## **IBM Service Management Strategy**

Hakan Turgut IBM Tivoli Software

Pulse Istanbul'da



## Agenda

#### Business and IT Objectives and Priorities

Customer study findings – Realize value from existing IT and business assets

#### Service Management Essentials

Overview of IBM Service Management and the underlying platform blueprint

#### IBM Service Management

- IBM Service Management solutions are designed to integrate and protect current investments
- IBM Service Management Suite and the Core Products
- IBM Service Management Business Value
- Next Steps

## **Top 10 Business Priorities for 2009**

Organizations technology priorities concentrate on realizing value from existing assets through systems management solutions in order to raise enterprise visibility and transparency to align with business priorities (Gartner EXP worldwide CIO survey – January 2009)

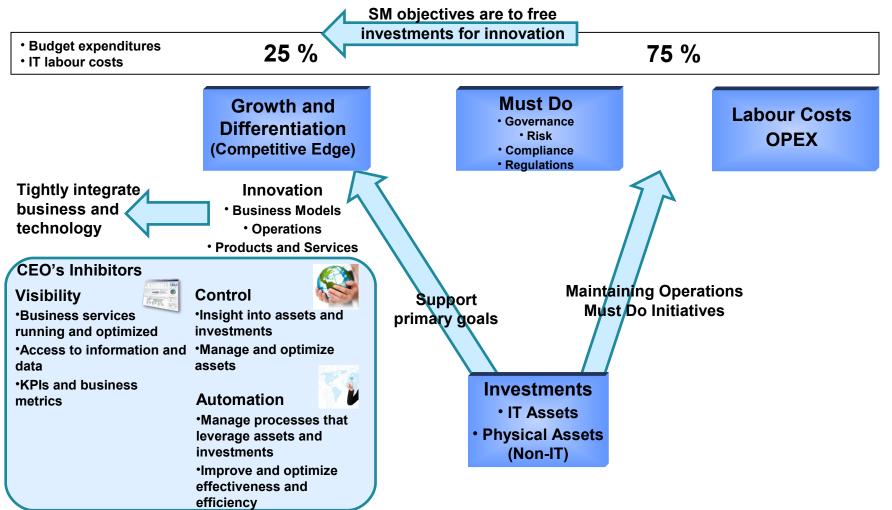
Ranking	Business Priority
1	Business process improvement
2	Reducing enterprise costs
3	Improving enterprise workforce effectiveness
4	Attracting and retaining new customers
5	Increasing the use of information/analytics
6	Creating new products or services (innovation)
7	Targeting customers and markets more effectively
8	Managing change initiatives
9	Expanding current customer relationships
10	Expanding into new markets and geographies

Source: Gartner EXP (January 2009)

## Why to Invest in Service Management?

#### Quantifiably improve the leverage of customers investments

CEO's reason to invest in IT and Service Management



Support Business Objectives with IBM Service Management and Dynamic Infrastructure

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### **Enabling Innovation with Service Management**



#### Visibility – See your Business

Respond faster and make better decisions



#### Control – Govern your Business

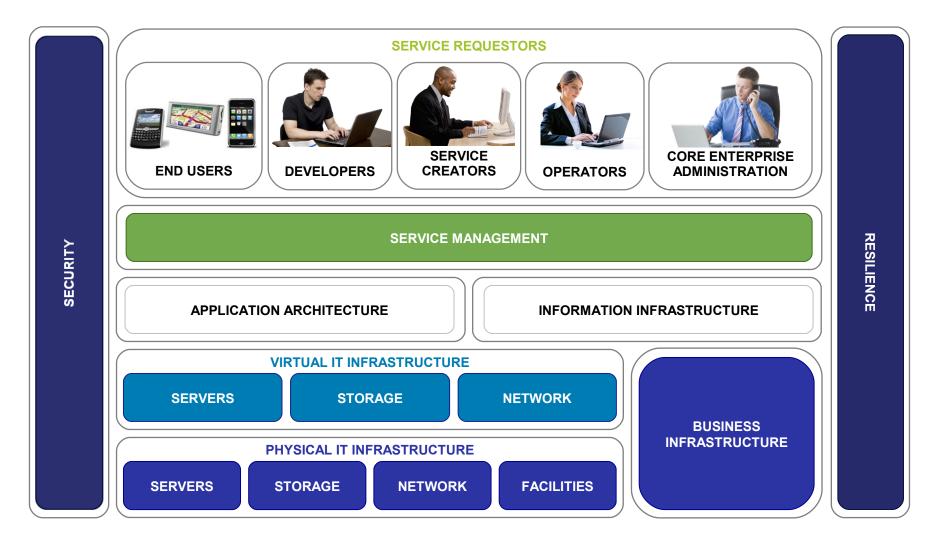
Improve quality and reduce risk



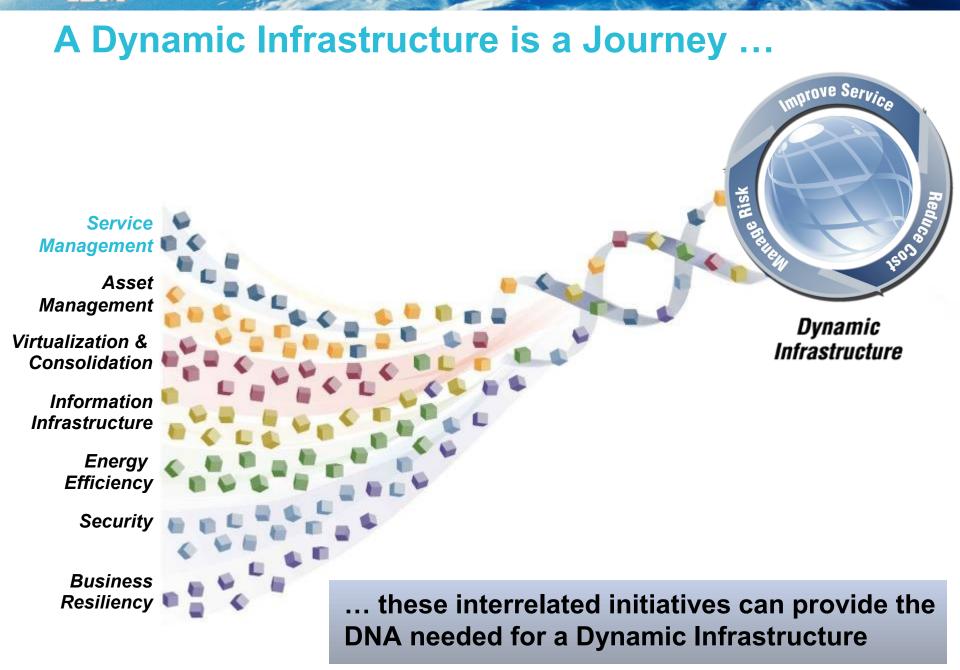
## Automation – **Optimize** your Business Lower costs and build agility

## **Architectural Model for Dynamic Infrastructure**

#### Description of the Dynamic Infrastructure components at a high level



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- Dynamic Infrastructure Essentials
  - Overview of Dynamic Infrastructure and the 7 building blocks
  - The journey towards a Dynamic Infrastructure

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#### Process Framework Models

- ITIL v3 Best practices for Service Management
- IBM Tivoli Unified Process Tool
- Market Analysts on Service Management Landscape
  - Analysts research and predictions on the Service Management strategies and solutions
- Where to get Started
  - IBM Assessments help clients continue the journey towards a Dynamic Infrastructure
- Next Steps

## **Quality Service Delivery Requires Service Management**

What do we mean by a <i>Service</i> ?	<ul> <li>An offering, function or activity delivered to an internal or external customer that may contribute revenue and profit or fulfill a critical mission of an organization</li> <li>The output created through the use of an organization's human, intellectual, financial and physical assets</li> </ul>	A compared of the second secon
What do we mean by <i>Service</i> <i>Management</i> ?	<ul> <li>Service management encompasses the management processes, tactics and best practices needed to deliver business services</li> <li>Applies to IT, operations, and line-of-business services – all require service management</li> </ul>	

## What is IBM Service Management

ISM solutions deliver the visibility, control and automation needed to increase quality of service, manage risk and compliance, maximize return on investments, and accelerate business growth.

Address the top five tactical challenges to minimize time to value and to achieve practical business results and benefits.

