

### **ON DEMAND BUSINESS** | IBM Software Group

# "Take Back Control"

# **IBM Service Management**

A better way to manage the business of IT



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Norman Wilkinson Service Management Leader IBM Tivoli Software UK, Ireland & South Africa



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Today's challenges

- Growing Complexity
- Rapid, Constant Change
- Escalating Costs

<u>2</u>

- Regulatory Compliance
- Lack of Service Context





Today's challenges

Growing Complexity

- Disparate technologies
- Inflexible infrastructures
- Acquisitions
- Legacy
- International or global reach





Today's challenges

Rapid, Constant Change

- e-Business shift in routes to market
- Demand for instant on-line transactions
- Open competition service differentiates
- Customers are IT aware
- Shift from Product to Customer focus



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Today's challenges

Escalating Costs

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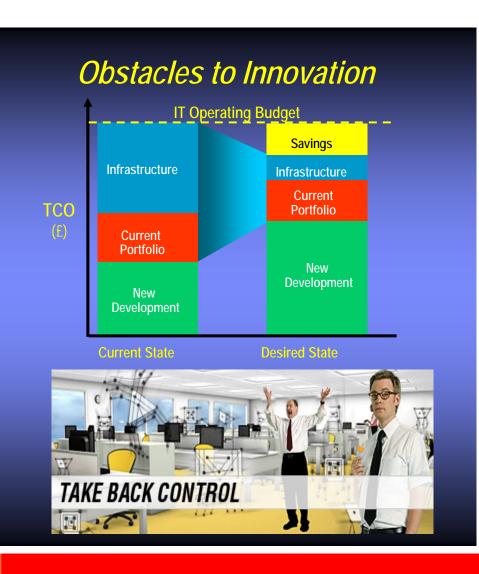


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Today's challenges

Escalating Costs

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Today's challenges

Regulatory Compliance

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- Increasing security requirements
- Increasing audit requirements
- Data retention and lifecycle impact





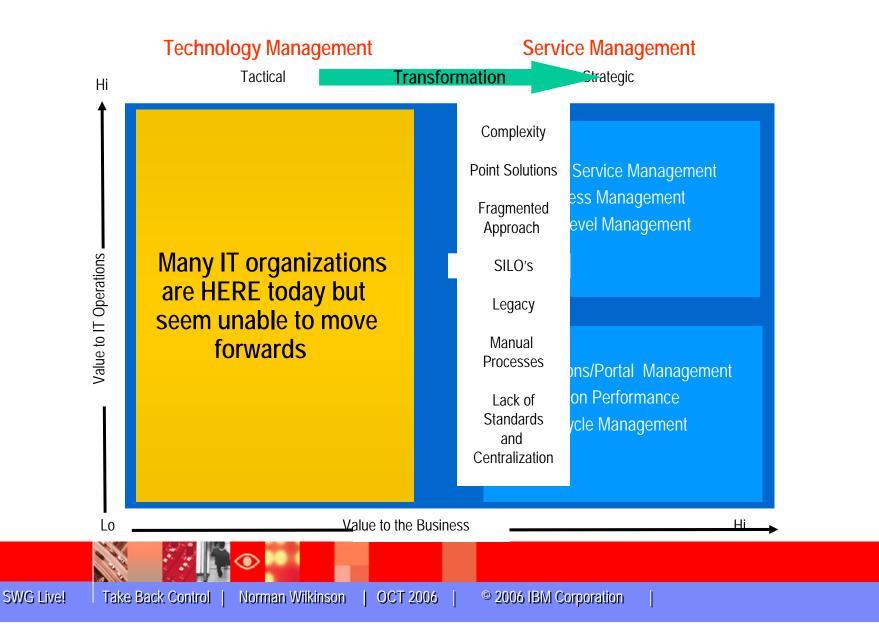
Today's challenges

Lack of Service Context

- Culture and organization
- Process maturity
- Poor management information
- Collaboration between Technology silo's
- No means of measuring service against business KPI's







9



The drive towards value

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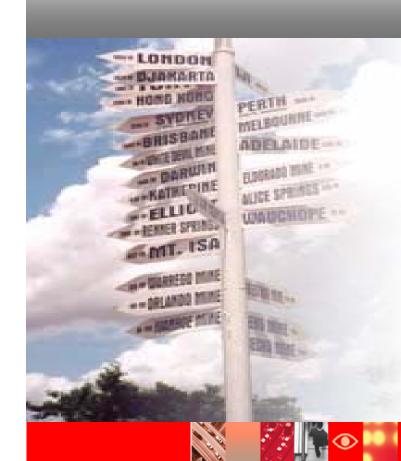


IT	VALUE	BUSINESS
IT efficiency & productivity gains Centralization Standards Integration Service Management culture Best Practices Utilization improvement Process Automation	IT aligned and responsive to business Focus on service Manage and measure by service Optimization through automation High availability & performance Compliance assurance Value for money Service = Expectation	Customer retention Customer acquisition Response to change in the market Response to new opportunities Time to Market Routes to Market Competitive advantage
Cost Efficiency Scalable model Ability to fund innovation	Partnership & Trust Mutual value	Agility to prosper from change Focus on growth not operation Returns on Investment

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### The Roadmap to Take Back Control



