

MOF-微軟的ITIL實戰策略

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Agenda

- ISO 20000, ITIL and MOF 簡介
- ISO 20000, ITIL and MOF 之間的關係
- MOF V4 介紹
- MOF Job Aids, Solution Accelerators 及 Service
 Offering 介紹
- 總結

Service Management 服務管理

- ISO/IEC 20000-1:2005 條款 2.14
 - Management of services to meet the business requirement
- itSMF
 - Service Management is a set of specialized organization capabilities for providing value to customers in the form of services
 - The capabilities include all of the processes, methods, functions, roles and activities that a Service Provider uses to enable them to deliver services to their customers

ISO 20000 服務管理流程

Service Delivery Processes

Capacity Management

Service Continuity and Availability Management Service Level Management

Service Reporting

Control Processes

Configuration Management Change Management

Release Process

Release Management

Resolution Process

Incident Management

Problem Management

Information Security
Management

Budgeting and Accounting for IT Services

Relationship Processes

Business Relationship Management

Supplier Management

ITIL

- Information Technology Infrastructure Library
- ITIL 是 IT 服務管理 Best Practice 的 framework, 由英國的
 Office of Government Commerce (OGC) 開發而成, 廣為全
 球所使用
- 包含一系列的核心書籍,提供具品質的 IT 服務的指引
 - V1 Published between 1989 and 1995 (31 books)
 - V2 Published between 2000 and 2004 (11 books, 2 main books are Service Support and Delivery)
 - V3 Published in 2007 (5 core books)

ITIL ITIL V3 架構

Service Strategy (SS)

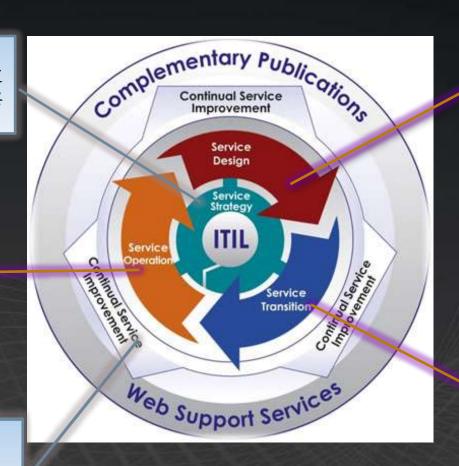
針對服務管理的建置定 義政策與策略, 同時與 企業的策略聯結

Service Operation (SO)

針對服務每天的執行 及其生命週期提供最 佳的支援

Continual Service Improvement (CSI)

每一階段服務的效能可被量 測以確認持續地符合企業的 需求



Service Design (SD)

描述如何使用策略來 產生服務的設計與規 格

Service Transition (ST)

如何將規格建立在實體環境中的細節

Source: OGC

MOF

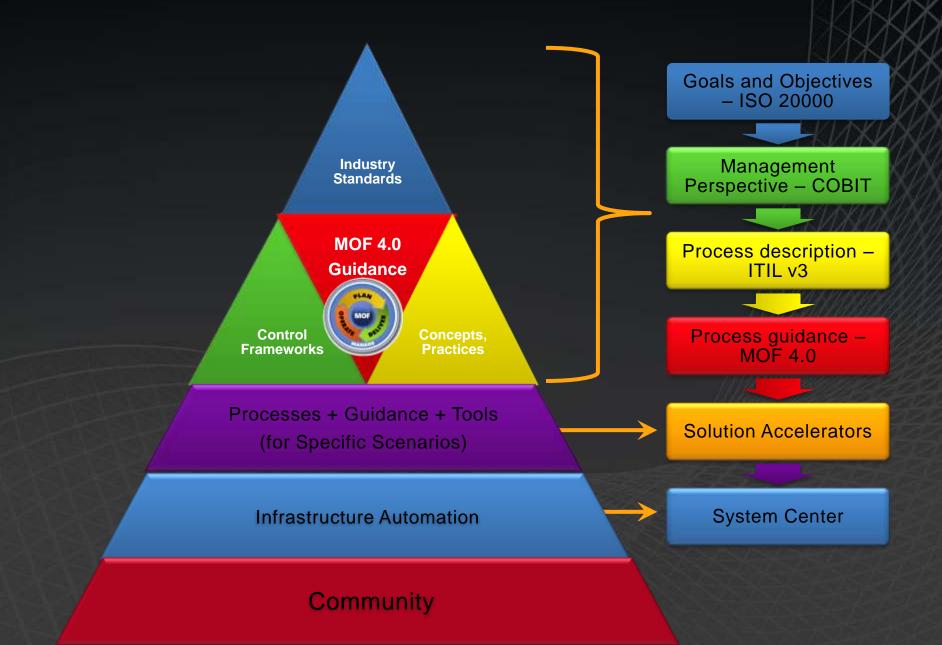
- Microsoft Operation Framework
- Microsoft 提出的產業 Best Practices, 涵蓋資料中心在管理上的原則, 程序及經過驗證的實作
 - 建構在 ITIL IT Infrastructure Library
 - 客戶與合作夥伴的經驗
- 一個提供專業化 IT 服務的方法論,且可立即運用在持續性服務改善的 framework
- 提供完整 IT 服務生命週期的指引(Guidance)
- 支援 ITIL, COBIT, and ISO 20000
- · MOF 指引包含
 - 白皮書
 - Service Management Function 手册(程序的描述)
 - 產品操作手冊
 - 解決方案服務