#### Discover

- What you have the infrastructure
- What if it breaks the business risk of outages

#### Monitor

- Smart devices in both IT and business
- Manage performance and energy consumption

#### Protect

- Information from unwanted access
- Business from outages

#### Industrialize

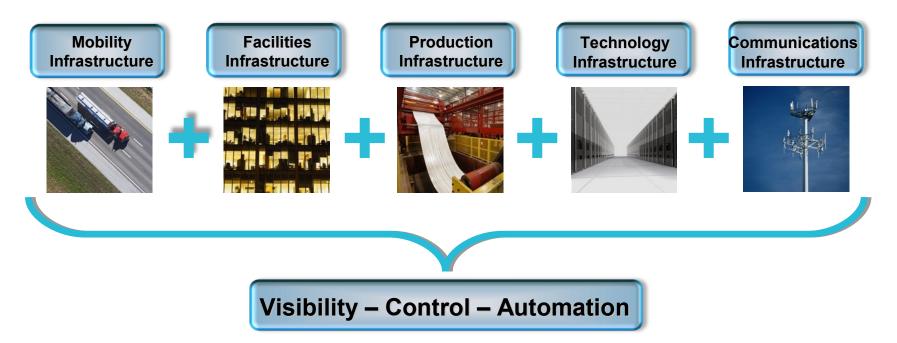
- Automate the process of IT
- Assure quality service to users and consumers

#### Integrate

- Application development and IT operations
- Quality service across IT and business infrastructure

## **Service Management – Think Different**

Achieving service excellence extends IT's contribution to economic performance beyond managing expenditures



- Enabling visibility, control and automation across all business and IT assets supports converged management to deliver service excellence
- Innovation delivers new products, services, processes and business models to help accelerate growth and create competitive advantage

## **Enabling Innovation with Service Management**

Innovation is the process of delivering new products, services, processes and business models to help accelerate growth and create competitive advantage – quantifiably improve the leverage of customers investments



- Implement dashboards for real-time operations and process management
- Create an integrated, actionable, and insightful view into business metrics





- Implement an integrated asset control solution to discover and utilize those assets
- Integrate process workflows with operational tools to enforce control

#### Automation Build agility into your operations



- Optimize and integrate operational processes that directly support the business
- Improve quality and reduce costs through automation by leveraging and integrating existing tools

## **IBM Service Management Solutions**

IBM Service Management solutions support building an infrastructure needed to increase quality of service, manage risk and compliance, maximize return on investments and accelerate business growth

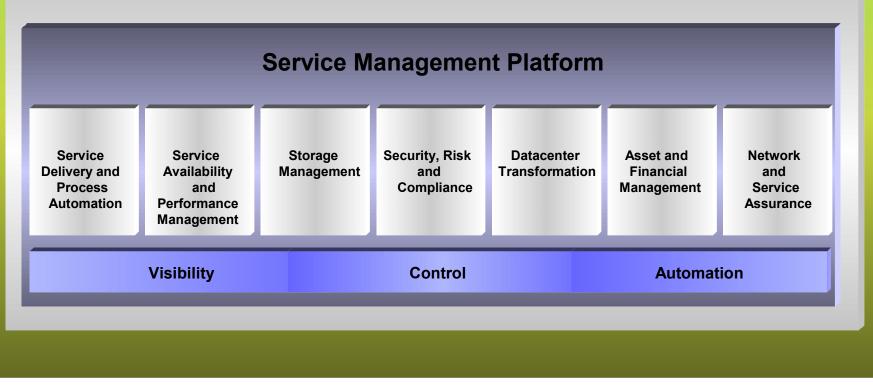
Discover	Monitor	Protect	Industrialize	Integrate
<ul> <li>What is out there – the infrastructure</li> </ul>	<ul> <li>Smart devices in IT and business</li> </ul>	<ul> <li>Information from unwanted access</li> </ul>	Automate the process of IT	Application     development and IT
<ul> <li>What if it breaks – the business risk of outages</li> </ul>	<ul> <li>Manage performance and energy consumption</li> </ul>	<ul> <li>Business from outages</li> </ul>	<ul> <li>Assure quality service to users and consumers</li> </ul>	operations <ul> <li>Quality service</li> <li>across IT and</li> <li>business</li> <li>infrastructure</li> </ul>
Infrastructure Discovery and Mapping	Event and Performance Management	Vulnerability and Threat Management	Virtualization Management	Business Service Management
Assessing Security controls Effectiveness	SOA Applications Performance	Data Backup, Restore and Retention	Energy Management for Green Savings	Service Deployment and Lifecycle Management
Business Resilience Planning	Policy and Regulatory controls Monitoring	Business Continuity and Disaster Recovery	Single Sign On	Integrated Service Management Planning
	User Activity Monitoring and Log Management		IT Asset Management	
	User Access Rights and Lifecycle Management		Usage Accounting	

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#### **IBM Service Management**

#### **Best Practices, Methodologies, and Services**



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#### IBM Service Management

- IBM Service Management solutions are designed to integrate and protect current investments
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- IBM Service Management Business Value
- Process Framework Models
  - ITIL v3 Best practices for Service Management
  - IBM Tivoli Unified Process Tool
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## **Integrated Solutions for E2E Service Management**

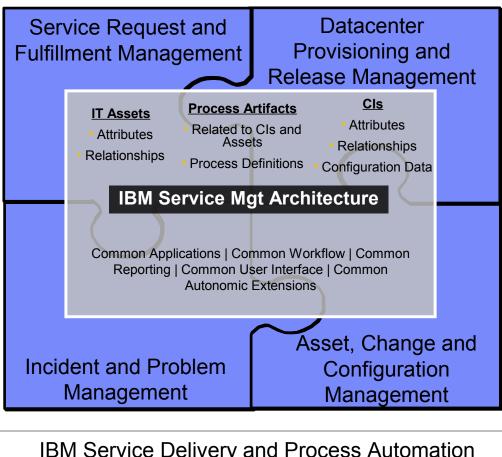
Integrated Solution An Integrated set of solutions represent the full management of data, processes, tooling and people

Common Data Model The core solutions share a common data subsystem for simple data sharing

Processes that Work Together The core solutions share a process workflow automation engine

No Rip and Replace Leverage existing investments in IBM and 3rd party IT management tools

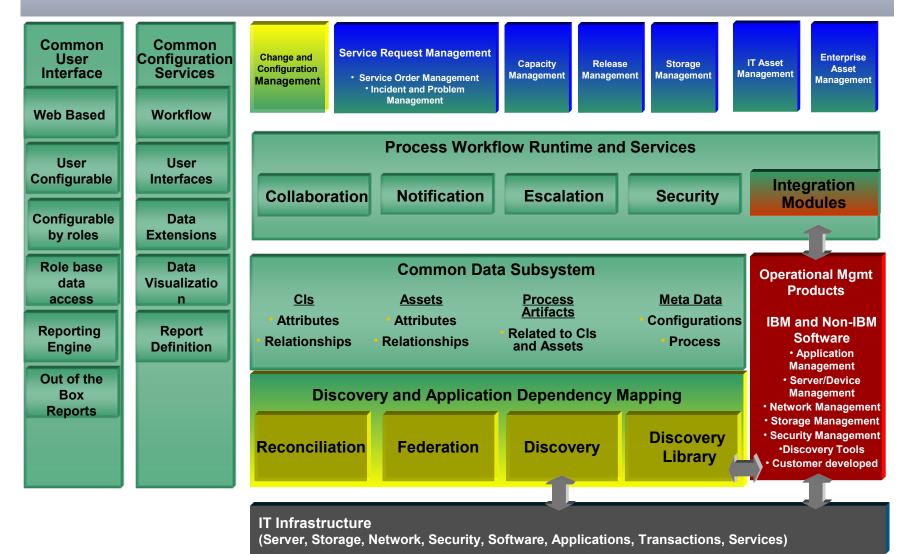
Lower Cost of Ownership Lower infrastructure and training costs, simple upgrade model



IBM Service Delivery and Process Automation Offers a Unified Platform to seamlessly support Service Management Life-Cycle, simplifying the transition from ITIL V2 to V3

