

**IBM Software Group** 

# Achieving Service Excellence through IBM Service Management











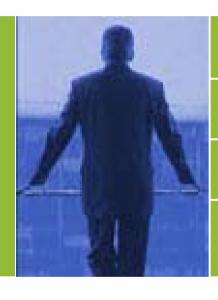
### Agenda

- IBM Service Management Overview
- Service Management Platform Overview
  - Change and Configuration Management Database
  - Configuration Discovery and Tracking
  - Service Desk
- Process Automation
  - Service Support Overview
  - Service Request, Incident, Problem, Change, Release, Configuration
- Business Service Management
  - A Strategic Partnership Business and IT
- Where to Get Started





### Why We're Here Today



The "what"

... "why"

... and "how"

of IBM Service Management





### What CEOs Know

Innovation is the surest path to growth

80% rated technology and business integration of great importance

There is a gap between business and IT innovation



Source: IBM Global CEO Study 2006





### A Strategic Partnership – Business and IT



#### **Business innovation:**

- Gain competitive advantage through service excellence
- Improve operational efficiency and effectiveness
- Drive profitable business growth

#### IT innovation:

- Align with business objectives
- Improve responsiveness
- Govern effectively and efficiently

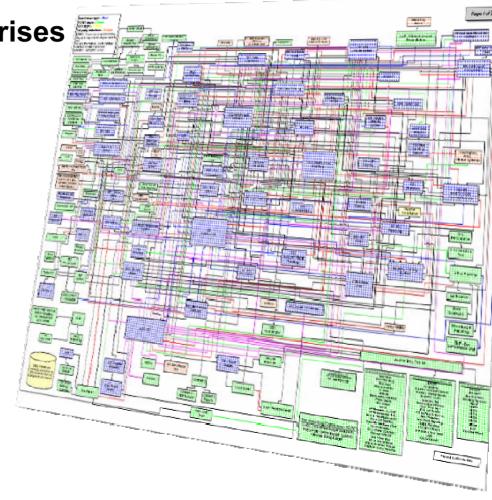




### The Gap - Delivering High-Quality, Cost-Effective Services to Speed Innovation is Challenging

 Challenge: Complex enterprises and constant change

- IT must balance and shift investments
  - Dependability
  - Innovation
- A service-centric approach ensures success of both







### The Business Cost of Poor Service Can be Staggering



FRONT PAGE - COMPANIES AND MARKETS: Software bug hits electronic trade at LME

By Kevin Morrison, Commodities Correspondent Financial Times, Nov 07, 2006

Bandwidth squeeze imperils Navy's C4

BY Bob Brewin Published on Dec. 4, 2006



Glitch Locks Ameritrade Users Out of Their **Trading Accounts** 

JUNE 23, 2006

denverpost.com

**CHAOS: Voting Extension Denied Amid Massive Computer Problems in Colorado** 

By George Merritt and Jeffrey Leib, Denver Post Staff Writers November 07, 2006



BY GASTON F. CERON

Air-traffic system outage grounds flights Planes nearly came too close together; glitch causes Miami delays

Associated Press

Updated: 3:30 p.m. ET Dec 5, 2006





Tokyo Stock Exchange president quits over computer bungles

Finextra.com: December 20, 2005





### **Bottom Line – Business Depends** on Quality Service Delivery

- Quality service delivery is critical for
  - Competitive advantage
  - Customer retention and satisfaction
  - Meeting regulatory compliance
  - Organizational efficiency
  - Cost reduction (especially labor)
  - Service Level Agreements (SLAs)

"Two out of every three CEOs expect fundamental changes for their organizations over the next two years." "... they see opportunity – opportunity to be seized through innovation."

Source: IBM Global CEO Study 2006



"As enterprises become more aware of the increasing interdependence of business and IT issues - they need to adopt a more holistic view of both internal and external service delivery. This is vital for business leaders in targeting and executing business change."

> Thomas Mendel Forrester

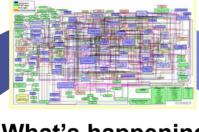




### What is IBM Service Management?

IBM Service Management delivers the ability to answer three





What's happening within the infrastructure?



What actions do we take?



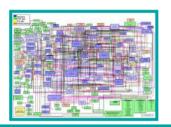
How do changes relate to the business service?





### IBM Service Management's Broad Capabilities

#### What's happening within How do changes relate the infrastructure?



- Server monitoring
- **Network monitoring**
- **Database** monitoring
- **Application** monitoring
- **Performance** monitoring
- Configuration management

### to the business service?



- **Dashboard**
- **Business service** management
- Service level management
- Infrastructure and application discovery and mapping

#### What actions do we take?



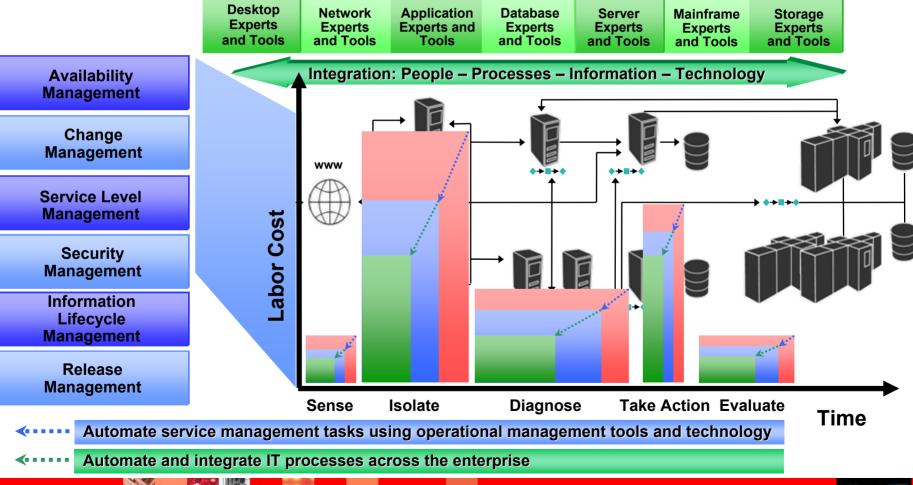
- **System** reconfiguration
- Data restore
- **User identity** provisioning
- System and application restart
- Infrastructure deployment





## Challenge – Manage Cost and Responsiveness Across IT Silos

Many businesses struggle to manage composite applications end-to-end





### Service Management is the Optimal Intersection of People, Process, Information and Technology

Effective and efficient delivery of IT services in support of business goals.

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

#### Technology<sup>•</sup> People Standards based APIs Defined roles based on IT **Technology** interface to applications **Service Management processes** Automated tasks down Identify bottlenecks as to the execution laver processes execute Monitor and dynamically adjust actual work **IBM Service Information People** Management **Proc**esses **Information** Mandards based process Both consolidated and rederated models to protect investment data integration **End-to-end monitoring Process** Data model designed for provides aggregated view of exploitation business services Shared across management tools Customizable to fit into customer organization



## IBM Facilitates Service Excellence, Operational Efficiency & Effectiveness, and Business Growth



- Scalable approach integrating technology, people, information and processes
- Broadest and deepest domain-specific operational management
- Integrated data and contextual visualization
- Automated workflows, processes and repeatable tasks
- Flexible management platform built on SOA
- Based on self-managing autonomic technologies





### Best-of-Breed Operational Management

#### **IBM Service Management**



"The biggest reason we selected IBM for this project was because of their operational know-how and broad IT management portfolio. With the implementation of this architecture, NHIC Ilsan Hospital will continue to strive for efficient management of IT infrastructure to support advanced medical digitalization."

- Sung Jik Jung, Medical Information Team Leader for NHIC Ilsan Hospital

## Integrated scalable, contextual domain management

#### **Broadest technology support**

- Security to storage
- SOA to legacy applications
- Virtualization to composite applications
- Layer 1...7 management support

#### **Deepest management capabilities**

- Network and event management
- Availability and performance management
- Storage and security management
- Enterprise and IT asset management

Role-based visualization and control

**Open, standards-based products and tools** 





### Integrated Service Management Platform

#### **IBM Service Management**



"With their new Service
Management strategy, IBM is now
really focused on the big picture –
not only delivering tools, but an
integrated combination of tools,
sharing data through a central
database and supporting ITIL
processes."

- Alex Nettelenbusch, Release Management Commerzbank AG Integrated visibility and control across people, process, technology and information domains

#### Service visualization

- Role-based contextual views
- Customizable Web-based visualization

#### **Data integration and federation**

- Open and standards based, built on SOA
- Trusted source of information
- Decision making and policy-based

#### **Automation**

- Enforce policies for improved compliance
- Automated discovery and impact analysis across all infrastructure layers
- Built-in self-managing autonomic technologies





### Integrated Process Management

#### **IBM Service Management**



"At Belgacom, it is our goal to become the best-in-class next generation service provider through operational efficiency... by ensuring service-level management, helping to optimize resources and streamline our processes for greater end-user satisfaction."