MOF 4.0

- 提供 IT 服務生命週期各階 段詳細的目標,活動以及權 責
 - Manage layer 提供各階段 (Plan, Deliver, 及 Operate) 的支援
- Service Management
 Functions (SMFs) 提供每個
 階段主要活動的細節
- 整合 Management Reviews到各階段



ISO 20000 與 ITIL, MOF的關係



ISO 20000 與 ITIL, MOF的關係

- ISO 20000 vs ITIL
- ISO 20000 vs MOF
- ITIL vs MOF

ISO 20000 與 ITIL, MOF的關係 ISO 20000 vs ITIL V3

ISO 20000	ITIL V3	
6. Service Delivery Processes		
6.1 Service Level Management	CSI 4.6 Service Level Management	
6.2 Service Reporting	CSI 4.2 Service Reporting	
6.3 Service Continuity and Availability Management	SD 4.4 Availability Management SD 4.5 IT Service Continuity Management (ITSCM)	
6.4 Budgeting and Accounting for IT Services	SS 5.1 IT Financial Management	
6.5 Capacity Management	SD 4.3 Capacity Management	
6.6 Information Security Management	SD 4.6 Information Security Management (ISM)	
7. Relationship Processes	18448666	
7.2 Business Relationship Management	SD 4.2.5.9 Developing Contacts and Relationships with the Business	
7.3 Supplier Management	SD 4.7 Supplier Management	
8. Resolution Processes		
8.2 Incident Management	SO 4.1 Event Management SO 4.2 Incident Management	
8.3 Problem Management	SO 4.4 Problem Management	
9. Control Processes		
9.1 Configuration Management	ST 4.3 Service Asset and Configuration Management	
9.2 Change Management	ST 4.2 Change Management	
10. Release Process		
10.1 Release Management	ST 4.4 Release and Deployment Management	

ISO 20000 與 ITIL, MOF的關係 ISO 20000 vs MOF

ISO 20000	MOFV4	
6. Service Delivery Processes	IKID	
6.1 Sevice Level Management	Plan: Business/ITAlignment.SMF	
	Plan Business/ITAlignment SMF	
62 Service Reporting	Operate: Service Monitoring and Control SMF	
63 Service Continuity and Availability	1/4/4/2	
Management	Plan: Reliability SMF	
6.4 Budgeting and Accounting for IT Services	Plan: Financial Management SMF	
6.5 Capacity Management	Plan: Reliability SMF	
6.6 Information Security Management	Plan: Reliability SMF, Policy SMF	
7. Relationship Processes	13300000	
7.2 Business Relationship Management	Plan: Business/ITAlignment SMF	
7.3 Supplier Management	Plan: Policy SMF	
8. Resolution Processes		
82 hoident Management	Operate: Oustomer Service SMF	
8.3 Problem Management	Operate: Problem Management SMF	
9. Control Processes		
9.1 Configuration Management	Manage: Change and Configuration SMF	
92ChangeManagement	Manage: Change and Configuration SMF	
10. Release Process		
10.1 Release Management	Deliver: Deploy SMF, Stabilize SMF	

ISO 20000 與 ITIL, MOF的關係 ITIL vs MOF



MOF 4.0

Connects service management concepts to practical tasks and activities

- Encompasses the entire IT service lifecycle
- Integrates governance, risk, and compliance
- Provides concise and meaningful guidance



MOF 4.0 is Designed to be Practical, Understandable, Concise

- Phases describe goals, activities, accountabilities
 - What should the phase accomplish?
 - What general objectives and controls should be considered?
 - Who is involved?
- Service Manage Functions, (SMFs) offer the details
 - SMFs map to major activities in phases
 - Focus on what to do and how
- Management Reviews are integrated in the phases
 - Provide checkpoints
 - Identify areas for improvement



Plan SMFs

The Plan Phase provides guidance on how to plan for and optimize an IT service strategy



Business/IT Alignment Includes:

- Define Service Strategy
- Identity and map IT Service
- Measure Demand
- Develop IT Service Portfolio
- Establish Service Level Management

Reliability Includes:

- Capacity Management
- Continuity Management
- Confidentiality Management
- Integrity Management
- Availability Management