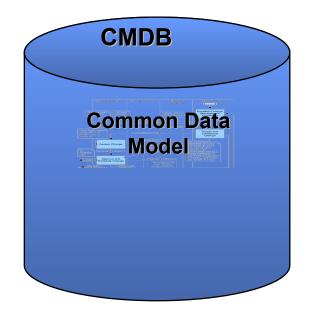
## **IBM Service Management Suite**

#### **Description of the IBM Service Management Platform and core components**



## **CMDB – Foundation for Service Management**

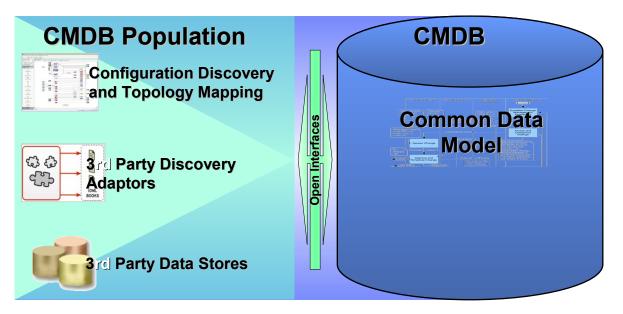
The CMDB provides the source about Configuration Item information and the relationship between them



- 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**

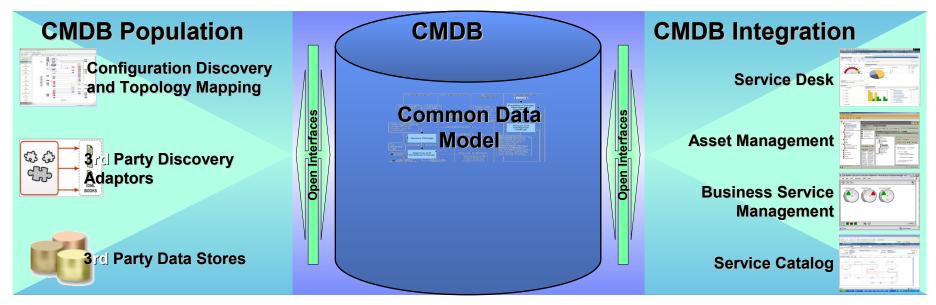
Automated discovery and mapping technology populates attribute information and interrelationships between Configuration Items



- 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**

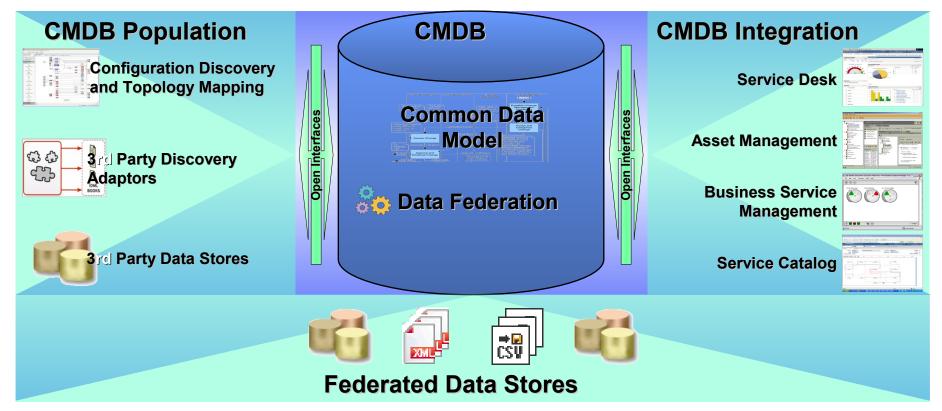
The CMDB is the integration point for the applications which use the information to provide Service Management processes



- 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**

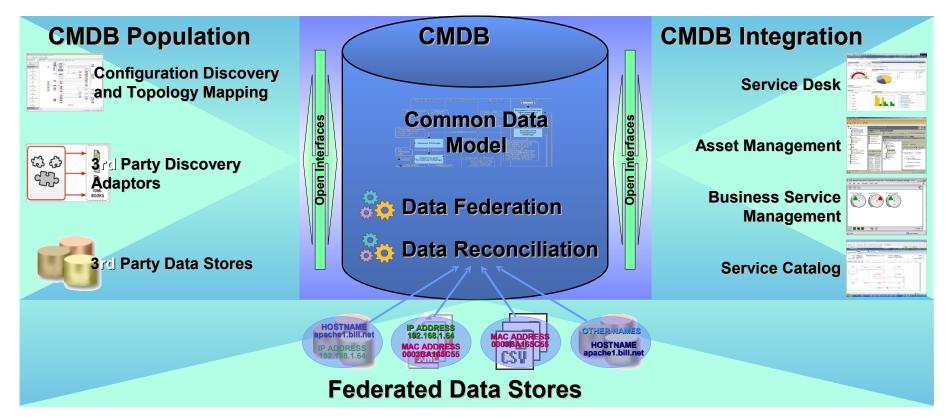
Federated data stores contain information which need to be tracked or referenced but which is not part of the core Configuration Item



- 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

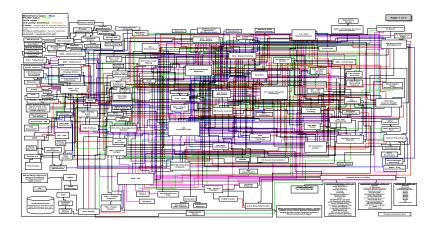
## **CMDB – Data Reconciliation**

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

## Visibility through Discovery and Application Mapping

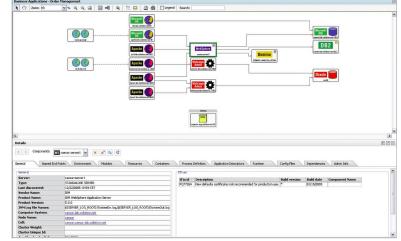


#### **Traditional View of Infrastructure Topology**

- 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



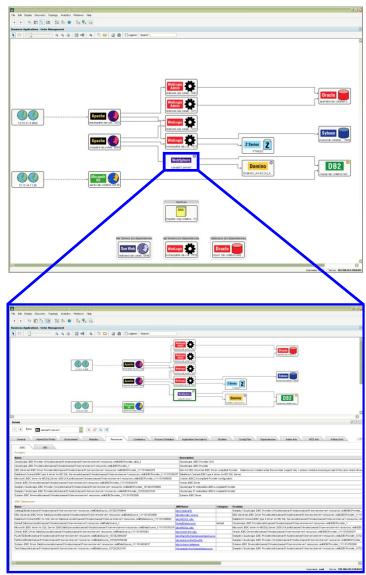
## Relationship Mapping and Configuration

#### See the Big Picture

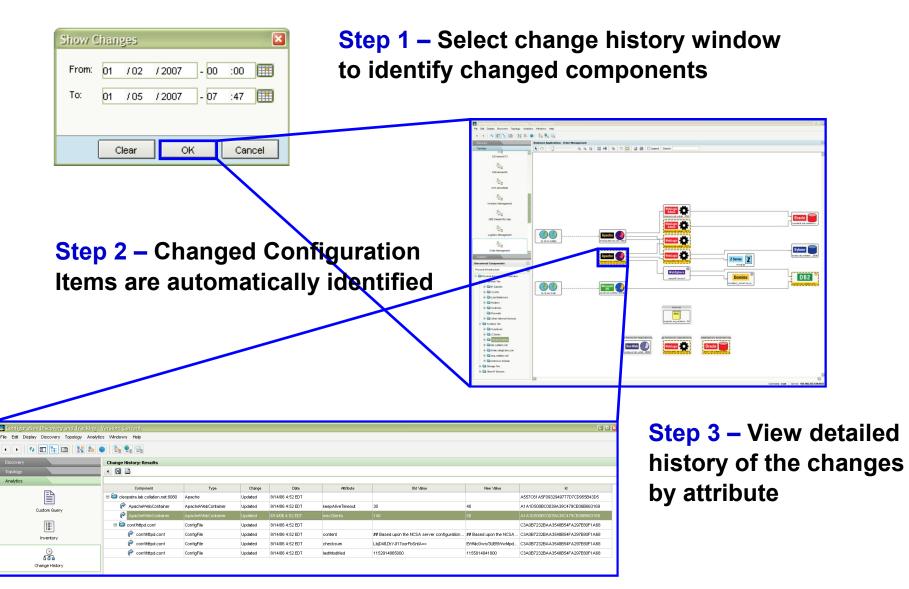
- Broadest and most extensible coverage
- Deepest cross-tier, run-time detail
- Only fully automated application discovery