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11

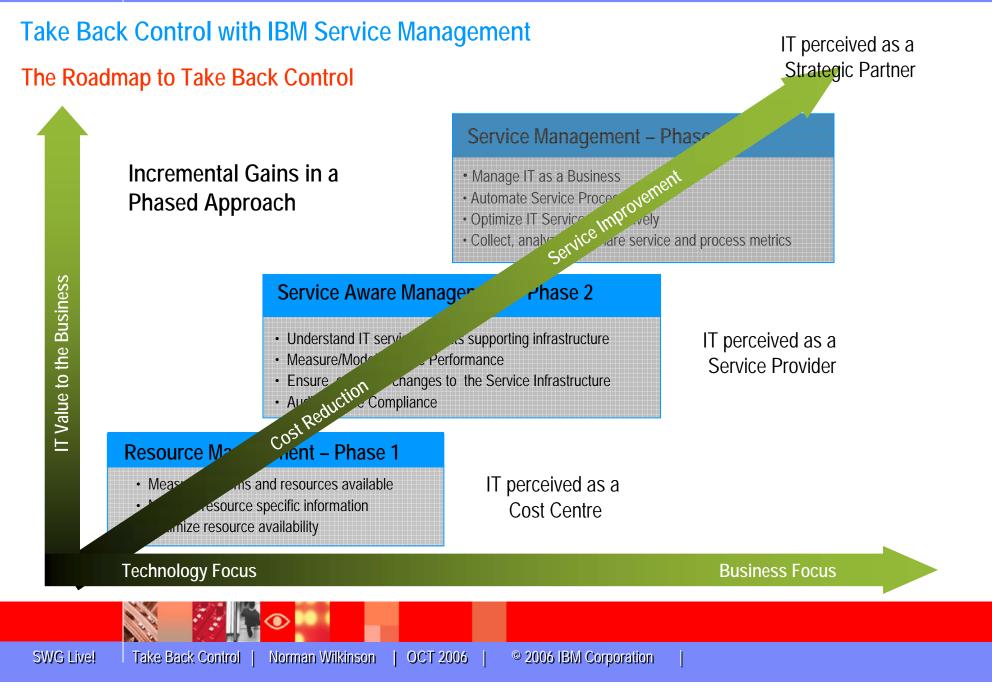
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- Reduce Costs align labour to technology effectively
- Manage Complexity high visibility and availability
- Align IT to the Business become service and value aware
- Manage Application Performance the Customer Experience
- · Automate service processes optimized and in control

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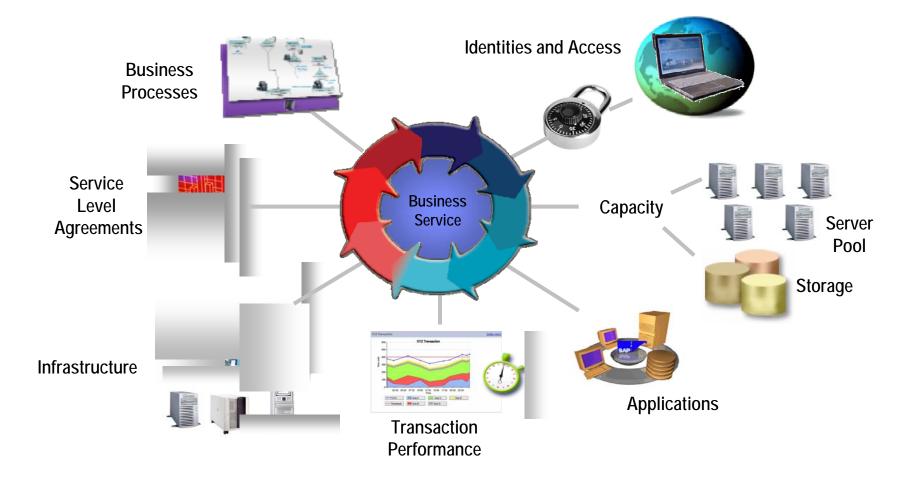
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### What lies beneath a Business Service