Policy Includes:

- Security
- Privacy
- Appropriate Use
- Partner
- Asset Protection

Financial Management includes:

- •Establish service requirements and plan budget.
- •Manage finances.
- Perform IT accounting and reporting

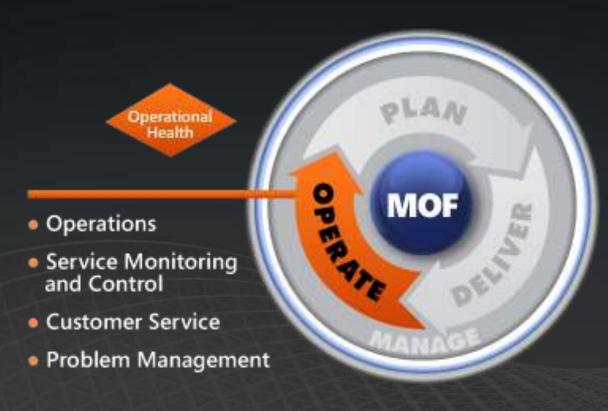
Deliver SMFs

The Deliver Phase helps IT professionals more effectively design and deliver IT services, infrastructure projects, or packaged product deployments.



Operate SMFs

The Operate Phase helps IT professionals efficiently operate, monitor, and support deployed services in line with agreed-to service level agreement (SLA) targets.



Customer Service Includes:

- Service Desk
- Incident Management

Manage SMFs

The Manage Layer establishes decision-making processes and the use of risk management, change management, and controls throughout the IT service lifecycle



Governance, Risk, and Compliance Includes:

- Establish IT governance.
- ·Assess, monitor, and control risk.
- Comply with directives

Change and Configuration Includes:

- •Manage changes.
- Know the current state of configuration at all times.
- •Reduce risk of negative impact from changes to the organization

Team Includes:

- •Understand the key principles for effectively organizing IT.
- •Understand accountabilities and role types.
- •Identify organizational changes needed.
- •Align responsibilities.
- Assign roles.

Management Reviews Drive Clarity

 Provide checkpoints and connections between phases

Ensure business
 objectives are being met
 and the service is on track



MOF Job Aids

- MOF Job Aids Plan.zip
- MOF Job Aids Deliver.zip
- MOF Job Aids Operate.zip
- MOF Job Aids Manage.zip

下載路徑

http://www.microsoft.com/downloads/detail s.aspx?familyid=457ED61D-27B8-49D1-BACA-B175E8F54C0C&displaylang=en



Solution Accelerators

SOLUTIONACCELERATORS Act faster, Go further,

- Microsoft Assessment and Planning
- SharePoint Capacity Planning Tool
- . Data Encryption Toolkit
- Windows Vista Security Guide

PLAN

- · Office Security Guide
- Windows Server 2008 Security Guide

DELIVER

- Microsoft Deployment Toolkit 2008
- Assessment and Deployment Solution
- Infrastructure Planning and Design Series
- External Collaboration Toolkit for SharePoint
- Upgrade Toolkit for Windows SharePoint Services Sites and Templates
- SharePoint Cross-site Configurator
- Data Encryption Toolkit
- Assessment and Deployment Solution

OPERATE

- Offline VM Servicing Tool
- Microsoft Forefront Integration Kit for Network Access Protection
- Security Compliance Management
- Network Monitoring Management Pack for System Center Essentials
- . SharePoint Monitoring Toolkit
- SharePoint Asset Inventory Tool
- Business Application SLA Reporting
- Malware Removal Starter Kit
- . Data Encryption Toolkit

MANAGE

SOLUTIONACCELERATORS

Act faster. Go further.

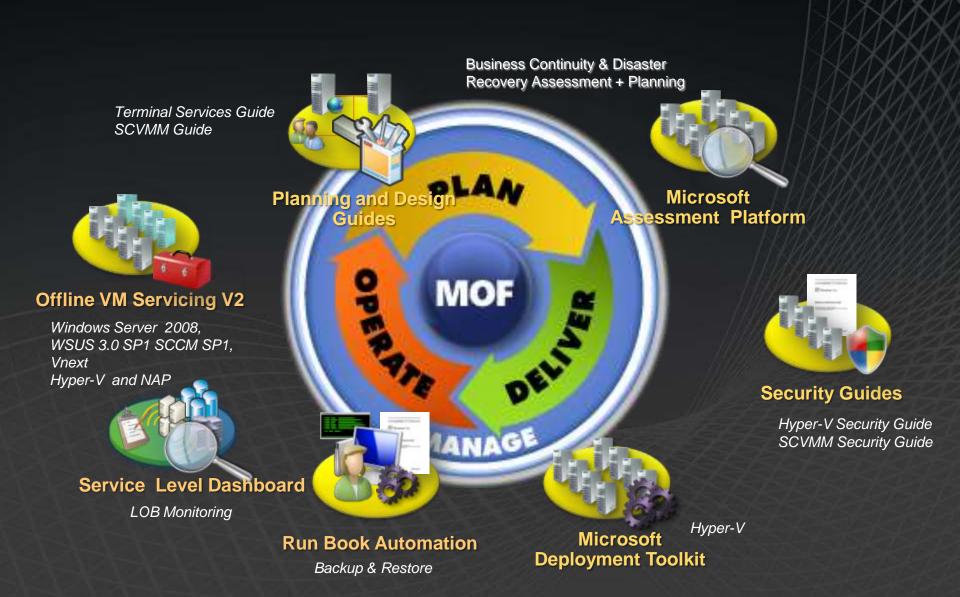
- Microsoft Operations Framework 4.0
- · Microsoft Assessment and Planning
- Fundamental Computer Investigation Guide for Windows