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

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

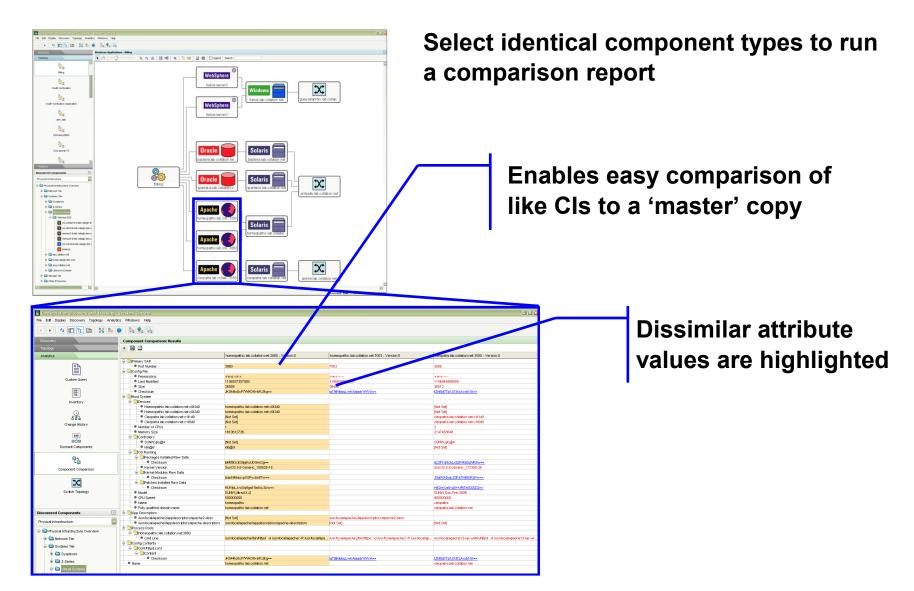


### **Identify Changes to Assist Problem Resolution**



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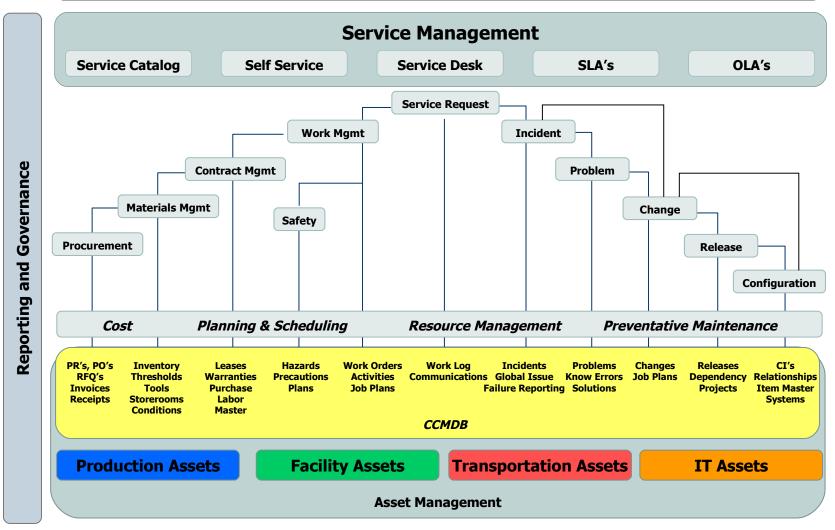
#### **Audit Configuration Items via Comparison**



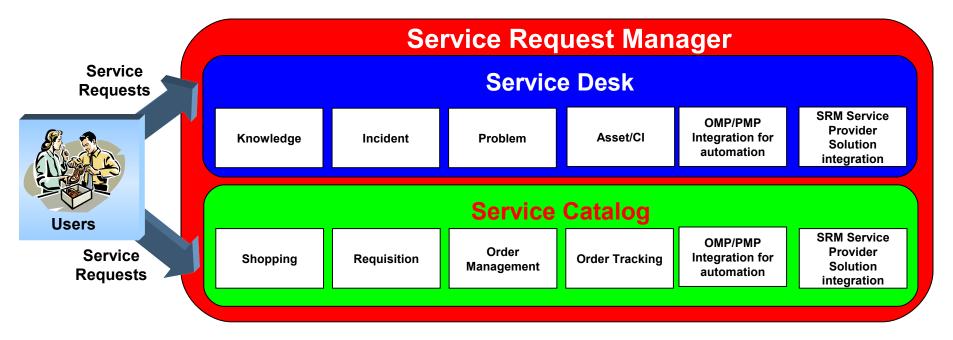
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# Service Request Management – Solution Capabilities

The Business: (Missions, Goals, Customers, Users)



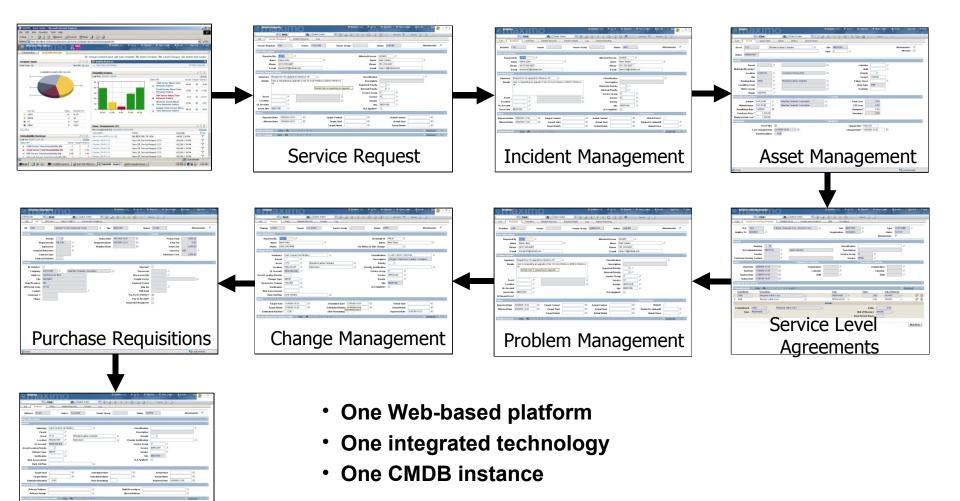
## **Unified Solution to Improve Productivity**



- Advanced work management processes
- Flexible and easy to configure, no coding required
- Integration with CCMDB, TEC & other OMPs
- Multi-customer support
- Based on leading standards-based technology – J2EE, SOA, XML

- Process integration, built from the ground up on ITIL
- Single user interface
- Dashboards and reports
- Data integration
- Enterprise asset management integration

#### **End-to-End Best Practice Service Management**



Release Management

## IT Asset Lifecycle and Software License Management

What did we purchase versus what is deployed? Should we buy or lease? How do I manage vendor contracts and volume purchase agreements? How do I optimize my inventory? How do I validate invoices and enable accurate reporting?

What do we own? Have we over-purchased? Savings opportunity? Have we under-purchased? Is this a compliance risk? How do we manage complex license types? What about virtualized environments?

What hardware and software is deployed? What is the software use? What is the license use? Who has it? Where is it located? How do we keep this up to date?