- Yves Vlamijnck, Team Manager, Network and IT Monitoring, Belgacom

### Enable increased team performance, coordination and collaboration

#### **Automated workflows and process management**

- Consistent process execution
- Based on robust process best practices
- Integration of IBM and 3<sup>rd</sup> party operational management tools into and across IT and business processes
- Enforce and audit change and compliance





### An Innovative Approach to Implement Best Practices

#### **IBM Service Management**



"Toshiba Solutions Corporation offers a wide range of services – from consultation, design, and development to implementation, support and maintenance services. By leveraging the IBM Tivoli Unified Process and teaming with IBM on Service Management we are able to offer unparalleled value to our common customers."

- Akira Bannai, Chief Fellow of Toshiba Solutions Modular approach for incremental execution and value realization

**IBM Global Services** 

Proven process models, standards and best practices

- Standards-based build to manage toolkits
- Process Model for IT (PRM-IT)
- IBM Tivoli Unified Process
- IBM Service Management Adoption Model
- Support implementation of ITIL, eTOM, CobiT, ISO 20000 and other process models

**IBM Service Management Partner Ecosystem** 

**Open Process Automation Library (OPAL)** 





### Key Acquisitions speed Customer Value

**IBM Service Management** 







**Network Management** 



**Network Performance and Wireless** 

#### **Service Deployment**



**Automated Provisioning** 



Service Delivery and Support



**Change and Configuration** Management

#### **Service Asset Management**



**Software Asset** Management



IT Asset Management and **Enterprise Asset Management** 

#### **Governance and Security**



**Software Usage** Metering



Log Management and **Asset Monitoring** 



**Internet Security** 





### Agenda

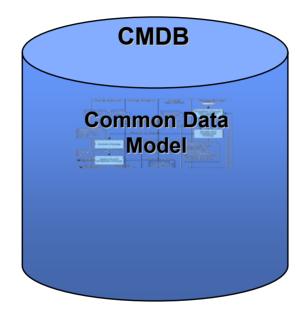
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### CMDB - Foundation for Service Management

The CMDB provides the source about Configuration Item information and the relationship between them



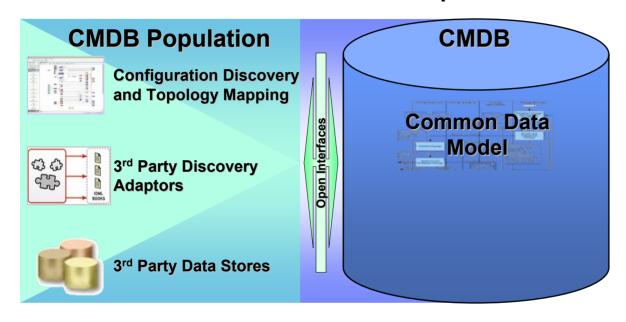
- The CMDB provides the trusted source of information
- The Common Data Model is built on open standards and best practices (ITIL)
- The CMDB is a scalable platform for the implementation of Service Management initiatives
- The CMDB is accessible through an application programming interface (API) and GUI reporting





### CMDB - Population through Discovery

Automated discovery and mapping technology populates attribute information and interrelationships between Configuration Items



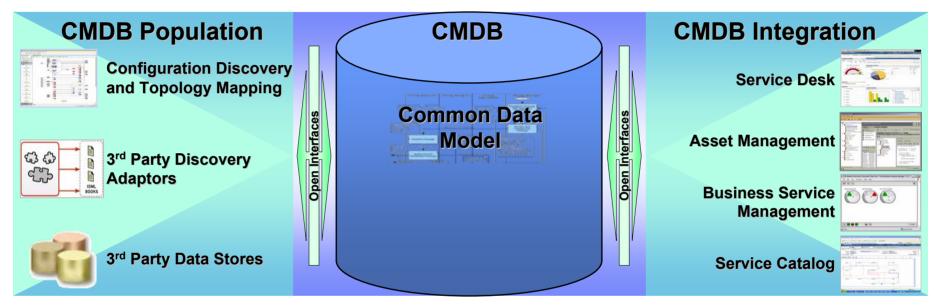
- Methods to identify Configuration Items, their attributes and application dependencies:
  - · Automated agent-less discovery
  - · Existing data repositories and tools
  - Manual entry
- Topology mapping illustrates relationships between Configuration Items and supports the linkage to specific business services





### CMDB - Integration Point to Provide Services

The CMDB is the integration point for the applications which use the information to provide Service Management processes



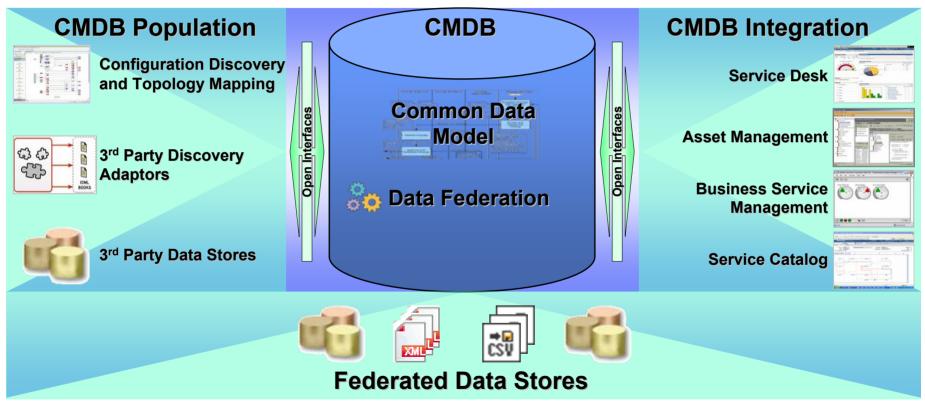
- The Service Desk delivers critical support by keeping key business systems and services available and reliable
- Asset management includes all the control and automation needed to seamlessly and efficiently track and manage asset configuration information
- Business Service Management provides management of applications as a service
- The Service Catalog is an essential element for defining services and communicating with the business





### CMDB - Data Federation

Federated data stores contain information which need to be tracked or referenced but which is not part of the core Configuration Item



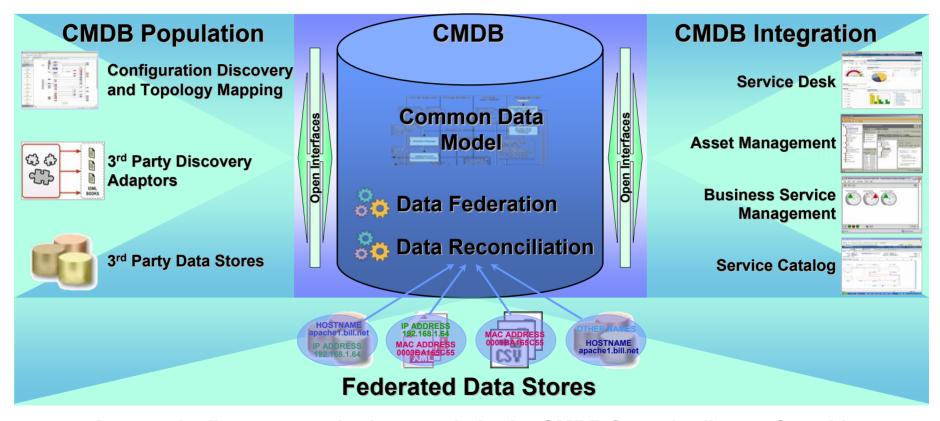
- Access source of record for attributes which are not contained in the CMDB
- Federation brings multiple data sources into a coalesced view
- Report generation with information from CMDB and other data sources





### CMDB - Data Reconciliation

Data reconciliation is the ability to filter, prioritize and normalize identical Configuration Items from multiple sources



- Automatically ensures single records in the CMDB from duplicates found in multiple sources by comparing matching fields from each data store
- Maintains source integrity of each Configuration Item instance in the CMDB





### IBM's CCMDB is More Than a Data Store

#### **Data Integration**

- Integrates and shares data across complex organizational silos
- Proactively manages data currency and accuracy
- The CMDB is the true, authoritative source of record

#### **Workflow Integration**

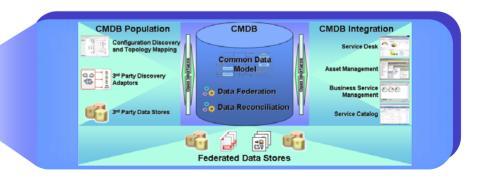
- Is coupled with an automated change management process to ensure integrity and consistency of configuration items
- Increases coordination and data sharing

#### **Policy Integration**

• Enforces policies to ensure compliance with internal and regulatory requirements

