

Achieving Service Excellence through IBM Service Management

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Businesses are Under Pressure to Innovate and Grow



Competitive Advantage through Service Excellence

 Need to retain and add new customers through quality and value add services

Operational Efficiency and Effectiveness

- Cost Containment
- Reduce the risk of security exposure
- Greater regulatory and audit requirements

Business Growth

 Financial performance & market share growth expectations from investors

Business Depends on Quality Service Delivery



Delivering High-Quality, Cost-Effective Services is Challenging

- Growing Complexity: Disparate technologies and service infrastructures
- Rapid, Constant Change: Industry consolidation, technology convergence
- Rising Costs: Process inefficiencies, administration, maintenance
- Tougher Compliance: Added security, audit and governance requirements
- Lack of Service Context: Silos of people, process, technology, information

Obstacles to Innovation





Business and Infrastructure Silos Must be Bridged





Integrating People, Process, Information & Technology: Learning from the Benefits and Challenges of ERP



	ERP of rallenges
Creates efficient organization by integrating individual teams and their work	Costly and time intensive to customize rigid, inflexible processes
 Automates process to enforce consistent execution 	Costly to integrate existing applications into proprietary ERP data and process model



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



Best-of-Breed Operational Management

Broadest technology support spanning:

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

Deepest management capabilities, including:

- Network and event management
- Availability and performance management
- Storage and security management
- Extensive support for 3rd party products

Role-based visualization and control

Automation of tasks, workflows and processes

Open, standards-based products and tools

Built-in self-managing autonomic capabilities

"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 IIsan Hospital will continue to strive for efficient management of IT infrastructure to support advanced medical digitalization." --- SungJik Jung, medical information team leader for NHIC IIsan Hospital

Integrated Service Management Platform

Integrated visibility and control across people, process, technology and information domains

- **IBM Service Management Platform Delivers:**

 - Customizable web-based visualization
 - Open and standards based, built on SOA
 - Trusted source of information
 - Decision making and policy-based
 - Enforce policies to better address compliance with internal and regulatory requirements
 - Automated discovery and impact analysis spanning
 - Built-in self-managing autonomic technologies

"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 Process Management

Enables increased team performance, coordination and collaboration

Automated workflows and process management:

- Consistent process execution
- Based on robust process best practices
- Role-based visualization and control
- Integration of IBM and third-party operational management tools into and across IT and business processes
- Enforce and audit change and compliance

"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 Mgr, Network and IT Monitoring, Belgacom

IT Process Managers Bridge Organizational Silos

Change and Configuration Management Database

*Change and Configuration Management is included in the Change and Configuration Management Database product

Available in June 2006!

Available in 2H 2006!

Future Directions

Acquisitions Fill Strategic Gaps and Contribute to Growth

Change and Configuration Management

Network Management

Performance Monitoring

Automated Provisioning

Management Composite Application

Software Asset Mgmt

Software Usage Metering

IT Asset Management

An Innovative Approach to Implementing Best Practices

Proven methods tested in real-world environments

Modular approach for incremental execution and values through:

- World-class 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 and other process models
- IBM Service Management Partner Ecosystem
- Open Process Automation Library (OPAL)

"Toshiba Solutions Corporation, the IT solutions company in Toshiba Group, 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

Innovative Process Model - IBM Tivoli Unified Process

- IBM Tivoli Unified Process (ITUP) is a free, read only knowledgebase that describes IT Service Management processes and offers guidance on industry best practices and tools that help automate processes and tasks.
- **ITUP Composer** is the product version of ITUP which contains a content library that can be customized, extended, and then published with the tools included in the product.

IBM Service Management

IBM Service Management Partner Ecosystem

- Based on open standards, extending the value of IBM Service Management and translating into a high level of confidence for our customers in their ISM investment
- A true partnership involving close cooperation, and responsibilities that demonstrate a deep and long-term commitment toward delivering customer value

"The joint IBM Service Management and BDNA solution addresses a critical need of IT organizations striving to optimize their infrastructure and improving the quality of service by creating and maintaining an immediately accessible deep inventory of all IP-based IT and healthcare assets in a single CMDB." --- David Watson, Senior VP and CTO, Kaiser Permanente

IBM Service Management Adoption Model

- An innovative step-by-step roadmap to improved service management
- Current state and desired future state mapping
- Provides a consistent IBM approach for recommending products and services that actually best address clients needs

Identify Target State

Identify prerequisites and dependencies

IBM offering roadmaps

"The magic happens when technology and process combine through integrated planning, dialog and implementation. The IBM adoption model methodology provides a practical approach for bridging technology adoption with processes requirements in real world organizational environments." --- Dennis Drogseth, Vice President, Enterprise Management Associates

IBM Service Management Provides On-Ramps for Life-Cycle Management and Business Process Management

Lifecycle Management

- Integrate across build, run, and manage phases
- Improve service performance and customer satisfaction
 Reduce maintenance costs and problem resolution time

Business Process Management

- Gain a holistic view of business performance
- Integrated business key process indicators with related key process indicators
- Create role-based dashboards for business, operations and IT users

Take the Next Steps Now!