#### **IT Asset Lifecycle Management**

**IBM Tivoli Asset Management for IT** 

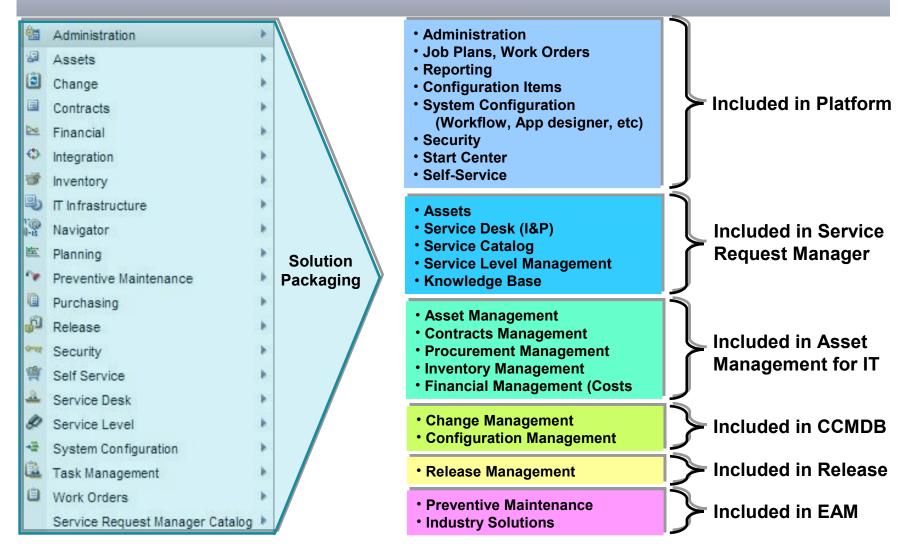
#### **SW License Management**

IBM Tivoli License Compliance Manager

**IT Asset Inventory** 

## **Integration Enables Productivity and Adds Value**

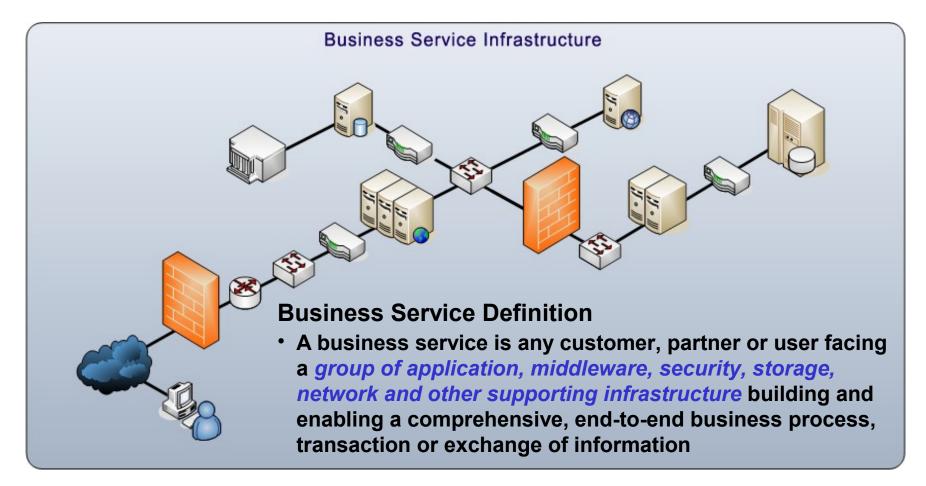
#### IBM Service Management Platform puts everything seamlessly in one place



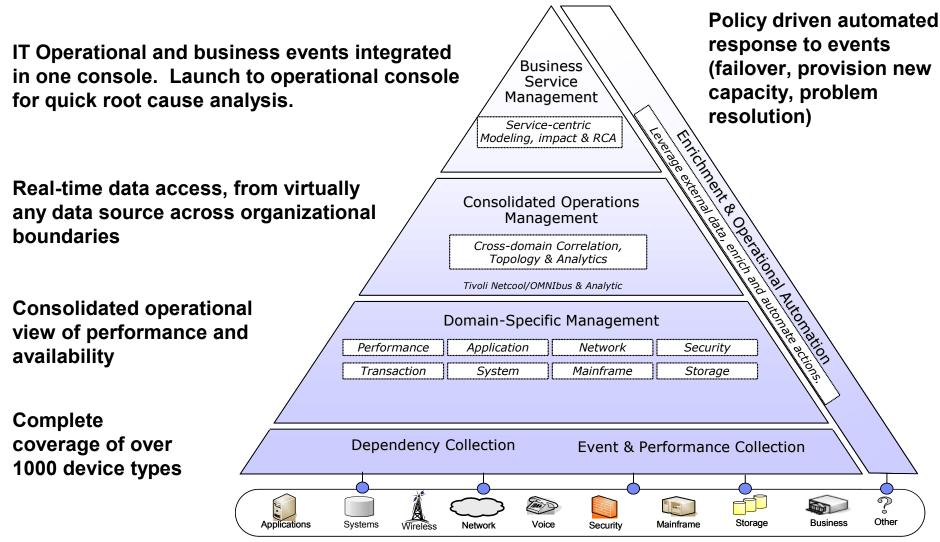
## **Definition of Business Service**

#### **Traditional Understanding**

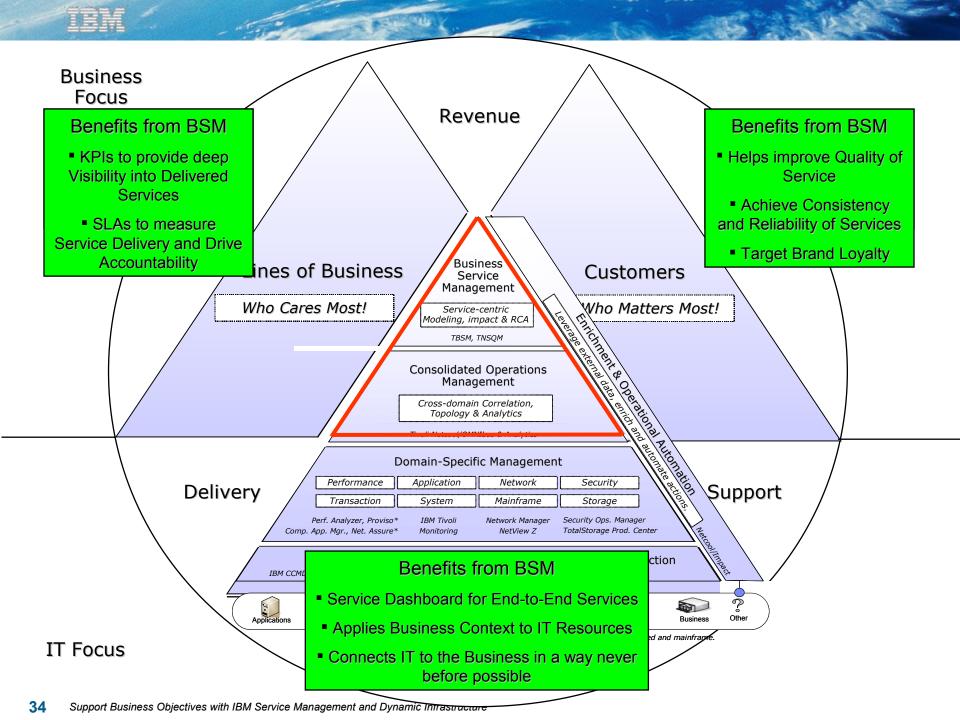
- A customer, partner or user facing any *business application* 
  - Examples: SAP, Siebel, Oracle, Microsoft Exchange



## **Business Service Management**



Note: All layers are inclusive of distributed and mainframe.



## **Business Service Management Vision**

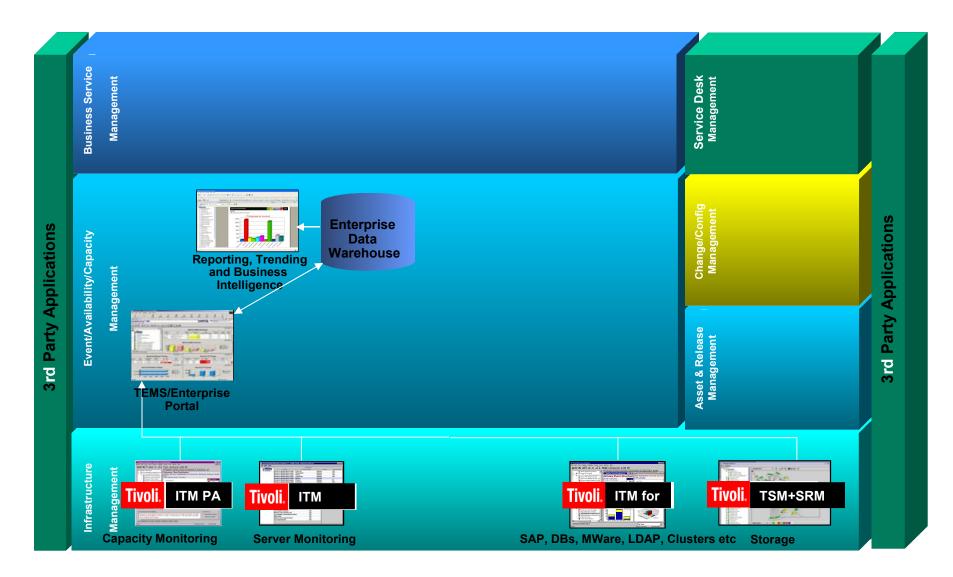
The "Single Pane of Glass" to Manage Your Business Services