#### **IBM Service Management**



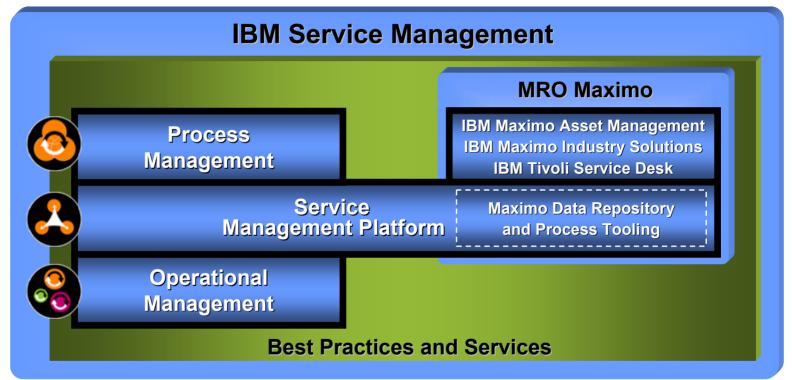






### IBM and MRO Maximo - Leveraging Synergies

The integration of MRO Maximo with IBM Tivoli provides solutions to solve enterprise-wide Service Management challenges beyond IT



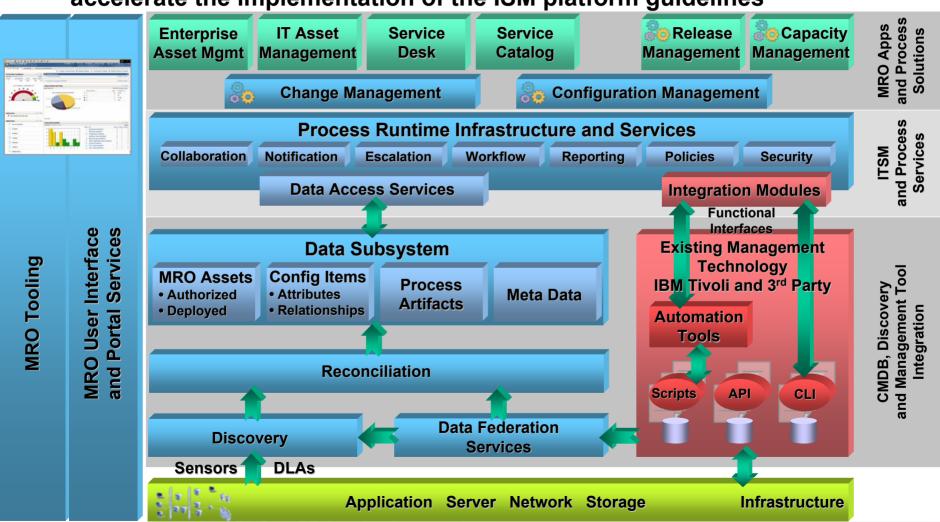
- No impact to existing enterprise asset management applications
- Richer converged data model to include IT assets and relationships
- Integration with other data sources for expanded enterprise and IT consolidation
- Converged process layer providing improved process automation and collaboration





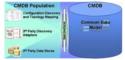
### IBM Service Management Architecture

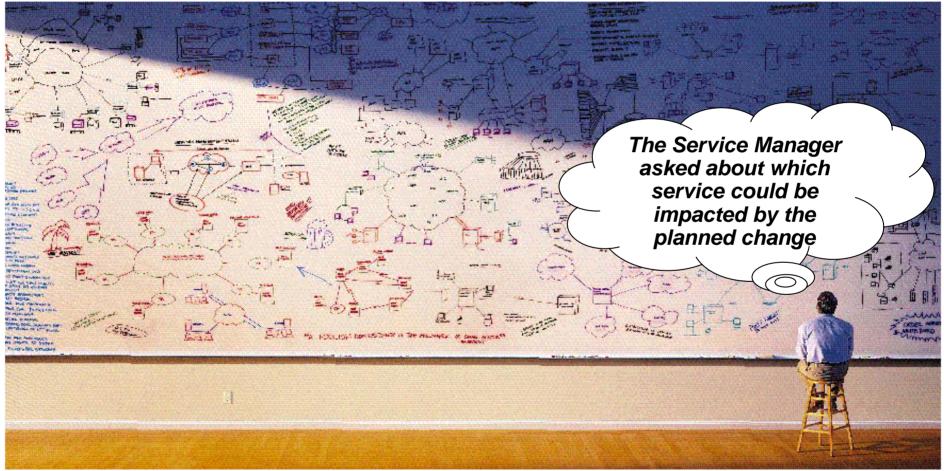
The acquisition of MRO provides a significant opportunity to further accelerate the implementation of the ISM platform guidelines





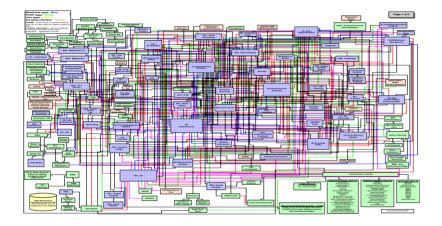
### The Application Dependency Challenge







## Visibility through Discovery and Application Mapping

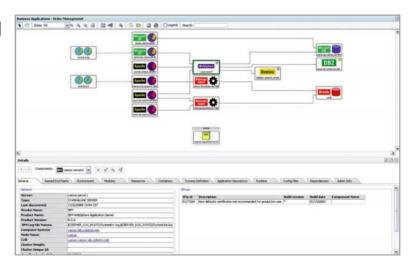


#### **Traditional View of Infrastructure Topology**

- What does the service configuration look like does the topology reflect the current state?
- By changing this server, what other devices are impacted?
- What database might be involved and what other application could be affected?

#### **Automated Discovery & Application Mapping**

- Enables organizations to visualize dependencies between applications, and within the IT infrastructure
- Understand how any changes in the IT infrastructure can affect associated business processes
- Achieve regulatory compliance, ability to audit plus improved control of IT infrastructure







### Relationship Mapping and Configuration

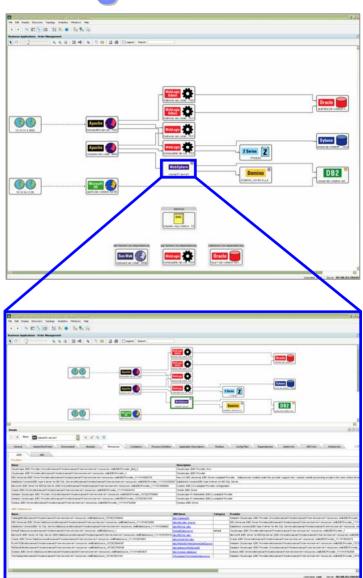
Information

#### See the Big Picture

- Broadest and most extensible coverage
- Deepest cross-tier, run-time detail
- Only fully automated application discovery

#### **Rapid Time to Value**

- Fast, low cost implementation
- Agent-free auto-discovery





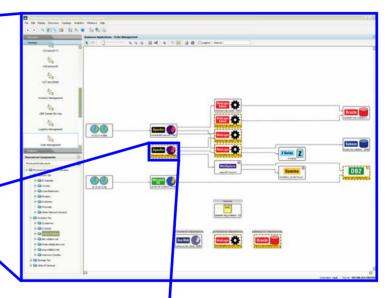


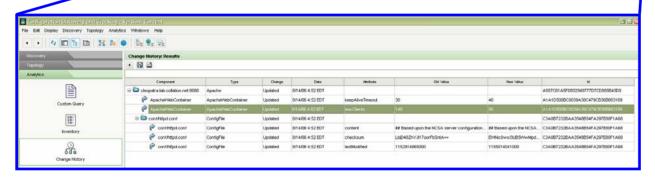
### Identify Changes to Assist Problem Resolution



**Step 1 – Select change history window** to identify changed components

**Step 2 – Changed Configuration** Items are automatically identified

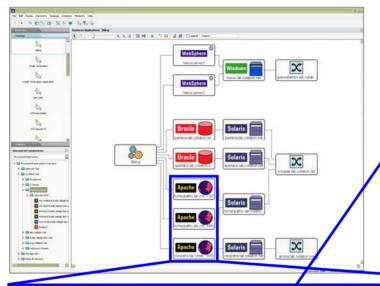




**Step 3 – View detailed** history of the changes by attribute

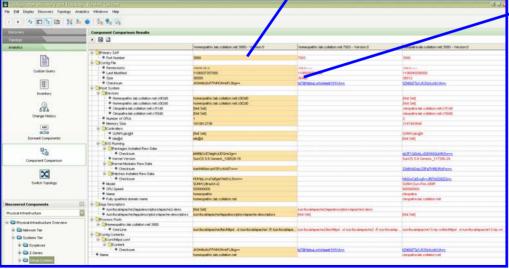


### Audit Configuration Items via Comparison



Select identical component types to run a comparison report

Enables easy comparison of like CIs to a 'master' copy



Dissimilar attribute values are highlighted

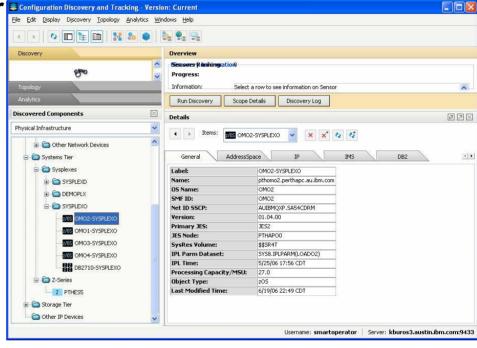




### System z Resources

• z/OS Discovery Library Adapter Configuration Discovery and Tracking - Version: Current Ele Edit Display Discovery Topology Analytics Windows Belgin Includes System z resources