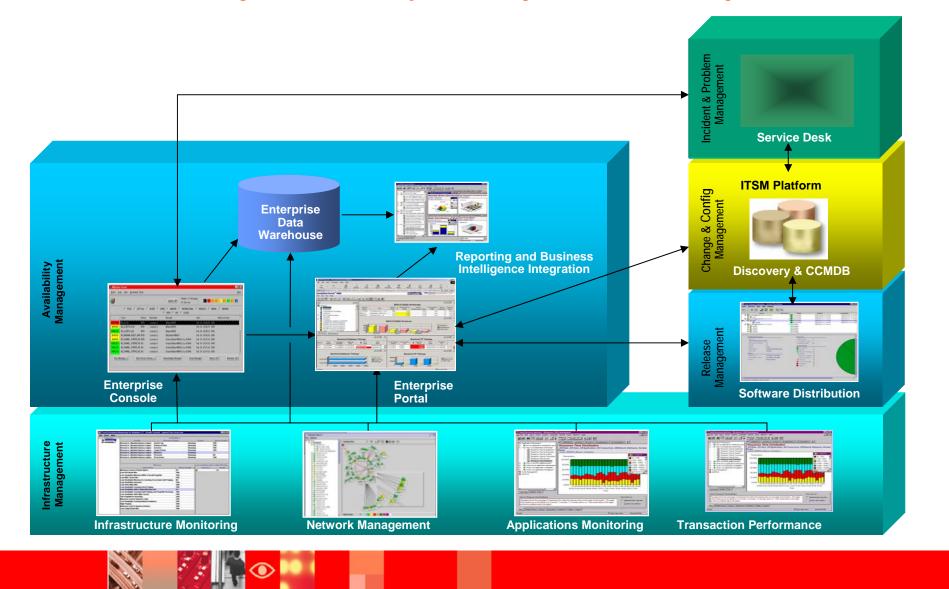




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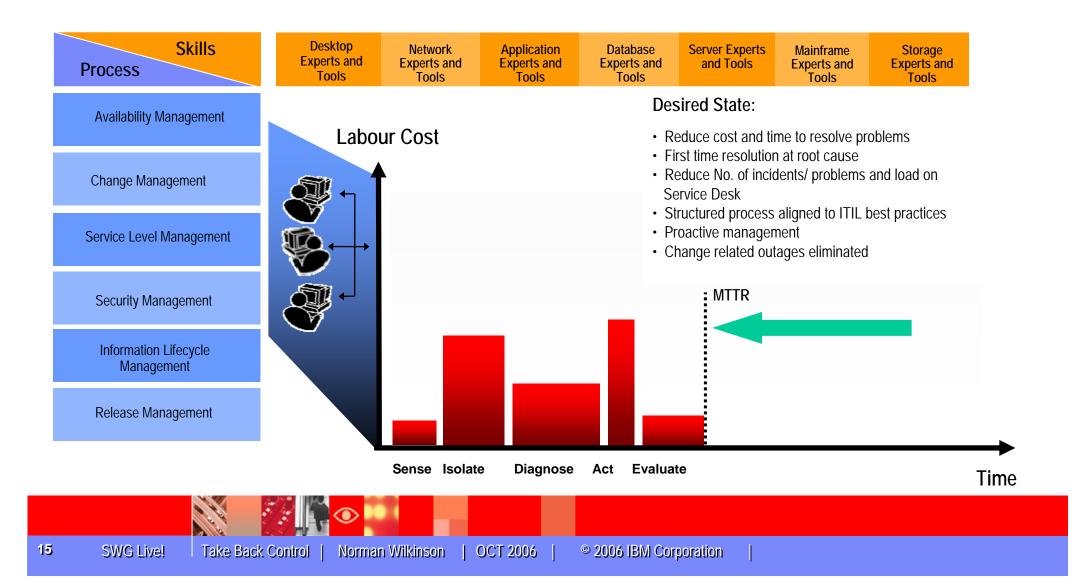
### Phase 1: Resource Management - Build on your existing infrastructure management tools



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### Managing Cost and Responsiveness across IT Silos



Tivoli Enterprise Console - Event Management

- Operator response centre for management of events coming from a variety of sources
- Rules-based engine for correlating and analyzing events
- Proactively acts to address situations <u>before</u> they become problems
- Accelerates problem resolution by guiding support to the relevant problem

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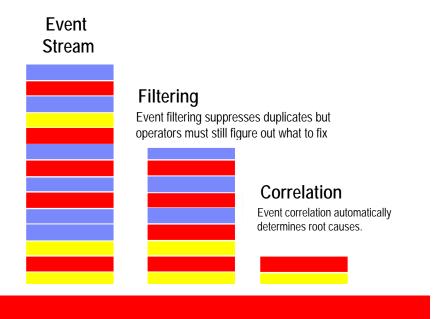
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- Reduces the number of problems to deal with
- Escalation and Notification capabilities
- Fewer operators can handle larger environments
- Lower reliance on skilled/experienced operators
- System performance & availability are improved
- Reduces Total Cost of Ownership

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16

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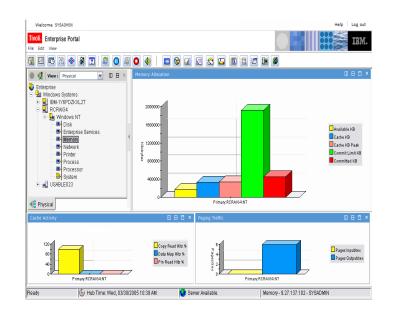
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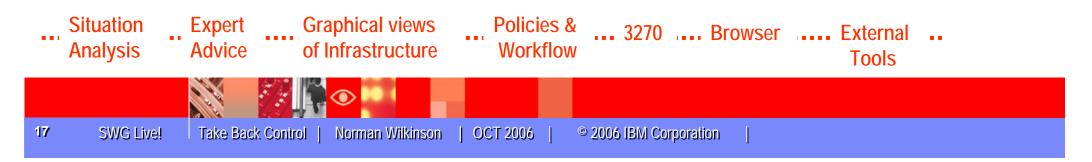




Tivoli Enterprise Portal – end to end management from a single, central point

- Integrates multiple Tivoli management products under a common GUI
- Adds personalization, event and status management, workflow automation, expert advise, 3<sup>rd</sup> party integration and more...
- Access to all IT components from one place
- Effective and productive working environment for individuals
- Better leverage of technical specialists and promotes collaboration
- Improves efficiency and reduces time to resolve common system problems and outages



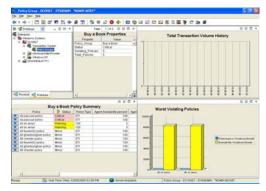




### Create Multiple Customized Composite Application Workspaces



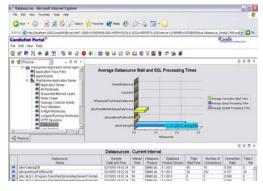
### Operating Systems & MW



### End to End Transactions



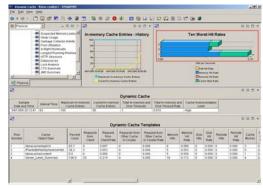
### Native z/OS Health



### WBI Infrastructure

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### WS & J2EE Applications



### Databases

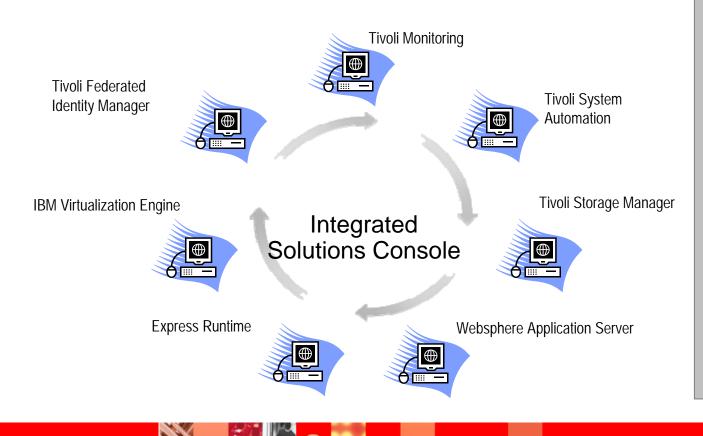
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### Take Back Control with IBM Service Management

The Tivoli Enterprise Portal is a member of the ISC Family of Solutions – A Common Systems Administration initiative to evolve all product administration under a common, standards-based systems administration approach.