For more information:

- Visit www.ibm.com/itsm for more information
- Register and use the IBM Tivoli Unified Process Tool
- Contact your IBM Representative

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Tivoli. software

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Casos de Estudio

Félix Merchán Arellano Director IBM Tivoli Software Spain, Portugal, Grecia, Israel y Turquía

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PREMIER BUSINESS ASSURANCE MONITORING WITH NETCOOL®

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- I Introduction to Cetelem
- II Business Objectives
- III Netcool Solution Selected
- **IV** Business Benefits Experienced

Cetelem's mission

- > Cetelem: The group
 - > Number One for consumer credit in Euro Zone
 - > A subsidiary of the BNP Paribas
 - > Already established in 20 countries and with nearly 60% of its associates outside France
 - > The European specialist of credit cards proposing standard loan, affinity, or co-branded cards
- > Cetelem's mission
 - > To offer consumer credit and associated financial services to consumers
 - > To make credit into a modern tool that can be used sensibly to manage household consumption and budgets
- > Cetelem's specialities
 - > In-store credit: products adjusted to retailer requirements
 - > multi-brand (Aurore) and pure brand cards (Carrefour, Ikea)
 - > dedicated credit suited to specialist market (furniture or home improvement)
 - > financing private vehicles to customers at concessions
 - > Instant credit:
 - > range of products to private individuals through its network of branches, phone and the Internet
 - > Partnership:
 - > close links with major traditional retailers and with Internet commerce
 - > Expertise:

Copyright © 2004 Micromability torights a network for issuing and receiving cards and managing partnership

Context

- > IT management context
 - > Supervision segmented by technology
 - > The applications are increasingly transversal
 - > Trouble shooting time are mostly due to problem RCA
- Need for an End-to-End supervision of applications' performance and availability with technical overview in a single point for Business Service Monitoring
 - > To increase the reaction time by shunting the incidents
 - > To Prevent and to anticipate the customers calls
- > Need to implement a « hypervision » platform
 - > Handled by the IT exploitation team
 - > Intended to improve the process of management of the incidents
 - Intended to increase the quality of the service rendered to customers and partners
 - > Project included in a global ITIL process
 - > The solution should allow problem detection, centralisation, consolidation and prioritise events in order to initiate escalation on 3 support levels:

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Cetelem's Project - Step #1

- > Step#1 Proof of Concept to select the right solution
 - > Focused on a strategic application in a production context
 - > 1st retailer in Europe, re-branded web based consumer credit application
 - > Selected 2 competitors who had to take into account the whole IT infrastructure and application
 - > POC implemented on 3 weeks by a 3 engineer team
- > Netcool/Solution outstanding points
 - > Speed of implementation and ease of use
 - > Ability to manage the entire technical infrastructure
 - > **Provide Business KPIs** (app logs parsing and simulation robots)
 - > Modeling of application processes
 - > Provide dedicated interfaces for each Cetelem population
 - > Provide associated reporting
 - > Integrate existing solutions
- Copyright © 2004 Millimteract rwitter Ter. reference frames

Netcool selected modules

- > Netcool/OMNIbus
- > Netcool/Impact
- > Netcool/Webtop
- > Netcool/RAD
- > Netcool/ISM (WAM/HTTP/ICMP)

Applications

App Logs

IP Services

System

Network

Security

Mainframe

 Netcool for Security Management (FW and IDS)

Cetelem's Project - Step #2

- Step#2 Implementation of the production platform
 - > Re-use of the POC components
 - > Fully implemented in 3 months by a 2-engineer team
- > Implementation of a realtime solution capable of:
 - > Handling and providing technical indicators on availability and performance weakness of infrastructure components
 - > Providing aggregated events on security threats
 - > Providing functional and business indicators on critical applications
 - > Being technically integrated with existing managers and tools already used by operations
 - > Using generic event management and categorisation rules by interacting with reference frames
 - > Providing several types of statistical reports on application availability and response time for different populations (Business Intelligence)
 - > Management committee
 - > IT coordination
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The Netcool Solution

Example of Internet Application Supervision Internet Public application / e-Commerce

Some Interface Examples Level #1 – Operational Supervision Center

Some Interface Examples Level #1 – Operational Supervision Centre

Some Interface Examples Level #2 – Security Expert view

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Some Interface Examples Level #3 – Executive Functional view