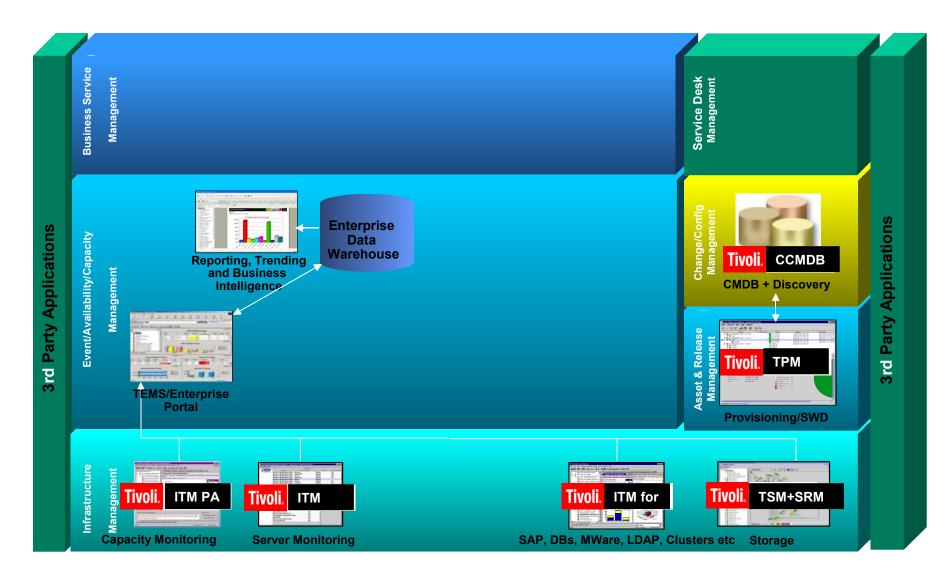
- Line of Business Views
- Service Health Views
  - Availability
  - Performance
  - SLA Status
  - E2E Visibility
- Business Activity Views
  - Real-time KPIs

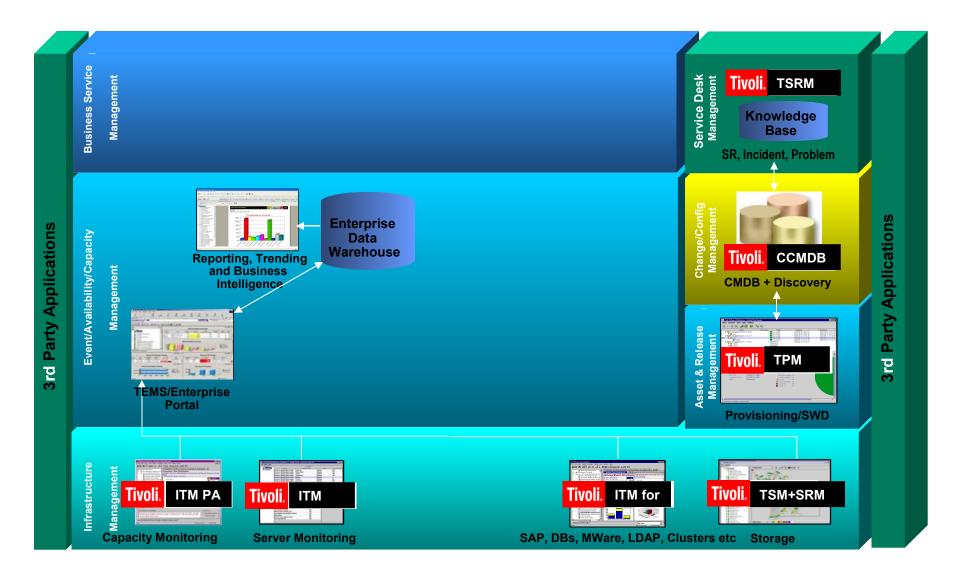


### **Tivoli Phased Approach – Phase 1**

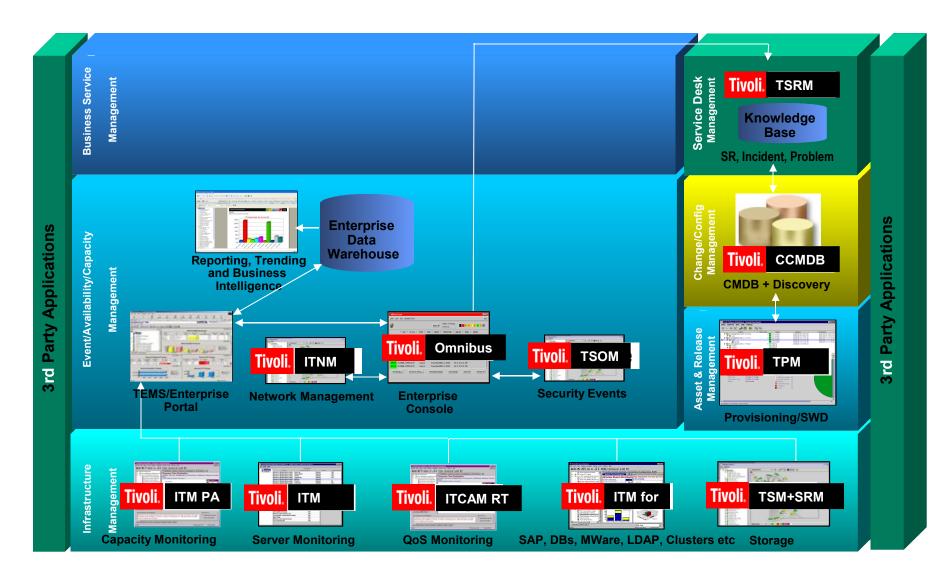
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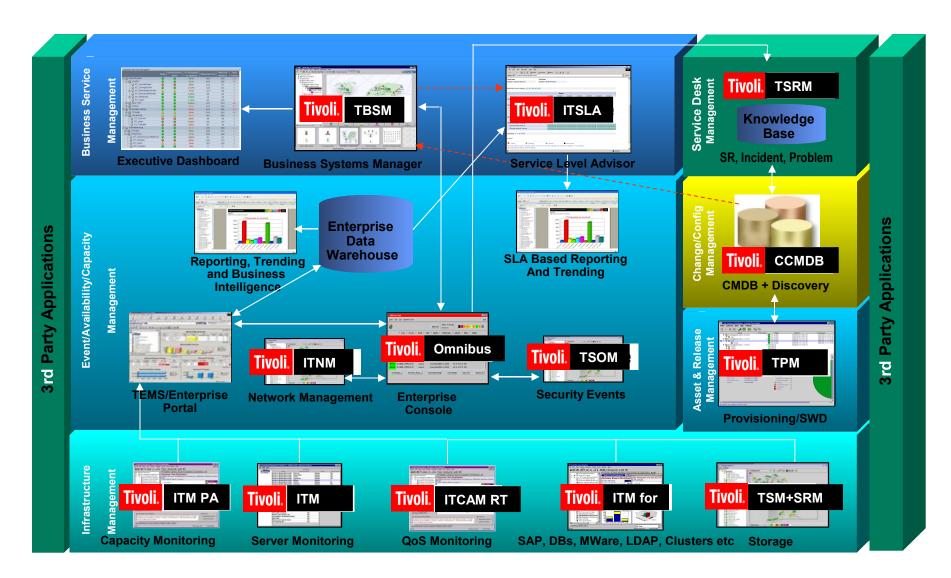