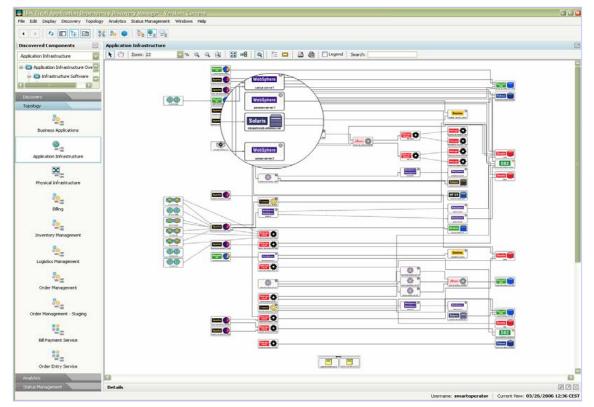
- Decreases training and required skills needed for the day-to-day management of IT
- Standardizes leading selfmanaging capabilities across IBM IT solutions
- Reduces IT operations and management costs

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Discovery of infrastructure components and applications

- Visibility of assets (CI's)
- Relationships between components



Tivoli Application Dependency Discovery Manager (TADDM)





### Discovery of infrastructure components and applications

- Visibility of assets is crucial
- Relationships between components
- Deep configuration details

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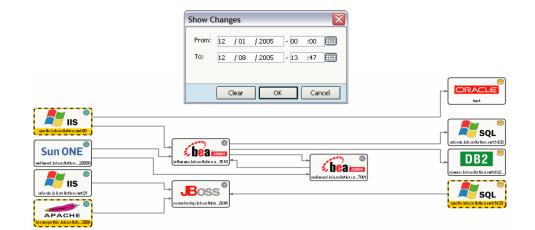


Discovery of infrastructure components and applications

- Visibility of assets is crucial
- Relationships between components
- Deep configuration details
- Change detection and reporting

80% of service outages are caused by CHANGE Gartner

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### Discovery of infrastructure components and applications

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- Visibility of assets is crucial
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- Change detection and reporting
- Comparisons against standards

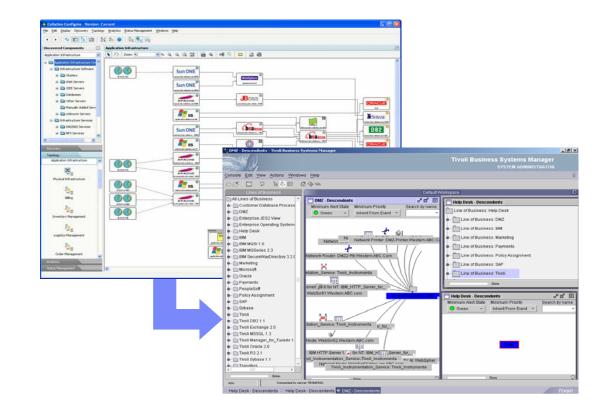
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Discovery	_	File Systems			-	
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		Product Name	Apache/1.3.26 (Unix)		Apache/1.3.27 (Unix)	
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Component Comparison		Containers				
		Config Contents				
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888 <u>0</u>		Name Name	washington.lab.company.net	california.lab.company.net	illinois.lab.company.net	
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### Discovery of infrastructure components and applications

- Visibility of assets is crucial
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- Deep configuration details
- Change detection and reporting
- Comparisons against standards
- Populates CCMDB and Business Service Views





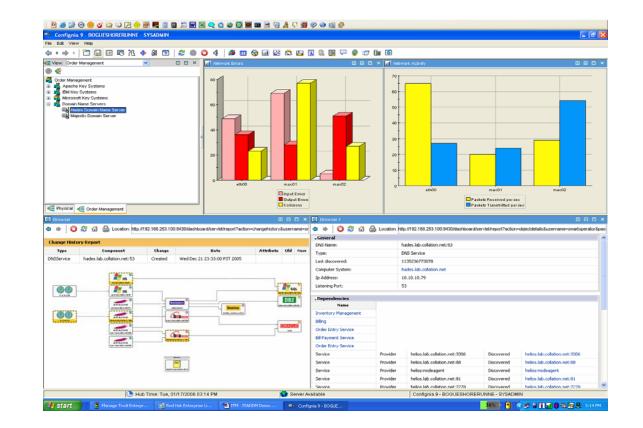
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### Discovery of infrastructure components and applications

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25

 Use inside TEP and launch in context from CCMDB

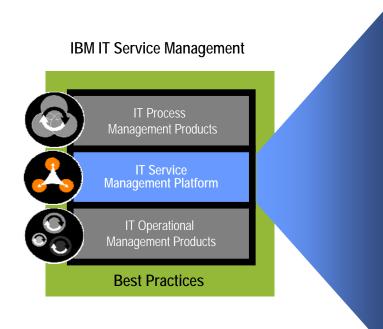




DB2.

### Take Back Control with IBM IT Service Management

IBM Service Management - An Open, Standards-Based Configuration Platform based on proven IBM technology



### **Configuration Management Database**

Tivoli

Open, federated model – shares data across silos

WebSphere\_

- Proactively manages data currency and accuracy
- Centralized, authoritative source of data

### Workflow Engine

collation.

- Improves collaboration and process automation
- Process modeling and simulation
- Change and Configuration Management included
- Real-time monitoring and reporting

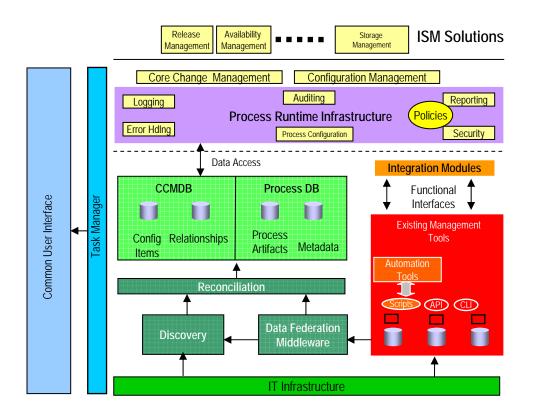
### **Policy Integration**

 Enforces compliance with internal and regulatory requirements

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# Take Back Control with IBM Service Management CMDB or Not?