Business Benefits

- > Global overview of the IT infrastructure & Business Service monitoring
 - > Critical applications' availability & performance
 - > System performance
 - > Mainframe and Security alerts
 - > Network outages
 - > IP services KPI's
- > Integrate with existing solutions for TCO reduction
 - > BMC PATROL
 - > NetView OS390 / Netview 6000
 - > Cisco Works
 - > FW1 NG manager
 - > System Automation
 - > Open Source and dedicated applications

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Business Benefits

- > A new solution for a new organisation
 - Mainframe operators became level#1 operational supervision center for the global IT structure (network, system & mainframe)
 - > Both Level#1 and Level#2 use the same solution to reduce training and support costs
 - > Mean-time-to-repair reduction on critical applications
 - > Enable effective business and operational decisions
- > Future proof solution in ITIL process
 - > the current platform could be supplemented for :
 - > Advanced monitoring of VoIP services (NfVoIP)
 - > Advanced Risk management (NfSM)
 - > Asset management (NfAM)
 - > Trouble Ticketing and CRM System interaction (Gateways)

> Datawharehouse and Reporting (RDBMS Gateways)
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Moving service monitoring up the value chain

Our scale and technical excellence

- Operating one of the largest intranets in Europe with over 100,000 users
- Managing one of the largest single implementation of Microsoft Outlook handling 35 million e-mails a month
- 6750 Unix and NT servers utilising 630 terabytes of live data.
- Supporting the 200+ external hosting customers

Moving service monitoring up the value chain

Visit www.ibm.com/itsm© British Telecommunications plc, 2003

Service monitoring

Visit www.ibm.com/itsm© British Telecommunications plc, 2003

Building service view

Service source data

- ISM's and components via probes
 - Network
 - Systems
 - Performance
 - Environmental
 - Security
- Service visualisation
 - SLAM

Service monitoring

Building service monitoring

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Business process monitoring

- Monitoring business transactions
 - Source data
 - Databases (via Impact) & log files (via probes)
 - Visualisation
 - SLAM

Business process monitoring

Example of Service Assurance for Telco End-to-end VoIP Path View

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BT Global Services: Incident Management for IPT services

Return on Investment Case Study T-Mobile: Pan-EMEA Master Service Management Centre

Business Goal

- Provide a standardised service management approach for the operations in 5 countries (Service Management Centres)
- Correlate data from each SMC to focus on critical customers SLAs
 - Improve customer satisfaction
 - Improve service uptime
 - Reduce customer churn
- Increase competitive edge by being able to support delivery of new services quickly

Netcool[™] Solution

- Netcool implemented in 5 countries (SMC), and consolidated at MSMC as Manager-of-Manager
 - Service view & Performance Measurements
 - Planned work schedules
 - Critical real-time service escalations
 - Knowledge repository
 - Global Trouble Ticketing
 - Centralised reporting
 - Built-in High Availability
- Supports equipments from Nortel, Ericsson, Nokia, Siemens, Cisco, Comverse, ..., etc
 - GSM RAN & Backbone
 - UMTS RAN & Backbone
 - IP & ATM
 -

Return on Investment

- > MSMC & 5 SMCs were deployed in less than 6 months
- > Single view of the entire operations, enabling
 - Fast detection, isolation & resolution of national & international service problems
 - Measure & monitor KPIs
 - Centralised reporting
- > Information available to users anytime, anywhere
 - Ability to support major events such as Tradeshow or Sports (E.g. Euro 2004)
- > Increase investors' & analysts' confidence
 - A Centre of Excellence showcase to demonstrate the company's ability to achieve its growth targets.

IBM Service Management

Maintaining high availability and performance of the trading applications is extremely critical. A minute of application downtime would cause the company a loss of \$300K.

The support staff need to be notified and resolve the problem rapidly – before it affects the trader.

Business Goals: Front-to-back view of critical business functions

- Global event management
- Increase the ability to report on key infrastructure metrics
- Total cost, overall health (up/down), capacity, performance
- Decrease Mean-Time-To-Discover (MTTD) & Mean-Time-To-Repair (MTTR)
- Leverage functionality of installed tools and management systems
- Faster notification of business stream owners when a status-affecting event occurs

Netcool Solutions : Centralised view of mission-critical apps

- Centralized view of mission-critical apps and infrastructure of 6 regional centers Americas / Europe / Asia. Network Servers, Database, Applications & Messaging
- Solves scale problem: +600 Applications, 8000 servers 8500 Databases, +2000 Layer 2/3 routers and switches, 1000's of users served
- 24 x 7 availability, Fully fault tolerant

Visit www.ibm.com/itsReduced 50 millions raw alarms to 12,000 a day Corporation

IBM Service Management

WBS

Either Graphical or direct to Alerts

Launch screens decoupled from controller

Enables multiple views open on support screen

'floating' controller Minimal usage of valuable screen space

Immediate split between App. & Infra. alerts

Micromuse usage on Trading floor

Si le Stock

Business Goal:

Deliver & measure customers access "anytime, anywhere" to 11 service "channels

4M transactions / day
60+ banking systems
15 EMS1250+ servers
5 Tandems
5 Mainframes
50,000+ network nodes
3200+ retail stores
6000+ ATMs

•Net Minus 30 Bank delivered a business and IT solution for their ATM infrastructure within 6 weeks. At the end of this they were able to predict a mainframe outage 30 minutes before it impacted their first customer

Overall Channel Health														
	ATM	Internet	Mortgage	Equity	PCS	Phone	Retail	WFSC Ops	Financial	Wholesale	Batch	Online	Email	

IBM Software Group

IBM Software Expo

AGENCIA TRIBUTARIA

Natalia Escobedo López

@business on demand software

IBM Software Group

Descripción de la Solución

El objetivo fue hacer posible la transformación de la actual visión de comportamiento de componentes en visión de comportamiento de servicios, instalarlas conforme a los procedimientos de instalación establecidos en el DIT, adaptarlas al entorno tecnológico existente y realizar su completa puesta en producción.

N Sistema de Gestión de Servicios

• Pasado

• Presente

Misión:

 "Primer nivel de control de los RECURSOS de la infraestructura informática del DIT"

Funciones (desde el punto de vista de los recursos):

- monitorización de disponibilidad y rendimiento
- registro y control de incidencias y cambios
- atención de problemas de primer nivel

\checkmark Gestión Servicios \rightarrow presente

La complejidad de la infraestructura en cuanto al nº de componentes y dependencias y el volumen de actividad → control integrado y automatizado

Monitorización de servicios → controlar el comportamiento de los sistemas de información del DIT desde el punto de vista de los SERVICIOS informáticos que se prestan proporcionando:

- punto focal de monitorización
- representación gráfica de servicios (no sólo de recursos)
- análisis de impacto ante paradas planificadas y no planificadas

V Presente: cambios realizados

- Sala de Control
 - Antes de TBSM:
 - Areas temáticas
 - Sin vista resumen

Después:

- Videowall
- Herramientas de Monitorización

Sala de Operación - Antes

Departamento Informática Tributaria

Control "Niveles Servicio"-Antes

Departamento Informática Tributaria

Después - Sala Operación

Departamento Informática Tributaria

Videowall

W Herramientas de monitorización

- Orientadas al recurso (heredadas)
 - sistemas
 - comunicaciones
 - Internet
- Orientadas al servicio (nueva)
 - TBSM

IBM.

Monitorización recursos vs Monitorización servicios (I)

– Visión de recursos

• Base de datos, transacción, línea comunicaciones...

- Punto de vista técnico

• "no funciona el recurso CICS05P"

- Visión de servicios
 - Borrador, Aduanas, Panel ...

- Punto de vista de usuario

• "problemas con el servicio Subastas..."

Monitorización recursos vs Monitorización servicios (II)

Métricas técnicas

(distintas a las del usuario)

- consumo de procesador
- % ocupación de las líneas

- Métricas de usuario

(mismas métricas para técnicos y usuarios)

- % disponibilidad del servicio
- tiempo de respuesta

- Análisis de impacto a posteriori

- análisis reactivo de impacto de cambios
- evaluación *diferida* ante indisponibilidad de recursos

- Análisis de impacto a priori

- análisis predictivo de impacto de cambios
- evaluación *inmediata* ante indisponibilidad de recursos

Estado actual (TBSM)

- Visión de recursos y servicios
- Control de disponibilidad de servicios (suma de componentes):
 - Mejora en Disponibilidad y Rendimiento
 - Menores tiempos de indisponibilidad y más rápida identificación de la fuente de los problemas
 - Mejora del conocimiento sobre la disponibilidad de los Sistemas y de la productividad del personal
- Gestión de alertas de recursos
- Análisis de impacto en los servicios
 - Focalización en el análisis de los problemas críticos

Descripción de la Solución-TBSM Vista Jerárquica

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Network Region: SEMAFOROS	
SNA/APPN Network: ESHAC000	
Storage Complex: DISCOS_SYSPLEX_A	
WebSphere390: WebServer1	
Enterprise: NetView	
D-UU & IP Network: IP Internet:	
UU Solution Subnet: 10.30.136:NV	
Wetwork Subnet: 10.30.160:NV	
UUNetwork Subnet: 10.30.168.160:NV	
UNIT Subnet: 10.30.168:NV	
UUNetwork Subnet: 10.30.176:NV	
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Descripción de la Solución – TBSM Vista Hiperview

A Servicios Críticos

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& Campaña Renta

Take the Next Steps Now!

For more information:

- Visit www.ibm.com/itsm for more information
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- Contact your IBM Representative