- LPAR
- z/OS
- IMS
- DB2
- CICS
- MQ
- WebSphere
- Discovery IP networking resources from NetView z/OS
- Info/Man incidents affecting computer systems
- Context sensitive launch to OMEGAMON XE
- Tivoli Business System Manager integration for Line of Business objects to leverage investment in existing technology





### **Evolution of the Service Management Market**

#### Transition from Service Desk to Service Request Center is about:

- Automating service request submission and fulfillment via Service Catalog
- Increasing availability of self-help and knowledge management
- Providing management tools to ensure requests are rapidly resolved at the lowest possible cost

Service **Request Center** 

Service Desk



#### Transition from Help Desk to Service Desk was about:

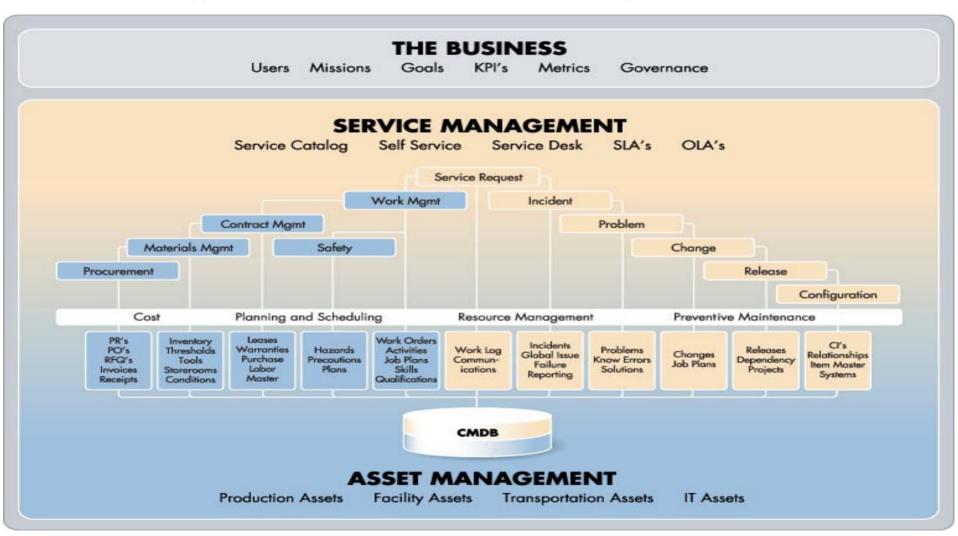
- Aligning with process frameworks (e.g. ITIL) to optimize service and support
- Extending beyond trouble ticket tracking to problem resolution. documentation and various forms of request handling
- Improving communication with customers to keep them informed about status, confirmation of resolution, etc.





### Service Management – Solution Capabilities

Technology components – ITIL and asset management best practices







### Service Management – Automate ITIL Best Practices

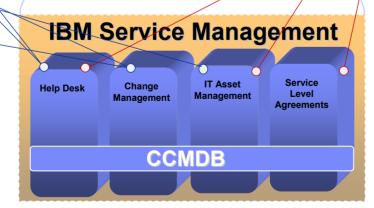


- Service Desk
- Incident Management
- Problem Management
- Change Management
- Configuration Management
- Release Management





- Financial Management
- **Availability Management**
- Service Level Management





## IBM Tivoli Service Desk - Key Features and Benefits

Incident and Problem Management	Powerful visual workflow and escalation enable quick resolution
Self Service	Allows users to proactively address their own issues reducing calls
Solutions	Built-in, searchable solutions database enables agents to resolve issues faster, improving first call resolution rates
Role-based KPIs	Support staff, managers or executive can monitor role-based KPIs in an easy to configure, intuitive graphical display
Interactive action-based Workflows	Guide users through a process or activity based on the context of data entered, reducing training requirements, promoting ease of use and greater accuracy of information
Escalation Management	Ensures proper management of resources to achieve service levels – proactively monitor conditions and send notifications from prompt action
Configuration Tools	Flexible configuration tools for database configuration and applications design enabling users to easily and quickly configure the UI, dashboards, KPIs, reports and more on the fly





## IBM Tivoli Service Desk - Key Features and Benefits

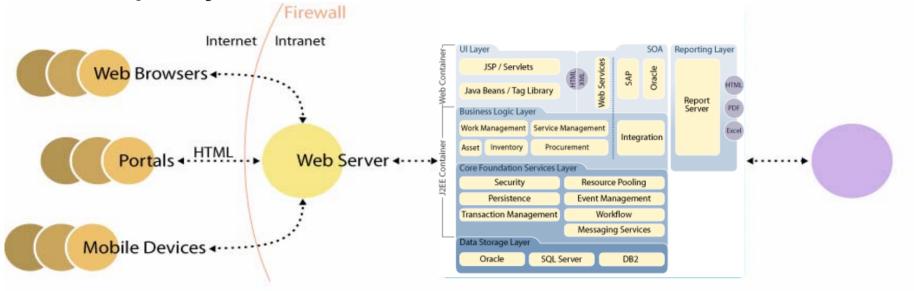
Work Management	Work Management to deploy the right personnel with the right skills at the right time
Dashboards	Real-time dashboards provide actionable information and identify potential problem areas, enabling support to take appropriate corrective actions before critical services are adversely affected
E-mail Listener	Efficiently processes inbound e-mails into service requests streamlining service desk operations and increasing user satisfaction
Ticket Templates	Saves time by pre-populating work order fields with information found in the service request
Bulletin Board	Provides real-time message display





# Technology Advantage

- Standards-based architecture
- Completely Web-based



Clients Application Server Database Server

- Built on standards
  - SOA and Web services
  - J2EE
  - HTML
  - XML

- Enterprise level security and authentication
  - Single Sign On and LDAP
  - HTTPS (SSL)
  - DESede
- Zero code (stored permanently) on the client



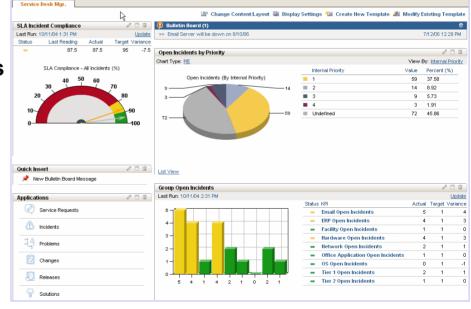


# IBM Tivoli Service Desk – Value Proposition

The IBM Tivoli Service Desk provides critical support to the entire organization by keeping key business systems and services available and reliable

### The IBM Tivoli Service Desk enables organizations to:

- Create service efficiencies
- **Reduce disruptions**
- Streamline service desk operations
- Improve customer satisfaction
- Reduce costs by unifying key service support and asset management processes
- Deliver easily accessible business reporting and real-time Key **Performance Indicators (KPIs)**







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### **Process Automation**

- Automated IT management processes deliver rapid responsiveness and greater flexibility
- Based on experience applying ITIL®, eTOM, CobiT, ISO 20000 and **CMMI** in customer environments
- Integrated with Tivoli and non-Tivoli management products



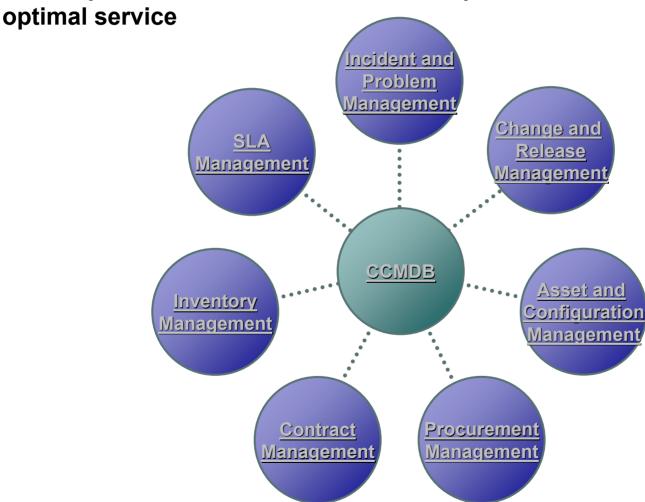
- Customization tools allow customers to:
  - Customize the processes
  - Integrate additional products into the processes including in-house and third party applications