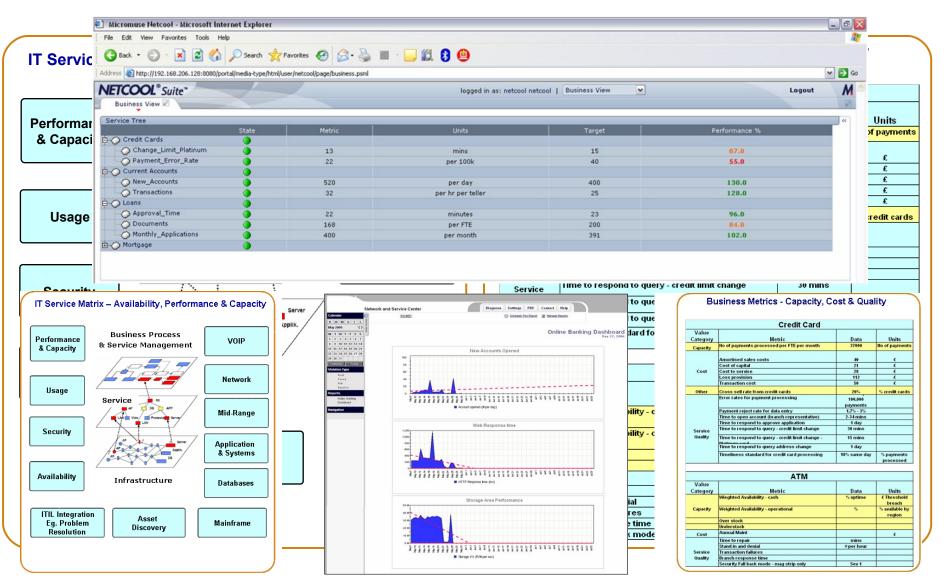
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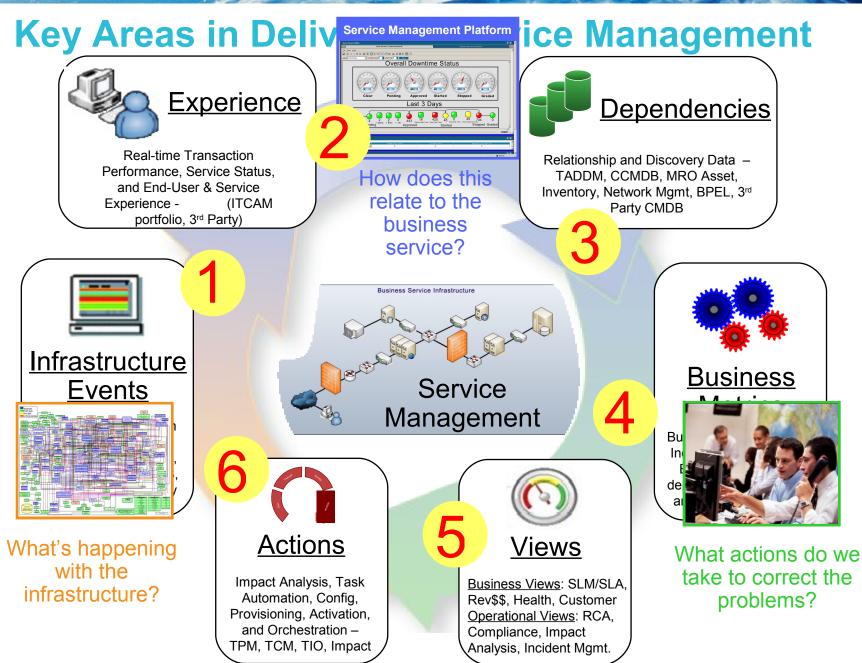


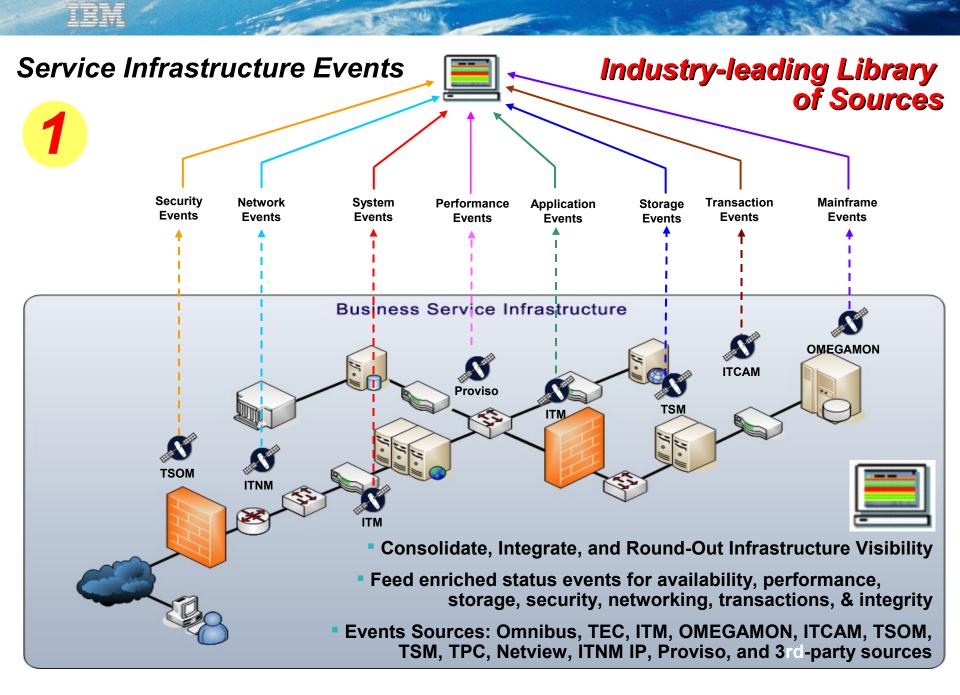
# **Align the Metrics to Manage Business Services**

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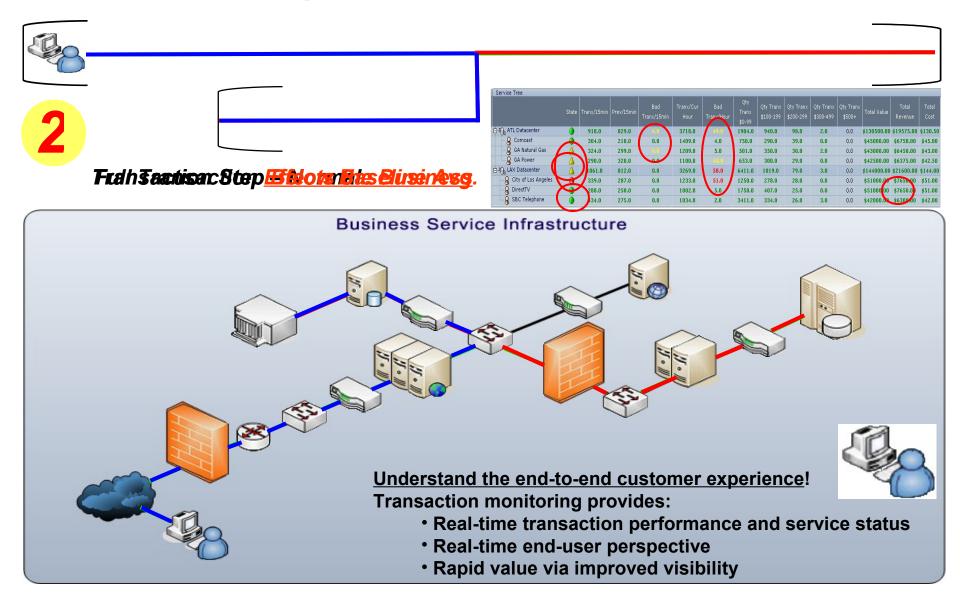
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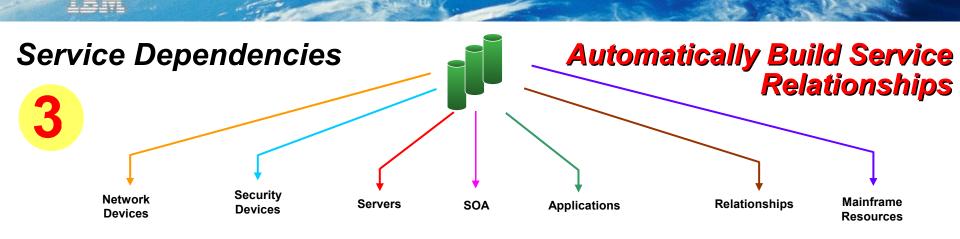


