Extending Your Mainframe for More Business Value

Extend IT Service Management

Managing IT Service Issues in the Data Center

We are overwhelmed with IT service issues each day. One of my key staff is retiring.

My new employees don't have the experience to handle them.



Service Oriented Finance Data Center Manager



New Employee

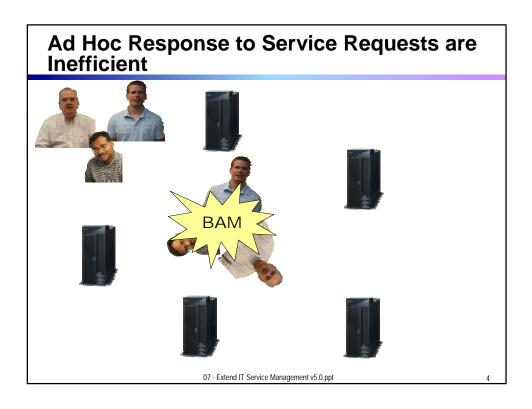


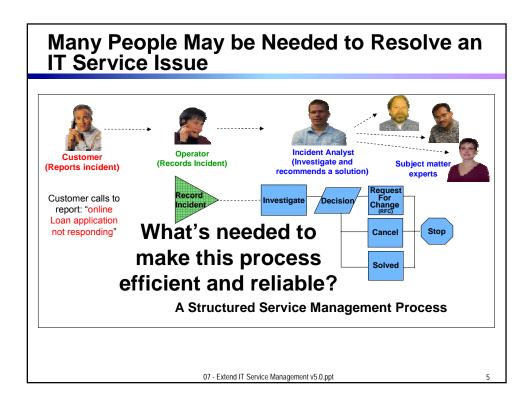
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New Employee

Consequences

▶ Delays, rework, dropped problems





IBM Prescriptive Approach to IT Service Management Visibility Control Automation

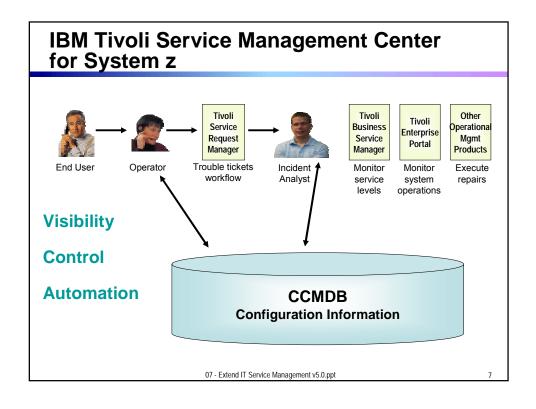
What is actually installed in my environment?

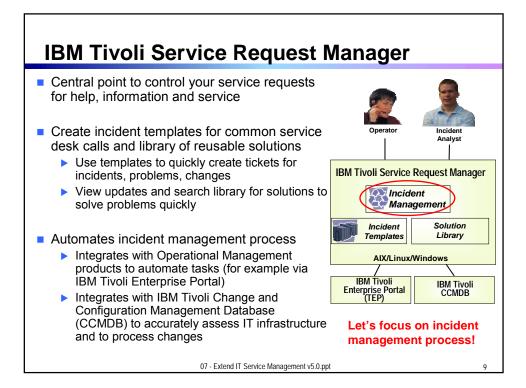
Structured process to resolve issues

Use tools to automate repeating tasks

Respond faster and make better decisions Improve quality and reduce mistakes Lower costs and build agility

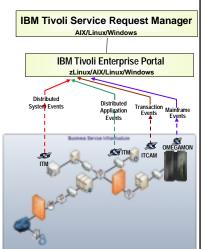






Tivoli Enterprise Portal (TEP)

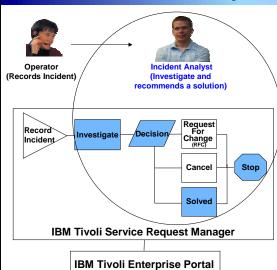
- Service status/health from various event sources, including:
 - Mainframe events from OMEGAMON, NetView, System Automation for z/OS, Workload Scheduler for z/OS
 - Distributed system and application events from Tivoli Monitoring
 - Transaction events from Tivoli Composite Application Manager
 - Events from 3rd party monitors
- Detect incidents with situations
 - Out-of-the-box supplied situations include combination of metrics and thresholds to trigger, identify, notify and solve problems
 - Built-in situation editor allows to customize
- Expert advice helps obtain detailed explanation of problems and recommendation for resolution
- Take action to automatically resolve recurring problems by running existing or customized scripts



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DEMO: Incident Analyst



Investigate

- Incident analyst will select an incident template
- Incident template recommends activities:
 - Investigate by using IBM Tivoli Enterprise Portal
 - Verify diagnosis that CICS application is not responding
 - 3. Search for recommended solution in knowledge base

Decision

Decide on the next step

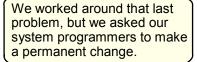
Solved

Mark problem as solved

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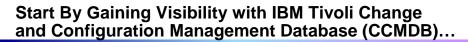
IBM Tivoli Change and
Configuration Management
Database (CCMDB) can help you
manage your change process...
Let me show you!