# **Process Automation – Value Proposition**

Process automation enables IT organizations to manage, on a single unified platform, the critical IT business processes needed to deliver











## Incident and Problem Management

- Self Service
  - Access to solutions for quick identification of possible resolution



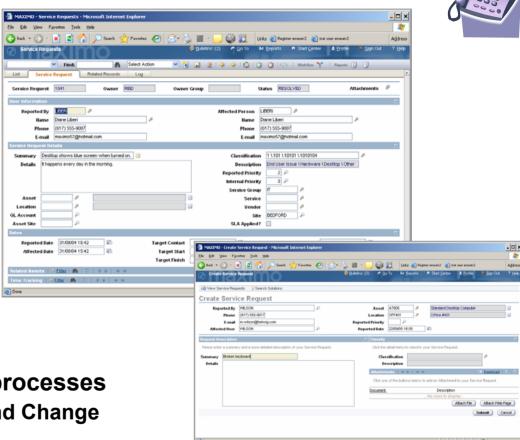
- Service Request
  - Call tracking/customer interface pre-cursor to work
  - Goal: Capture info and determine if/what next step
- Incident
  - Deviation from expected standard operation of a service
  - Goal: Restore service to customer ASAP
- Problem
  - Unknown underlying cause of one or more incidents
  - Goal: Root-cause analysis to resolve problem and prevent future occurrence of other incidents
- Access to IT asset details/processes (user/location information, IMAC, contracts, procurement), and work order management (skills, labor, tools, materials)





# Service Request

- Request a service
- Self Service capabilities
- Search for knowledge/ solutions/FAQs
- Status updates of request
- E-mail integration



- Interaction with other ITIL processes
  - Interaction with Incident and Change Management
  - SLA interaction



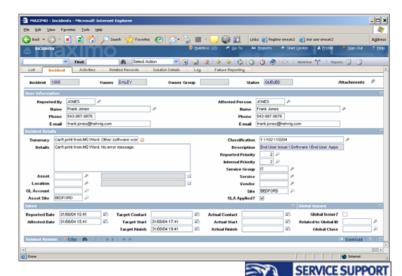






### Incident Management

- Incident logging and detection
- Classification and initiating activity
- Investigation and diagnosis
- Business service and criticality identification
- Resolution and logging of work rounds
- Knowledge/solution/FAQ creation and maintenance
- Quick recovery



- Interaction with other ITIL processes
  - Interaction with Problem and Change Management
  - SLA interaction
  - Visibility of CI data, including authorized, deployed/discovered and reconciliation results



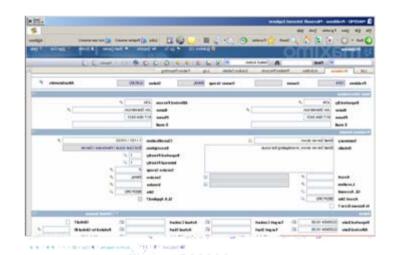






# Problem Management

- Problem and error control
- Root cause analysis
- Work round identification
- Identify transition solution
- Creation and maintenance of a Known Error database
- Implementation of remedial action to prevent issues from reoccurring
- Trend analysis
- Proactive problem management activities





- Interaction with other ITIL processes
  - Interaction with Change and Release Management
  - SLA interaction
  - Visibility of Cl data, including authorized, deployed/discovered and reconciliation results







# Change and Release Management

### Change

- An action that results in a new status for one or more **Configuration Items**
- Goal: Standardize change process and minimize change-related incidents

#### Release

- A singular or collection of authorized changes
- Goal: Design and implement efficient procedures for the distribution and installation of changes
- Manages the entire process
  - Request → Approval → Execution
- Controls and documents CMDB
  - Release procedures
  - Release design
  - Build process
- Access to IT asset details/processes (user/location information, IMAC, contracts, procurement), and work order management (skills, labor, tools, materials)

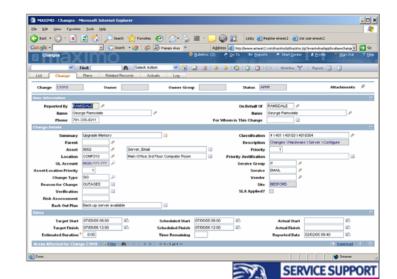




# Change Management



- Identification, assessment and authorization
- Identify and classify RFCs
- Planning and scheduling
- Implementation and review
- Emergency RFC
- Process that includes approval stage(s) to execute planned alterations to the technology infrastructure in line with supporting business goals



- Interaction with other ITIL processes
  - Interaction with Incident Management
  - SLA interaction
  - Visibility of CI data, including authorized, deployed/discovered and reconciliation results







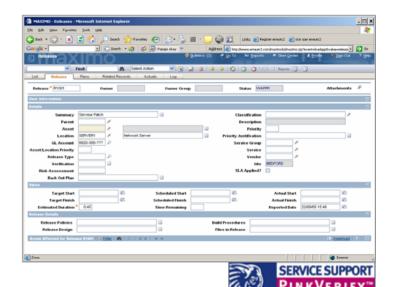


## Release Management



- Identify and classify releases
- Planning and scheduling
- Rollout planning
- Distribution interaction
- Manage and control the release cycle through workflow

- Interaction with other ITIL processes
  - Hierarchical association between changes and releases
  - Associate Incidents
  - SLA interaction
  - Visibility of CI data, including authorized, deployed/discovered and reconciliation results







# Asset and Configuration Management

- Unified with all ITIL processes
- Full life-cycle management support:
  - Moves
  - Reconfigurations
  - Re-assignments
- Unified deployed assets (auto-discovery)
- Reconciliation engine supports software management and hardware standardization compliance







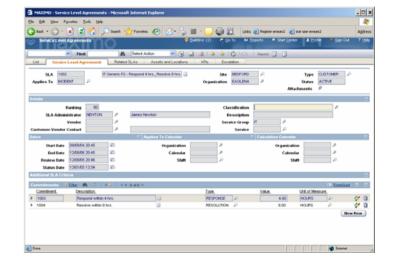


# **Configuration Management**



- Control and planning
- Verification and auditing
- Maintenance and status
- Cost control
- License management
- Use and service support

- Interaction with other ITIL processes
  - All processes are tied into Configuration Management











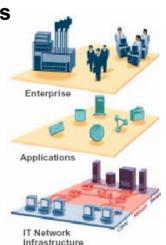
# **Definition Of Corporate Assets**



- IT asset management is the cohesive merging of the physical, financial and contractual attributes of IT assets to
  - Manage assets cost-effectively
  - Minimize liability and risk associated with the assets
  - Facilitate effective planning and budgeting

#### **PHYSICAL**

Hardware information Software information Location, user, cost center







#### **FINANCIAL**

**Purchase price** Vendor

**Depreciation and tax information** 

#### CONTRACTUAL

Lease terms **Warranty information** Software license terms











# Asset Management



### Discovery

- Automated collection of hardware and software data
- Discovery of network devices
- Tracking physical locations
- Identify software usage
- Multi-platform support

#### Fusion

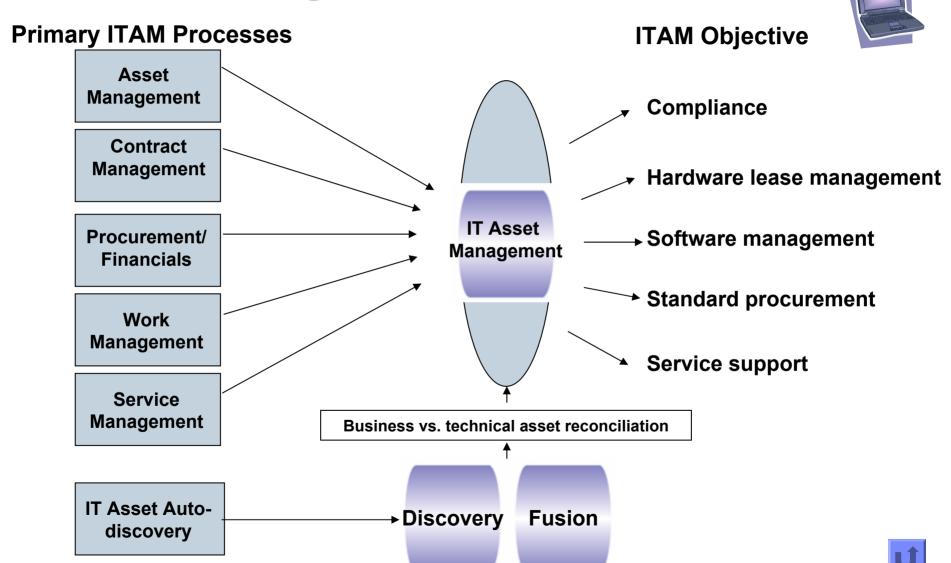
- Mapping IT asset data from auto-discovery solutions to CMDB
- Deployed asset
  - Track assets, locations, cost centers, users
  - Manage IMACD process
  - Reconcile discovered vs. authorized IT asset data