### A true CMDB needs to:

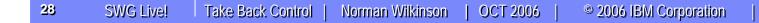
- Rationalize the same instance of a Configuration Item (CI) or component that might come into the CMDB from multiple sources
- Bring multiple data sources into a coalesced view that represents relationships across components
- Use approved changes for updates and identify changes that are not approved
- Illustrate logically or physically the peer-to-peer and hierarchical relationships between CIs

Source: Gartner report "CMDB or Configuration Database: Know the Difference" 13 March 2006



### CCMDB – Why it is different

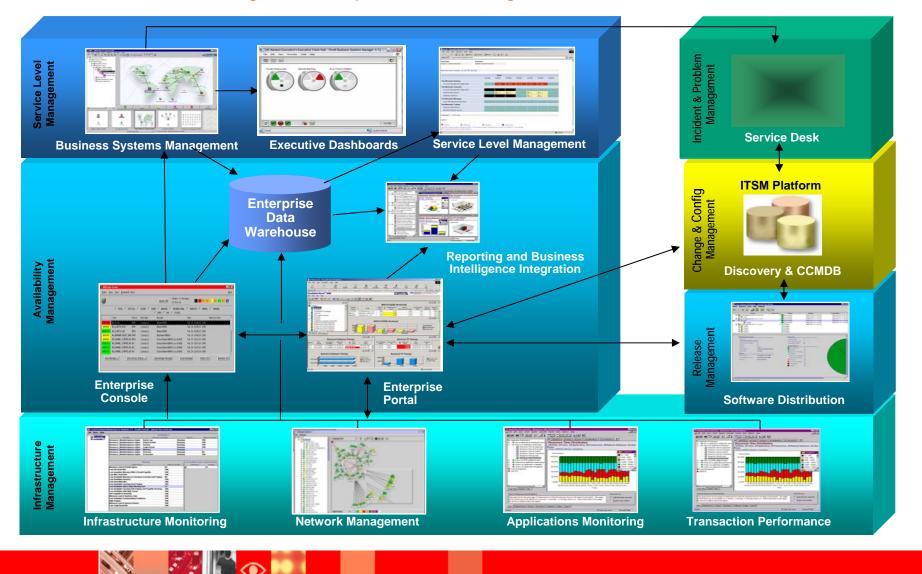
	Service Desk or CDB	Standard CMDB	Tivoli CCMDB
Incident and Problem Tracking	$\checkmark$		
Logging of Known Errors	$\checkmark$		
Escalations	$\checkmark$		
Resource and Relationship Auto-discovery		$\checkmark$	$\checkmark$
Resource Reconciliation		$\checkmark$	$\checkmark$
Data Federation		$\checkmark$	$\checkmark$
Data Synchronization		$\checkmark$	$\checkmark$
Operational Management Product Integration		$\checkmark$	$\checkmark$
Change History		$\checkmark$	$\checkmark$
Out-of-the-Box Reports		$\checkmark$	$\checkmark$
Process and CI Relationships			$\checkmark$
Accurate Change and Configuration Management			$\checkmark$
Standards-Based Process Modeling / Runtime			$\checkmark$
Automated Policy Enforcement Through Process			$\checkmark$
Standards-Based APIs for Application Interface			$\checkmark$
Process Aggregation and Bottleneck Analysis			$\checkmark$
Highly Available CMDB			$\checkmark$
Tooling			$\checkmark$



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### Phase 2: Service Aware Management – Operational Management Products

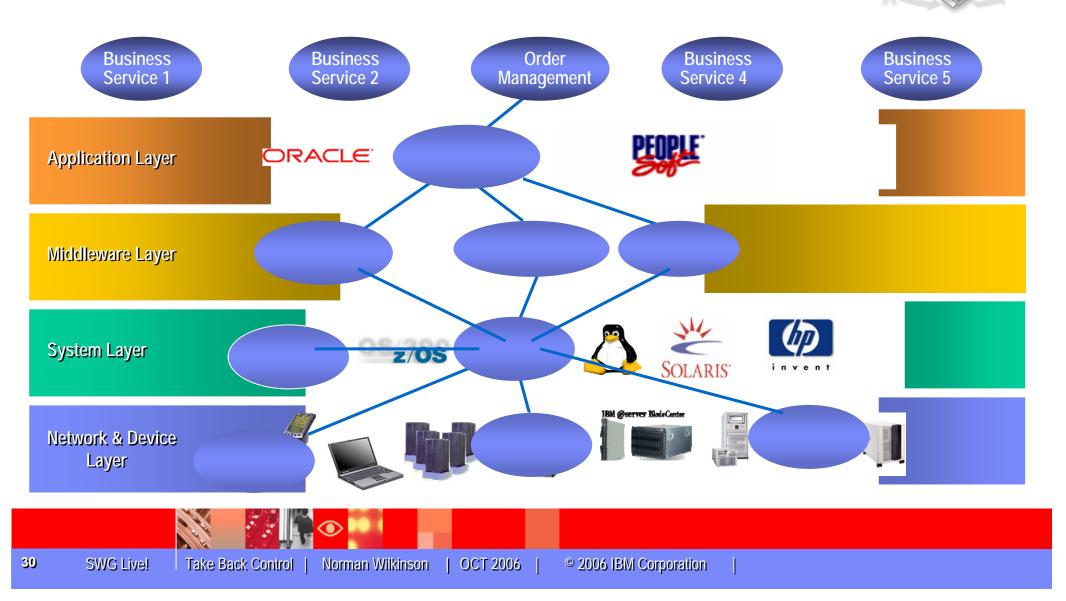




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### Aligning IT to the Business – the vertical stack





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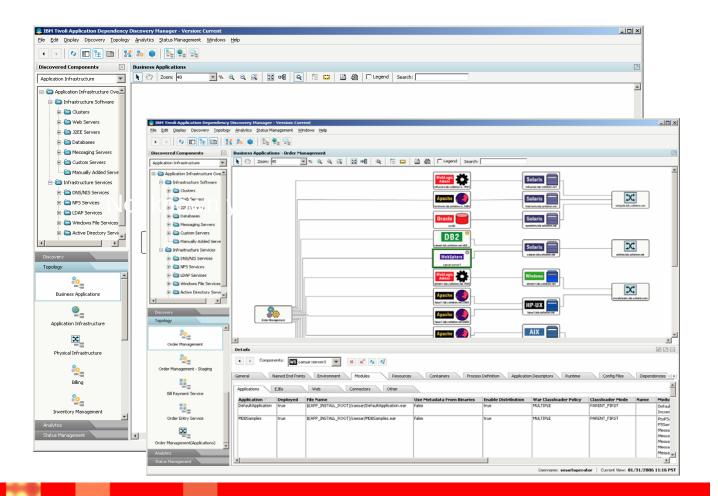
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Discovery of infrastructure components and applications

