
- Helps customers get more value from Tivoli products ... and faster!
- For information about OPAL: http://www.ibm.com/software/tivoli/opal





CMDB Federation Open Standards

- Multi-vendor collaboration
- Industry-wide specification for CMDB federation
- Enables clients to share information between CMDBs and other data repositories across heterogeneous IT environments
- Submission to standards body later this year
- Endorsed by itSMF





© Copyright IBM Corporation 2006 All rights reserved.

IBM, the IBM logo, System z, Websphere, Lotus, Notes, Domino, z/OS, DB2, eServer, zSeries and z/VM are trademarks of International Business Machines Corporation in the United States, other countries, or both.

Microsoft, Windows, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both. Microsoft product screen shots reprinted with permission from Microsoft Corporation.

Linux is a trademark of Linus Torvalds in the United States, other countries, or both.

Other company, product, or service names may be trademarks or service marks of others.

The information is provided "as is" without warranty of any kind, express or implied and is based on IBM's current product plans and strategy, which are subject to change by IBM without notice. IBM shall not be responsible for any damages arising out of the use of, or otherwise related to, this information. Nothing contained herein is intended to, nor shall have the effect of, creating any warranties or representations from IBM (or its suppliers or licensors), or altering the terms and conditions of the applicable license agreement governing the use of IBM software.

All customer examples described are presented as illustrations of how those customers have used IBM products and the results they may have achieved. Actual environmental costs and performance characteristics may vary by customer.