# IT Asset Management







### Procurement Management

- End-user self service applications
- Primary functions include
  - Request for Quotations (RFQ's)
  - Purchase requests
  - Purchase orders
  - Asset receiving and registration
  - Purchase catalogs
  - Invoices
  - Terms and conditions templates
- Supports e-business transactions (with optional e-commerce adaptor)









### Contract Management

- Primary functions include
  - Master contracts
  - Purchase agreements
  - Lease and rental agreements
  - Software contracts
  - Warranty contracts
  - Labor contracts
  - Payment schedules
  - Terms and conditions templates
- Unified with IT service management and IT asset management life-cycle functionality









## Inventory Management

- Primary functions include
  - Item masters
  - Service items
  - Stocked tools
  - Issues and transfers
  - Stockrooms
  - Inventory levels of assets and items
- Support asset receiving (from procurement)
- Support items and assets cost distributions (for financial management)
- Support asset replenish processes









# SLA Management

- Support of managed Service Catalogs
  - Provided service
  - Assets targeted and/or impacted by the service
- Service Level Agreements (SLAs)
  - Commitments that are in place with the customer (internal or external)
  - Monitored processes and services
  - Associated preventive countermeasure escalations
  - Performance related to SLA compliance
- SLAs can be applied to any record in IT service management
- Unified with all service processes and IT asset management
- Leverages escalation, notification and workflow engines
- Proactive monitoring of business commitments via KPI's









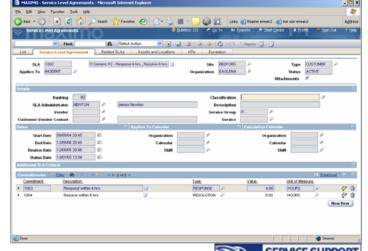
# Service Level Management



SLA application is used to encapsulate the business goals as they apply to the IT infrastructure, to ensure that critical business services are maintained and improved over

the duration of these agreements.

- SLA must be:
  - Reasonable
  - Appropriate
  - Measurable
  - Achievable
  - Incremental









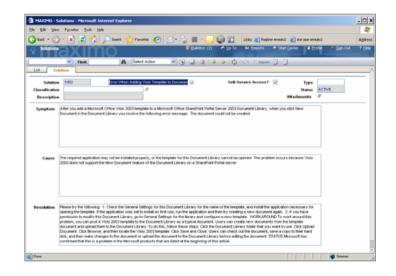




## Knowledge Base



- Identification, assessment and authorization
- Classify solutions
  - FAQ
  - Known error
  - Work round
  - Solution
  - Knowledge
- Maintenance of knowledge through the use of workflows



- Interaction with other ITIL processes
  - All processes are tied into the knowledge base





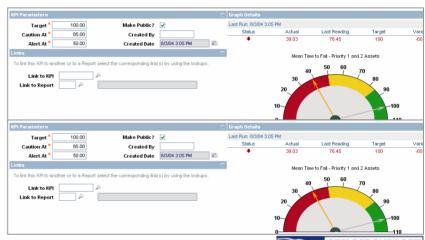




# **Availability Management**



- No specific availability application (out of the box)
- Meters used to record specific availability measures such as downtime
- KPIs used to calculate service level availability metrics
- Escalations and workflow used to monitor and proactively notify











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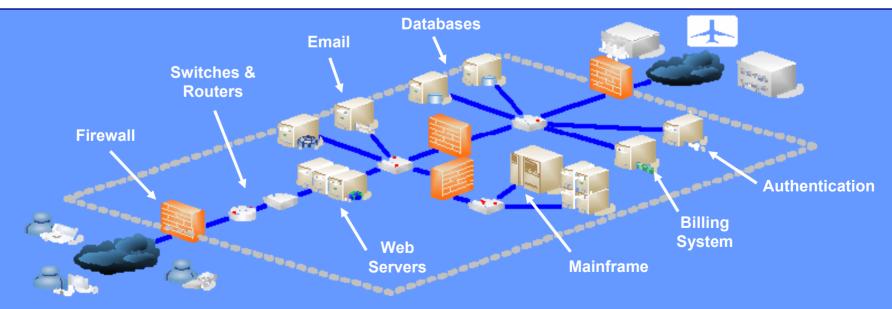
### **Definition of Business Service**

### Traditional Understanding

- A customer, partner or user facing any business application
  - Examples: SAP, Siebel, Oracle, Microsoft Exchange

#### **Business Service Definition**

- A business service is any customer, partner or user facing a group of application, middleware, security, storage, network and other supporting infrastructure building and enabling a comprehensive, end-to-end business process, transaction or exchange of information
  - Examples: Online banking, e-commerce, credit card processing







# Service Visibility - A Must

Business service management is vital to both, business users and IT operations staff



- Manage day-to-day business performance
- Gain insight into the operational health of services
- Track ongoing customer experience
- Make strategic business decisions and investments



- Assure high service availability and performance
- Reduce costs and improve operational efficiency
- Deliver against line of business requirements
- Make long-term IT investment decisions



## **Business Service Management**

Business success is measured against defined quantitative and qualitative metrics



#### **Business performance**

- Profit and loss indicators
- Customer growth/churn indicators
- CapEx and OpEx indicators
- Compliance indicators
- Business process indicators

### **Operational performance**

- CapEx and OpEx indicators
- SLA indicators
- Call volume/response indicators
- Cost of downtime indicators
- Mean-time-to-repair indicators



Challenge: Business and Operational audiences lack the integrated service visibility and intelligence needed to align and deliver against defined objectives





# **Business Service Management**



#### **Gartner on BSM:**

"A category of IT operations software products that link the availability and performance status of the underlying IT infrastructure and application components to business oriented IT services that enable business processes."

- Debra Curtis, Gartner

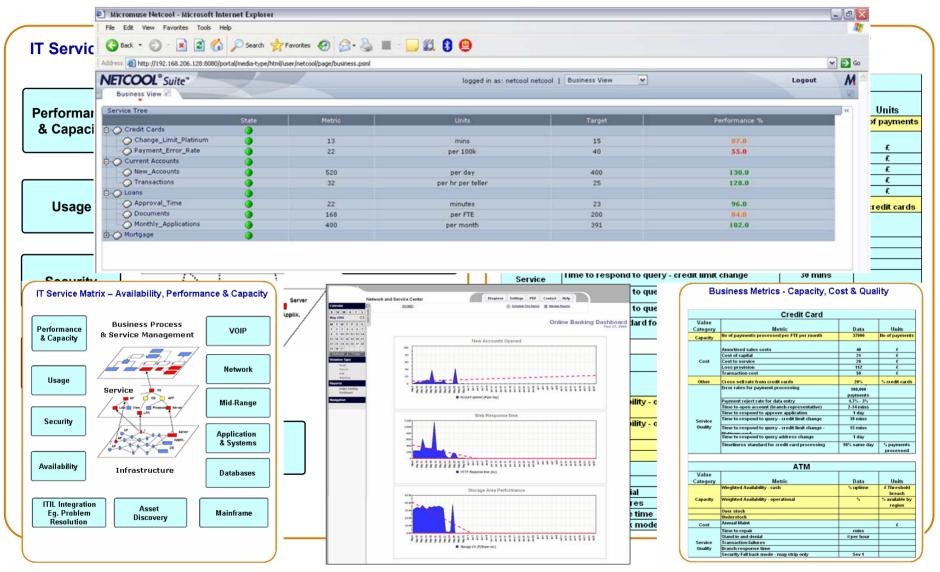
**Objective:** Improve business aligned service quality, through a constant cycle of agreeing, monitoring, reporting and reviewing IT service achievements and through instigating actions to eradicate unacceptable levels of service.