- Visibility of application composition – software and hardware
- Dependencies and relationships

31

 Enables views of business services to be dynamically maintained





### Aligning IT to the Business – Understand Business Impact

	owntime % nin : secs)	Availability
Microsoft IIS Server	0:00	100.000
Microsoft SQL Server	4:32	99.990
Microsoft Windows Server	7:54	99.982
Lotus Domino AIX Server	6:00	99.986
IBM AIX MQ Server	0:00	100.000
Apache Web Server	8:64	99.980
HP Procure Switch	69:12	99.840
CISCO Switch	9:88	99.977
Composite Effect/ User Experience	105.50	99.750

Order Management – Statistics for 1 month (SLA Threshold is 99.9% availability)



Business Perspective



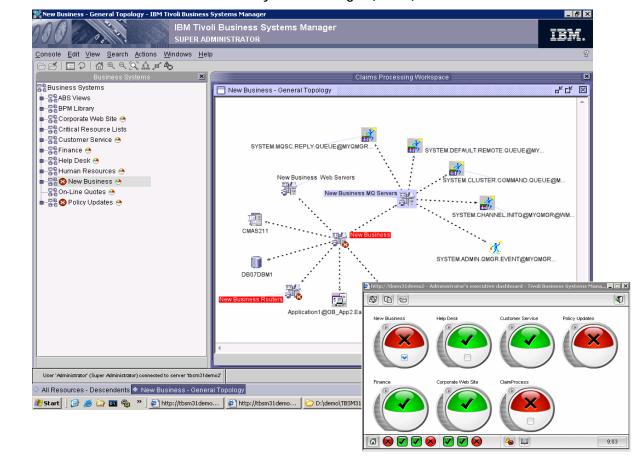
"The business cannot sustain these outages"





Aligning IT to the Business – Service Views

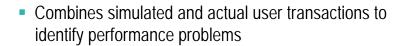
- Visualize problem alerting by Business Service
- Real-time business impact management
- Link with Service Level Management tools
- Manage Trouble Tickets and links with Service Desk function
- Move from Reactive to Proactive
- Executive Service Dashboards



### Tivoli Business Systems Manager (TBSM)

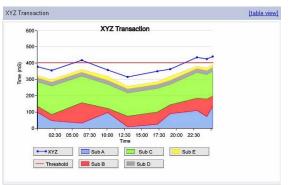


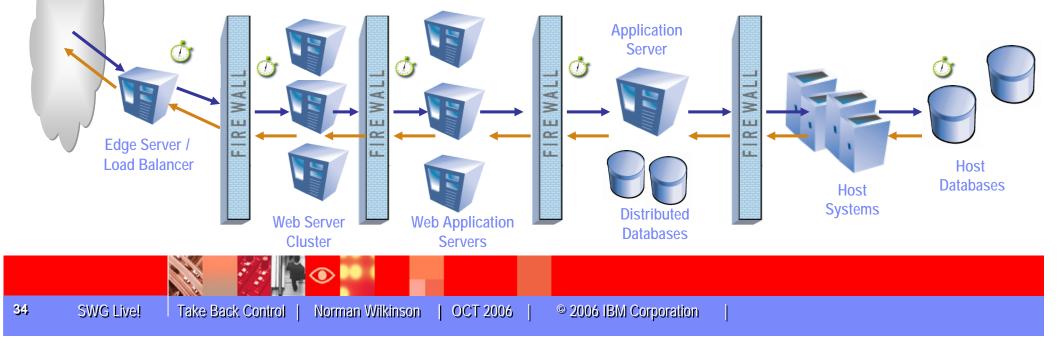
Understand and manage the customer experience



- Application instrumentation enables decomposition of problem transactions to assess impact from IT component response time
- Integrates with Tivoli Monitoring Health Console for fast root cause analysis

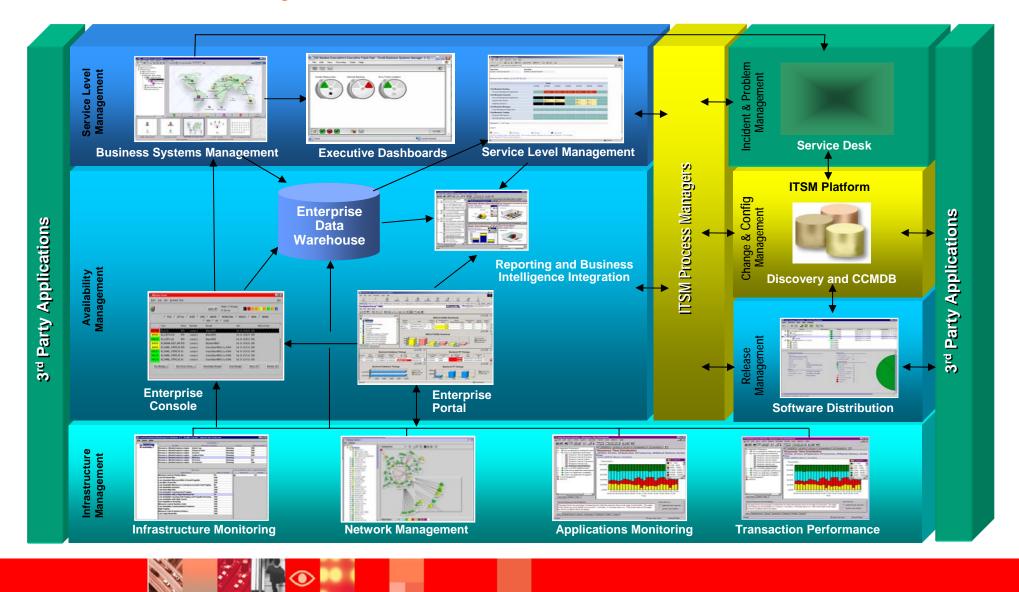
### Tivoli CAM for Response Time Tracking







### Phase 3: IBM Service Management – Process Automation



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Service Management Process Automation – What to do?