IBM

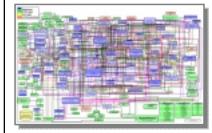
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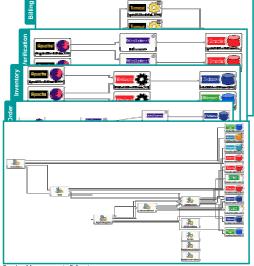


Discover and Visualize Cross-tier Transactional Dependencies and Applications

Turn this...

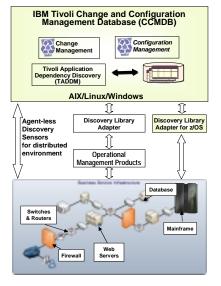


... into clearly understood dependencies



IBM Tivoli CCMDB – Application Dependency Discovery, Change and Configuration Management

- Configuration management database
 - Discover assets in environment
 - 200 out-of-the-box sensors discover distributed data center components
 - Discovery library adapter for z/OS discovers z/OS elements. CICS. DB2, IMS, MQ, WebSphere
 - Discovery adapters for various other data sources
 - Gives single master view from disparate configuration data sources
 - Automated dependency mapping
- Integrated configuration and change management processes



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IBM Tivoli CCMDB Discovery Capabilities

- Web Servers
 - Apache
 - iPlanet/SunOne

 - IBM HTTP Server
- Application Servers
- WebSphere (server, cell, node, endpoint, config file, application descriptor)*
- WebLogic
- **JBoss**
- Apache Tomcat
- Lotus Domino
- Oracle Application Server
- CICS (region, transaction, program, file)*
- Databases
- Oracle
- Svbase
- DB2 (subsystem, data sharing group, database, tablespace)
- MS SQL
- PostGres SQL
- MySQL
- transaction, program, database)*
- IMS (subsystem, sysplex group,

- Applications
 - VMWare ESX Server
 - PeopleSoft (via custom server templates)
 - SAP
 - Siebel (via custom server templates)
 - Netegrity (via custom server templates)
 - MQ Series (subsystem, sender/receiver channel)*
- Universal Data Sensor for 3rd Party Applications
- CiscoWorks
- MS Active Directory
- SunOne Directory Server
- WFS (Samba)
- Supported Hosts/OS
 - Red Hat Linux, Suse Linux
 - AIX, HP-UX, Solaris
 - Windows
 - z/OS (address space, LPAR, z/VM, sysplex, storage)*

- Routers and Switches
 - Cisco Routers and Switches Extreme Switches Summit
 - HP Procurve Switches (SNMP supported)
- Firewalls and Load Balancers
- Cisco PIX
- Netscreen Firewall
- Checkpoint Firewall (Nokia and Solaris installs)
- Alteon Load Balancer
- F5 Big IP Load Balancer
- F5 DNS Server
- Emulex HBAs
- Brocade Switches (SNMP supported)
- Disk Arrays, SAN switches (via TPC)
- IBM Operational Management Products
 - IBM Tivoli OMEGAMON XE*
 - IBM Tivoli NetView*
 - IBM Tivoli Business Service Manager¹
 - IBM Tivoli Composite Application Manager (CAM)*
 - IBM Tivoli Provisioning Manager

*Discovery on System z

Manage Change With IBM Tivoli CCMDB

- Associate change window with configuration items (managed assets)
 - ▶ Check for schedule conflicts
 - Prevent changes from occurring outside defined window
- Identify the impact of implementing a change
 - Identify and record impacted configuration items using the discovered relationship data
 - Subject Matter Experts can document assessment results
 - Get Approvals from all stakeholders of impacted configuration items before implementing the change
- Out of the box best practices customizable change management process



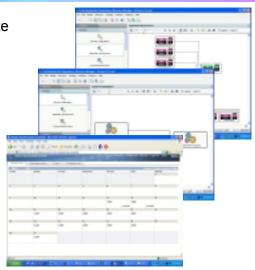


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DEMO: Check for Schedule Conflicts

- 1. Initially schedule the update
- CCMDB discovers relationships and dependencies
- CCMDB cross compares defined maintenance windows
- CCMDB indicates scheduled change has a conflict
- 5. Reschedule the update



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