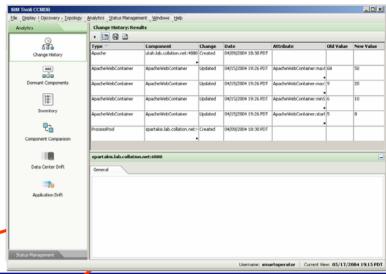
# Align the Metrics to Manage Business Services





### Step 1 – See the Service Dependencies

Identify Configuration Items (CIs) and Asset Information
Identify Application and System Dependencies
Identify Infrastructure Dependencies
Auto-populate and Maintain Service Models
Provide Configuration Details and Feed CCMDB
Provide Change Tracking and Reporting



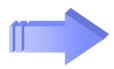




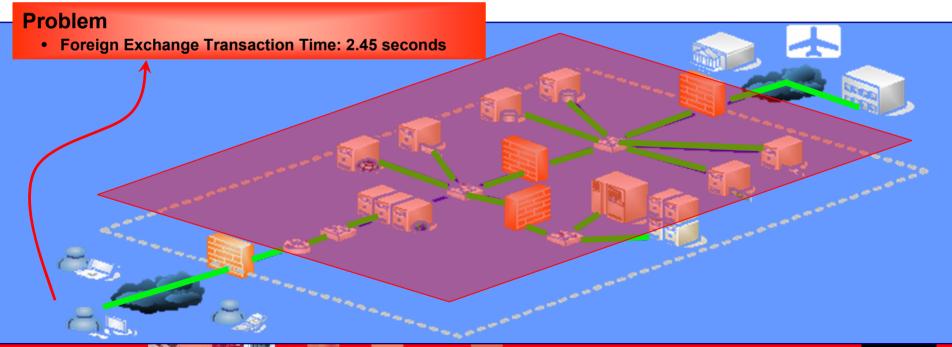
### Step 2 – Understand the End-to-End Customer Experience

### **Transaction monitoring provides**

- Real-time transaction performance
- Real-time service status
- Real-time end-user perspective
- Rapid value via improved visibility



48						
	Trans	Average	Errors	Pending	Revenue	
Equity	1232	.43	15	13	453301	
Fixed Income	67	0.87	0	4	NA	
Commodities	14	0.53	1	0	391256	
Foreign Exchange	203	2.45	0	17	212972	
Prime Brokerage	32	.77	2	0	973041	
Online Trading	869	.41	13		66791	
Sec.Underwriting	45	NA	1	7	NA	







### Step 3 - Monitor the Service Infrastructure Consolidate, integrate and round-out Leverage existing IBM and 3<sup>rd</sup>-party tools Consolidate and feed enriched status events · Availability, performance, integrity Auto-update service model **Network** Mainframe **End-user** Security Server **Database** Web Application **Business Events Events Events Events Events Events Events Events Events**



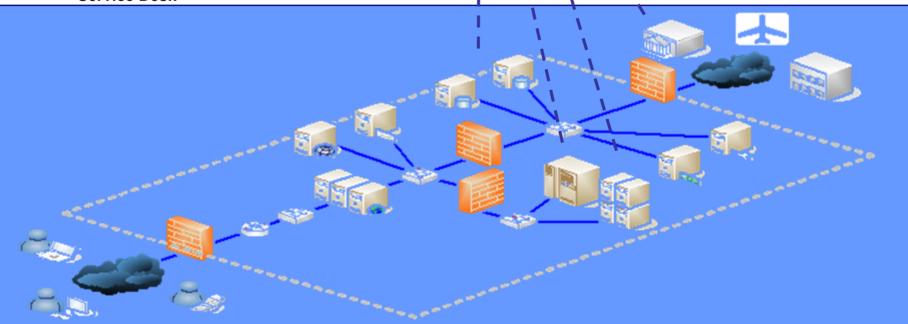
### Step 4 - Track Key Performance Indicators

### Real-time KPI monitoring

- Business activity monitoring
  - ERP SAP, PeopleSoft...
  - CRM Siebel, Sales Logix, Remedy etc.
  - Databases Oracle, Sybase, MS SQL etc.
- Real-time scorecards and dashboards
  - Business transaction/activity KPI/KQIs
- Notification and action automation
- Seek non-traditional sources
  - Operational management products
  - CCMDB
  - Service Desk



	25001						
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### Step 5 - Deliver Targeted Service Intelligence



#### **Targeted Service Views**

- · Line of Business views
- Revenue, transactions, SLAs
- **Customer experience**
- · Service health and compliance



#### **Operational Views**

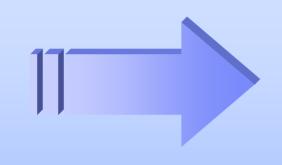
- Service impact analysis and RCA
- Proactive problem identification
- Troubleshooting and auto-recovery
- **Optimize IT and asset performance**





# Customer Example – Trading Floor

- Demanding trading environment
- Enormous scalability and event reduction requirements
- Drastically reduced operating expenses
- Provided smooth upgrade to replace underperforming competitive solution





#### **ROI** benefits include

- Zero downtime last 3 years
- Critical alerts happen, but services are not impacted
- Significant improvement in MTTR and accountability
- US\$ 750,000 / year ROI for one business unit
- Reduced burden on level 2 and level 3 support

#### **TCO** savings include

- Contract reduction
- Cost of man-hours to operate the equipment
- Maintenance hours



## Customer Example – Trading Floor

Metrics collected in real-time from any data source (federated data model)

**Trading Floor Business and Technology KPIs get** 

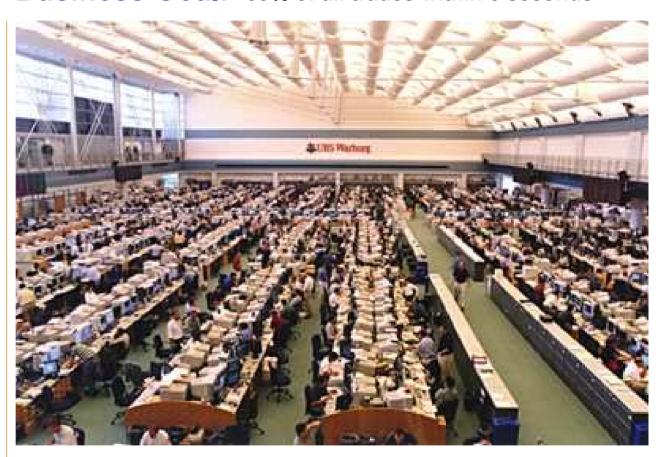
- Collected
- Consolidated
- Analyzed
- Displayed in real-time

Proactive correlation of system events with service owners

Aggregated data metrics for each Business Service are displayed in a single Web view

		Infrastructure State	% Throughput vs. Baseline		Historical Baseline	Total Tickets
□ & EquityTrader			93%	463	432	125
D C London		0	92%	545	505	30
- ET_CancelOrder	0	0	50%	122	61	0
- ET_ChangeOrder		0	113%	125	141	0
ET_ExecuteBuyOrder	<b>A</b>	<b>A</b>	77%	127	98	0
- ET_ExecuteSellOrder		•	122%	69	84	18
ET_GetQuote		•	150%	12	18	
- G ET_Login		•	114%	90	102	0
(h) (h) New York		•	100%	373	374	38
⊕ ⑥ Tokyo		•	0.0%	472	418	57
R ExchangeTrading		0	62%	615	381	107
0-8 OnlineBanking		0	82%	424	349	

Business Goal: "99% of all trades within 5 seconds"



Centralized view of mission-critical applications and infrastructure components across 6 regional data centers – Americas / Europe / Asia





# Customer Example - Trading Floor

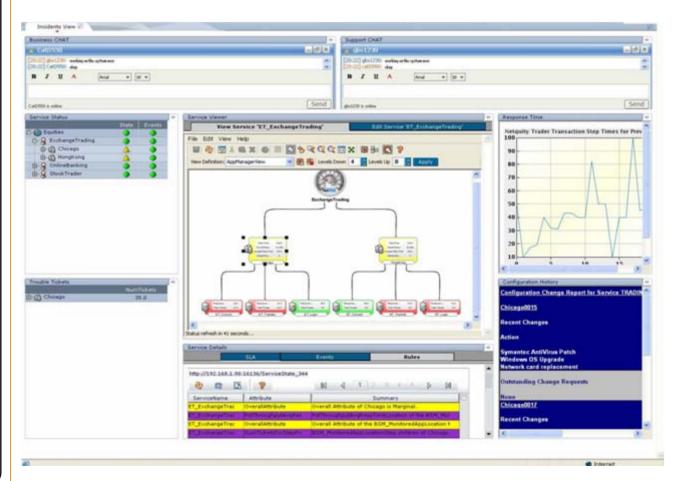
Single view of all relevant application and service information affecting trade times

Drill down from scorecard to display status of service updated from external data in real-time

Click on a service to populate surrounding windows with data from other business systems as required



#### **Dynamic Service Cockpit** Real-time access to external data







### Benefits of Tivoli Business Service Management

#### **Visualize**

• How does the underlying service infrastructure support the provided application or service?



#### **Prioritize**

• Are problems impacting service availability, performance, integrity and delivery against SLAs?



#### Communicate

- How to deliver contextual service intelligence to the operational staff that must manage service performance?
- How to deliver the relevant business metrics to the lines of business that must manage service level agreements?