# Information Technology Infrastructure Library

ITIL is a suite of publications that define a set of process based best practices for managing complex IT environments. They are applicable to all IT organizations. ITIL is the world's most widely accepted approach to IT Service Management.

# **ITIL Goals:**

- Align IT services with the current and future needs of the business and its customers
- Improve the quality of the IT service delivered
- Reduce the long term cost of service provision

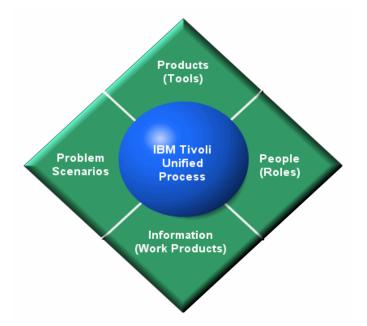


### ITIL publication set

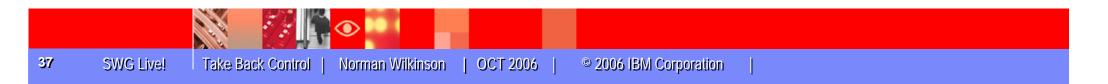
Service Management Process Automation – How to do it

### IBM Tivoli Unified Process (ITUP) and ITUP Composer

- Detailed diagrams and descriptions of IT Service Management processes
- · Based on industry best practices
- A complete, cohesive process model:
   IBM Process Reference Model for IT (PRM-IT)
- Strongly aligned to ITIL and can be mapped to other process models such as CoBIT, eTOM, Six Sigma, CMMI, ISO 17799
- Web-based Tools Mentor



# Makes ITIL Actionable!



### Service Management Process Automation – ITUP



### Walkthrough Scenarios

Analyze impacts Automated provisioning of storage Automatic response to outage **Base-lining applications** Consolidate licenses Ensuring back-ups Manage software compliance New availability requirements Order entry slows down **Prioritizing incidents** Provisioning a laptop Resolving slow response on a SOA app Rolling out software Running an IT Service SLA for a new application User needs access.....

### Release, App Release, Conf. People Release, Sys App Developers. Developers. Release, Web Release Release Admin, Ops. Release Web Engineers, Web Engineers, Engineers, Manager Manager Config, Web Manager 8 Sys Admin, Sys Admin, Svs Admin Engineers Event, Ops Event, Ops Roles Release Release Release Release Release Release Release Manage Tester Assignee Distributor Manager Assigne ommunicat Process Evaluate Communicate Design and Build B Distribute and Release Plan Release Accept Release Plan Rollout Prepare, and Release Install Release Management Workflow Train for Release Performance Information Request for Change Release Release Release Release Implemented 스망 Roll-out Plan Release Package Package ommunications Evaluation Workproducts Release Plan and Definition Technology **IBM Tivoli** IBM Tivoli **IBM Tivoli** IBM Tholi Configuration Configuration Configuration **IBM Tivoli** Configuration IBM Tivoli **IBM Tivoli** Т Manager, IBM Manager, IBM Manager, IBM Configuration Manager, IBM Configuration Configuration Tivoli Tivoli Throit Tools Manager **Tivoli** Enterprise Manager Manager Provisioning Provisioning Provisioning Console Manager Manager Manager

### Release Management Example

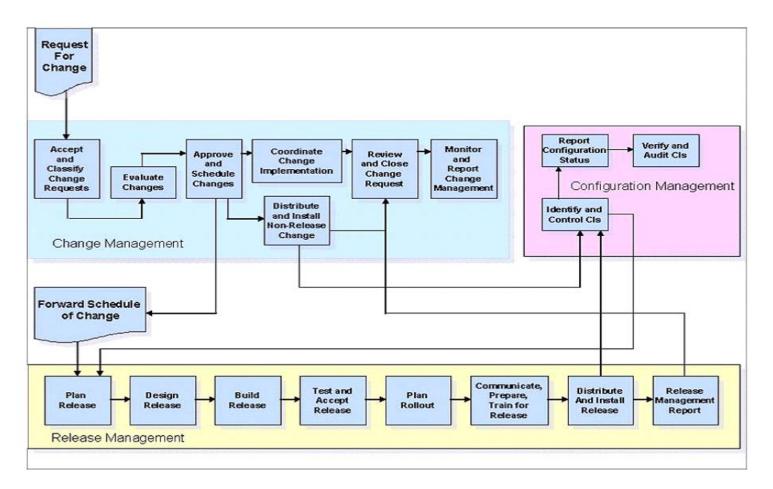
Free Download: http://www-306.ibm.com/software/tivoli/features/it-serv-mgmt/itup/overview.html