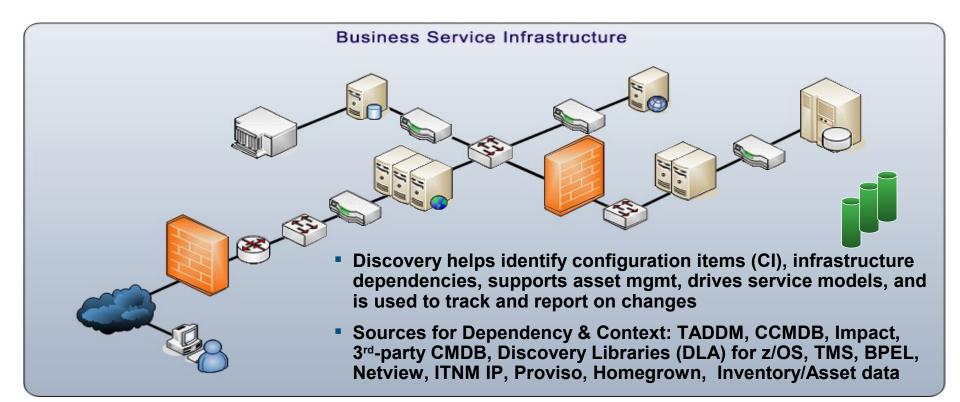


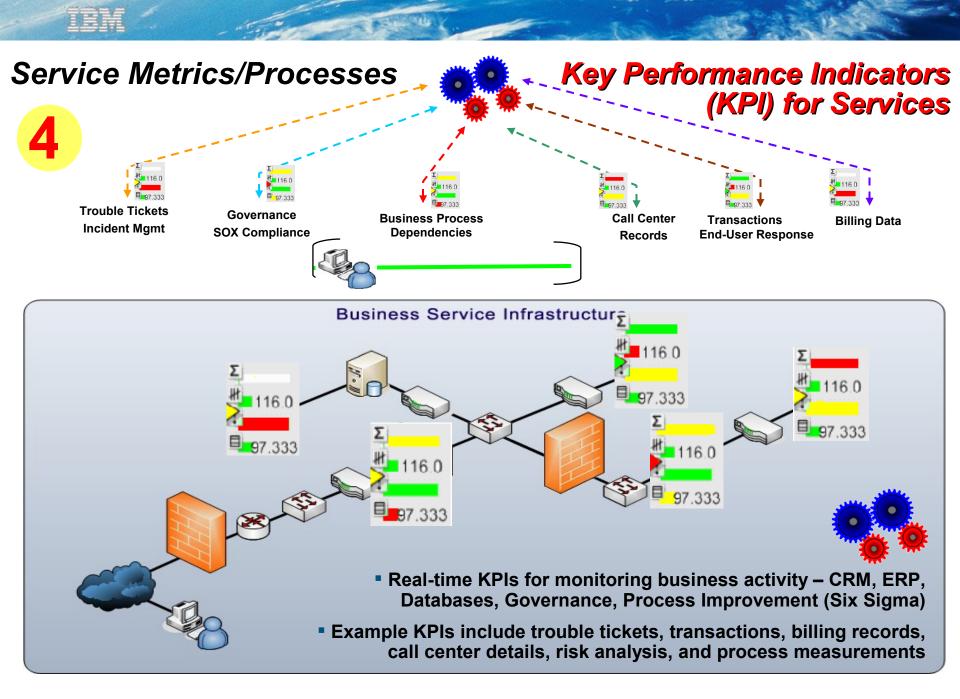
#### **User and Service Experience**

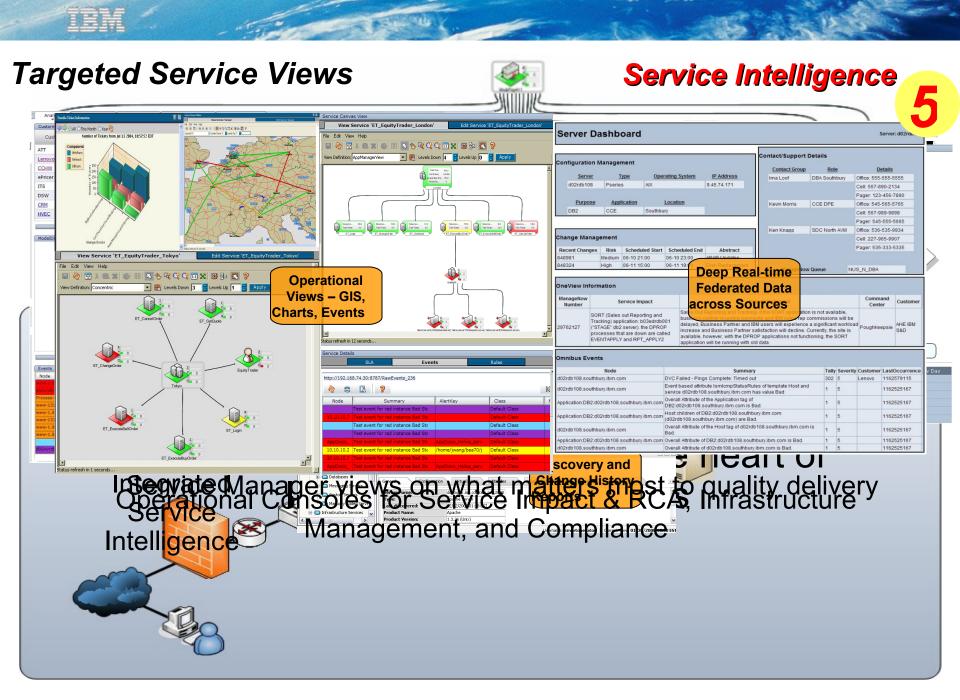
#### **Measure Real Transactions**

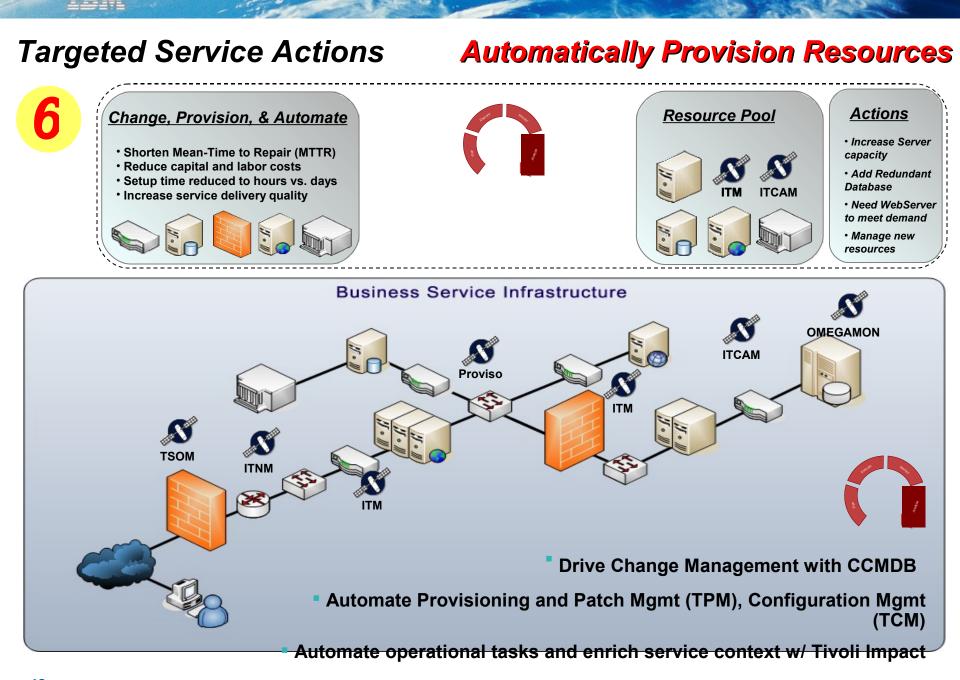












# **Benefits of IBM Service Management**

#### 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."* 

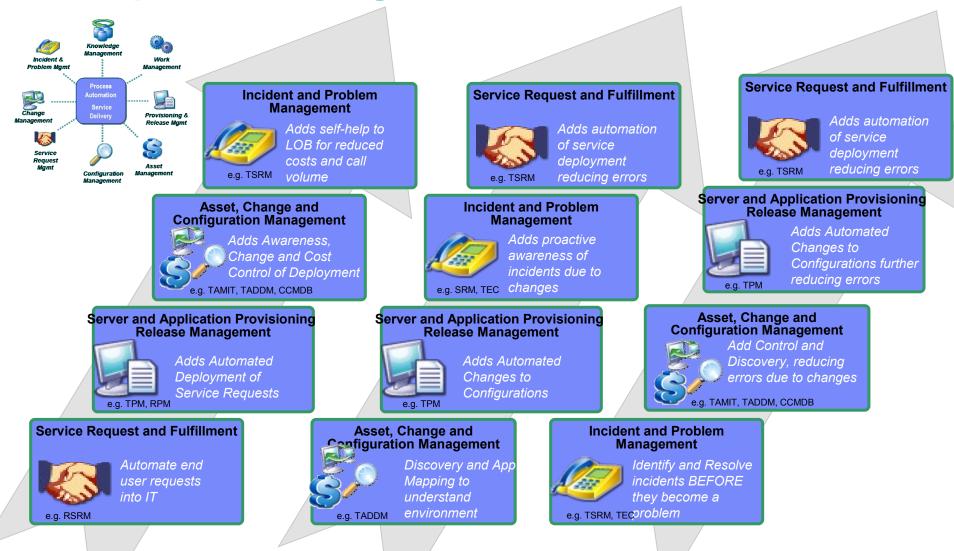
- Arndt Kollett , Lead Architect, E.ON IS GmbH, Germany







### Sample Value Progressions – Value Grows as Needs Change



Maximize asset utilization, reduce cost, mitigate risk, exploit asset convergence







#### Bu sunum 28 Mayıs 2009 tarihinde Swiss Otel'de yapılan Tivoli Pulse 2009 toplantısı için hazırlanmıştır.

http://www.ibm.com/software/tr

http://www.ibm.com/software/tr/tivoli

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