"IBM (software) allows us to view our IT infrastructure from a business process perspective in real-time, and respond to problems with the correct priority. This helps to ensure that we maintain the service levels that our customers demand."

- Arndt Kollett , Lead Architect, E.ON IS GmbH, Germany





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### IBM Service Management Self-Assessment

The ISM Self-Assessment Tool guides customers through the process of identifying priority areas for improvement

The assessment can provide insight into each of the following service management process attributes

- Capability
- Importance
- **Automation**
- Governance



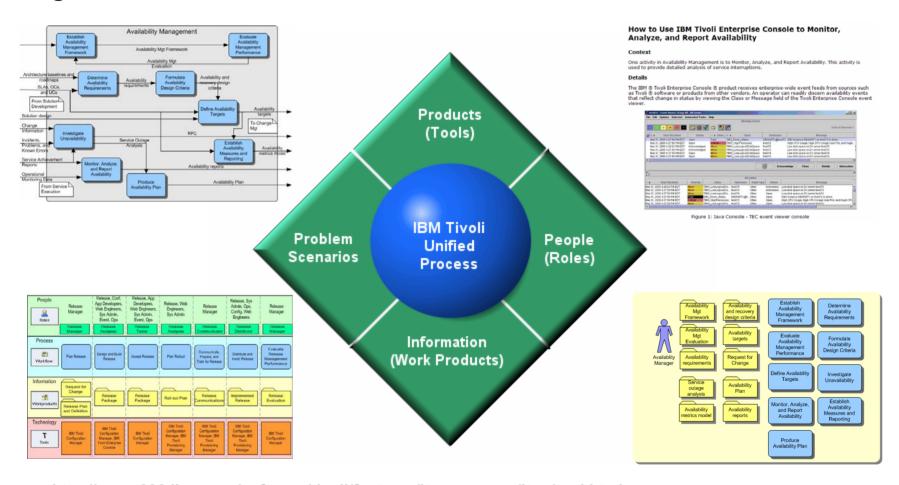
http://www-306.ibm.com/software/tivoli/features/it-serv-mgmt/resources/self-assessment-tool.html





### IBM Tivoli Unified Process Tool

The IBM Tivoli Unified Process (ITUP) provides customers a detailed guidance on how to make ITIL actionable



http://www-306.ibm.com/software/tivoli/features/it-serv-mgmt/itup/tool.html





### The Proof Behind the Story – The Real Value

Finance: 96 of top 100

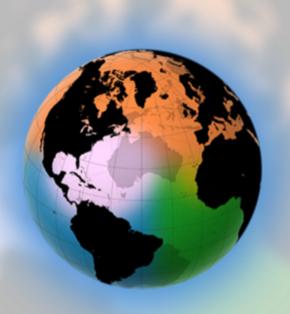








ING anticipates projected savings of €15 million (US\$ 20 million) a year



Communications: 20 of 20

TeliaSonera swisscom\_





**Swisscom Mobile tripled business** without increasing headcount

Retail: 8 of 10









Ahold achieved US\$ 200,000 savings per week and 99% system availability for 1,400 stores and 2 data centers









Anmed saved almost US\$ 420,000 annually; strengthened business continuity; reduced time to restore systems by up to 96%









### IBM is Uniquely Qualified to Deliver Service Excellence

- Only IBM delivers
  - Service delivery for business purpose
  - SOA approach for IT
  - Best-in-class architecture and knowledge
  - An average of 11% ROI in labor/staff savings and 12% for business impact
- Only IBM effectively defines and leverages client and industry best practices
- Only IBM leads the industry
  - Maintains position as market share leader in worldwide operations five years in a row (Gartner)
  - Ranks #1 in multiple IDC and **Gartner categories**



#### **IBM Service Management**







## The Top Three Things You Need to Remember about IBM Service Management

Service delivery for business purpose

by helping to ensure that IT runs as designed and providing the space to innovate and shift investments

Meet service level agreements

with business service management and real-time dashboards

Simplify decision making

through an integrated and automated approach to quality service delivery and management





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- Bonus Track ITIL Version 3





### Facts About ITIL and ITSM

#### Facts about ITIL

- ITIL is over 20 years old and still the world's most widely adopted practice for IT Service Management (ITSM)
- Practiced in almost every country in the world
- Evolved with the IT industry
- It works!
- Until now, had some grey areas

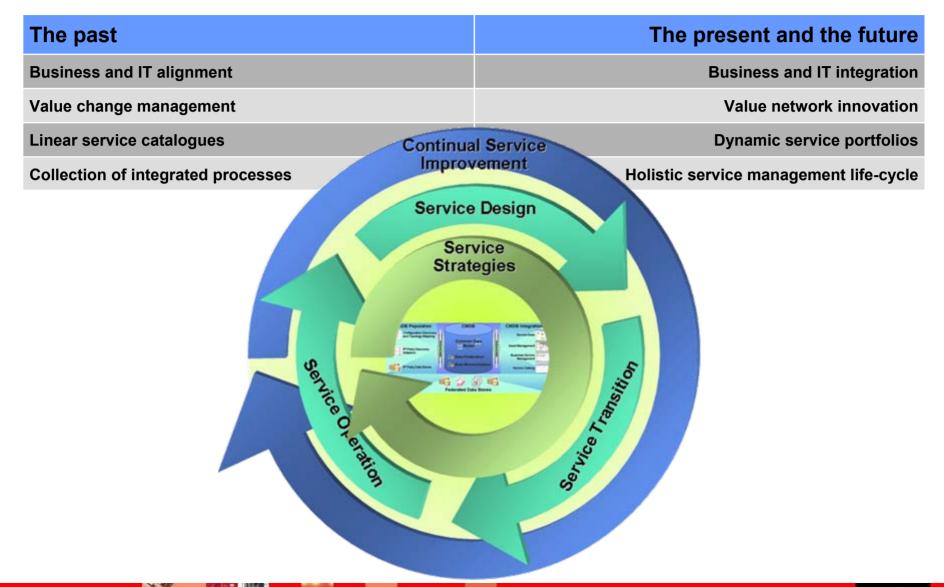
#### ITIL is getting into the boardroom

- Aligned to formal standard ISO/IEC20000
- Gained visibility at strategic levels in IT
- Demonstrates tangible ROI
- Aligned to formal IT Governance CobiT
- Supports legislated requirements SOX
- Establishes significant business case for investment decisions
- Creates a common vision for business and IT
- New innovations, strategies and possibilities
- Without asking the same questions!



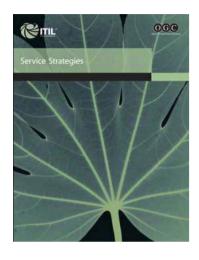


### **Next Generation of Practice**





### Service Strategies



- Business eco-systems
- From value chains to value nets
- Adaptive processes for customers, services and strategies
- Linking to external practices and standards
- Managing uncertainty and complexity
- Increasing the economic life of services
- Selecting, adapting and tuning the best IT service strategies

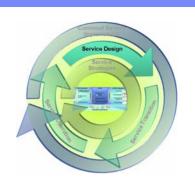




## Service Design

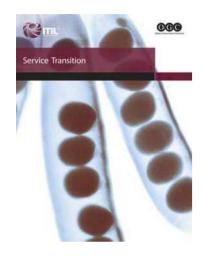


- Service Policies, architectures, portfolios and models
- Effective technology, process and measurement design
- Outsource, shared services, cosource models - How to decide and how to do it
- The service package of utility, warranty, capability, metrics tree
- Triggers for re-design

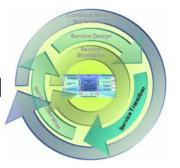




### Service Transition

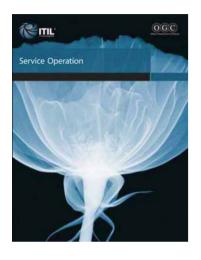


- Newly designed Change, Release and **Configuration processes**
- Risk and quality assurance of design
- Managing organizational and cultural change during transition
- Service management knowledge system
- Integrating projects into transition
- Creating and selecting transition models

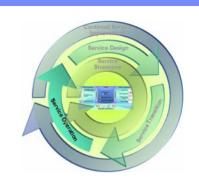




# **Service Operation**

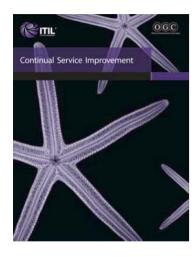


- Robust end to end operations practices
- Redesigned, incident and problem processes
- New functions and processes
- Event, technology and request management
- Influencing strategy, design, transition and improvement
- SOA, virtualization, adaptive, agile service operation models





## Continual Service Improvement



- The business case for ROI
- Getting past just talking about it
- Overall health of IT Service Management
- Portfolio alignment in real real-time with business needs
- Growth and maturity of SM practice
- How to measure, interpret and execute results