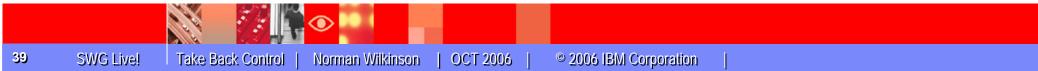
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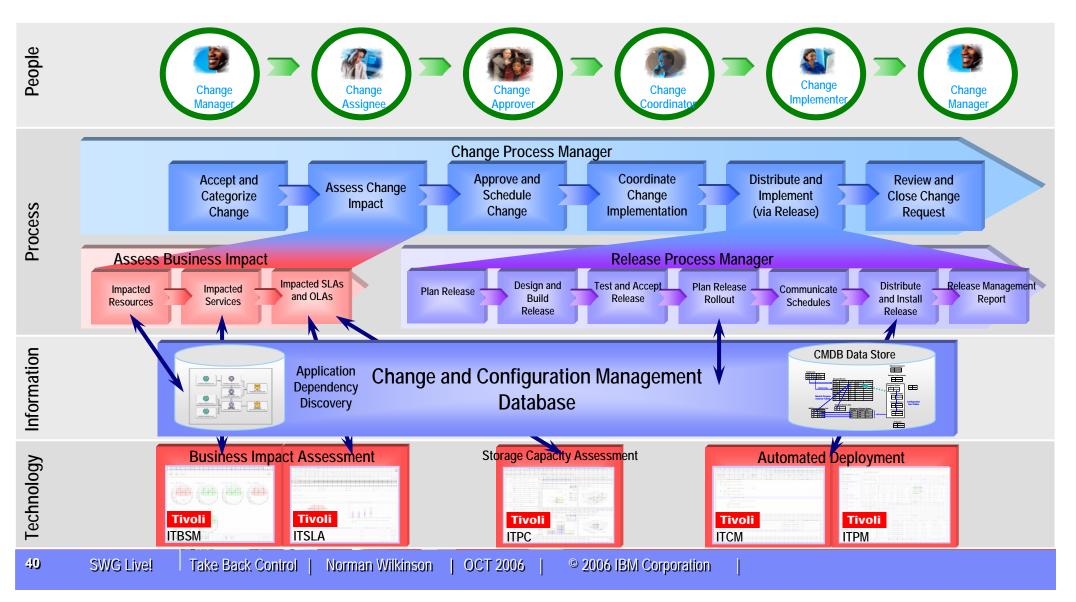
### Phase 3: Service Management Process Automation





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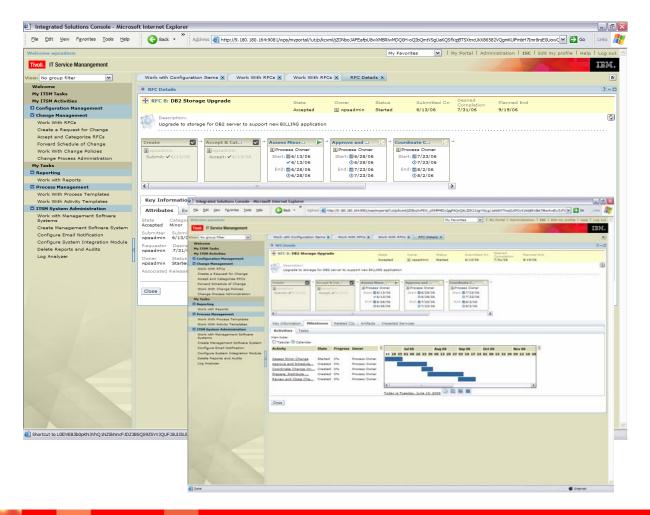
### Phase 3: Service Management Process Automation





Phase 3: Service Management Process Automation

- Change Management
- Configuration Management
- Release Management
- Availability Management
- Storage Management
- Capacity Management
- Workload Management
- Service Level Management
- Asset Management
- Security Management
- Service Continuity Management





### ISM Process Managers Build Business Value of IT

- Common (ISC) portal interface
- Role-based
- Automated workflow
- Manage CI's effectively
- Discovery auto feeds
- ITIL, ITUP, Custom Process templates invoked according to parameters
- Enforces process discipline
- Integrated with CCMDB
- ITIL processes aligned to technology

Integrated Solutions Console - Micro	soft Internet Explorer	-)[2
File Edit View Favorites Tools Help	S Back * 🖞 Address 💩 http://9.180.180.164:9081/wps/myportal/lut/p/kcom//04_SJ95P/kssy0xPLMnMz0/M0Y_QjzIMQADE0NvLxfLQD9HL4KQR3HzAyfDMBOQen4g3HjU_11EG3AhNxBA 🗹 🛃 60 🛛	nks
Nelcome wpsadmin	My Favorites 💌   My Portal   Administration   ISC   Edit my profile   Help   L	og out
Tivoli. IT Service Manangement		BM.
iew: No group filter 💌	Work with Configuration Items X Work with Reports X Create a Request for Change X	Б
Welcome	Create RFC	?
My ITSM Tasks My ITSM Activities	Description:	
Configuration Management	Fill out the fields below and click the submit button to create/edit a request for change.	
Change Management	5	• • • •
Work With RFCs		
Create a Request for Change	Create/Edit Request For Change(RFC)	
Accept and Categorize RFCs		
Forward Schedule of Change	edroup etrope Generic Changes ♥ ⑦ Generic Minor Change ♥ ⑦	
Work With Change Policies		
Change Process Administration	+ Trite	
My Tasks	DB2 Storage upgrade	
Reporting	Description of Change Upgrade to storage for DB2 server to support new BILLING application	
Work with Reports		
Process Management	*Requester *Desired completion	
Work With Process Templates	wpsadmin Change	
Work With Activity Templates ITSM System Administration	*Category Quoe 2006 V	
Work with Management Software	Select One ↔ ♥ ⑦ Sun Mon Tue Wed Thu Fri Sat	
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Configure System Integration Module	List of Extended Attributes for the Selected Rfc Type 11 12 13 14 15 16 17	
Delete Reports and Audits	Let of Extended Atheutes for the Selected Att Type	
Log Analyzer		
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Focus on initiatives that deliver value *today* and contribute to the 'Big Picture'

### **Top-Down Approach**

- Strategically driven as a major Service Improvement Programme
- Broad front of attack
- Culture changing with enterprise impact
- Time-to-Value is slow

### **Bottom-Up Approach**

- · Tactically driven but strategically aligned
- Vertical Stack approach
- Specific focus on 1 2 critical business services
- Prototype then replicate to other business services
- Time-to-Value is fast

### ITSM Workshop

### Focus on 1 business service

- Build knowledge of Infrastructure
- Discovery and Inventory
- Define critical business service
- Assess tools utilization fill gaps
- Avoid 'Rip & Replace'
- Vertical Stack Approach
- Provide Quick Wins
- Stay aligned to the big picture

Scope & Complexity





44

SWG Live!

Norman Wilkinson | OCT 2006 |





# "Take Back Control"

# **IBM Service Management**

A better way to manage the business of IT