- Windows Vista Security Guide
- · Office Security Guide
- · Windows Server 2008 Security Guide

www.microsoft.com/solutionaccelerators

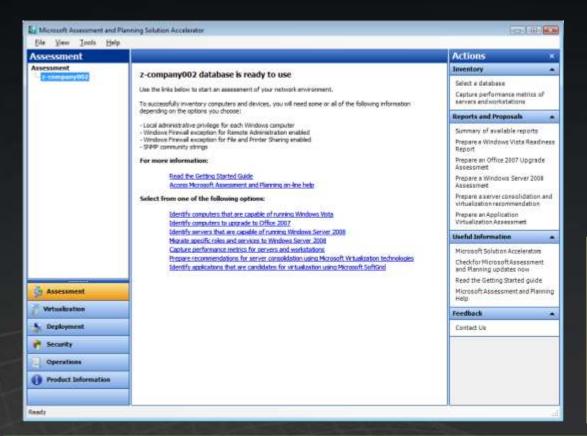
http://technet.microsoft.com/en-us/solutionaccelerators/default.aspx

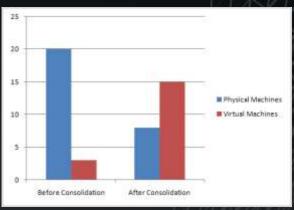
MOF 4.0 + Solution Accelerators



Microsoft Assessment and Planning (MAP)

Assessment Tools









- Collects inventory of existing servers, desktops and applications agentlessly
- Offers recommendations of server/application virtualization candidates
- Works with the ROI Tool to generate customer-specific ROI calculations

MOF 4.0 Automated Through System Center

MOF

MANAG

System Center
Operations Manager 2007

System Center Service Manager

System Center
Data Protection Manager

System Center Capacity Planner 2007

> System Center Configuration Manager

System Center
Virtual Machine Manager

Services Offering

PMM SLM DCM SEO /ITIL RAP

POG RAP SMA

Health for our Customers

Great Solutions Collection

Change

Solution	Process Area Component	Technology Component
SLM Service Level Management for: Exchange, Windows & SQL Based on SCOM	Service Level Management Proactive Problem Management Process SLAs, OLAs, MPR	Score Card Tool that measures key metrics against availability targets and performance standards; includes major problem review workflow for outages
DCM Desired Configuration Monitoring for: Exchange, Windows, Security Baseline & SQL, Based on SCCM	Change, Release & Configuration Mgmt Release Policy & Plans Change Calendar and scorecard	DCM tool for reporting and compliance monitoring MSIT XML configuration templates with MSIT settings and values by server role
PMOM Proactive Monitoring with SCOM for AD and Exchange	Incident & Problem Management SCOM Rules Record of	Management Pack Implementation Review & SCOM Tuning

MSIT Custom Rules

Service Level Management (SLM)

- Objective: "to define, agree, record, and manage levels of service"
- Deliverables:
 - (12+ whiteboard sessions)
 - Service Map
 - Up to 5 OLAs, and up to 5 SLAs
 - Service Review Meeting Planning Guide
 - MOM /SCOM SLA Scorecard for Exchange
- Tools
 - Scorecard via MOM/SCOM
- Time Frame:
 - 2 weeks (simple) to 4 weeks (complex)



Defining Business Value of SLM

- Do you track availability today?
- Do you know the business impact when messaging is down (cost of unavailability)?
- Is messaging availability based on SLAs with the business?
- Do you review outage trends?
- Can you quantify the number of outages caused by changes (planned vs. unplanned)?
- Can you quantify the number of outages that could have been avoided by having OLAs in place?
- Could OLAs help improve incident escalation and problem resolution times?
- Could this data help improve resource allocation based on availability data?

SLM Deliverables



Modeling

Service Map

Performance Standards

- Service Level Agreements (SLAs)
- Operating Level Agreements (OLAs)

Measurement

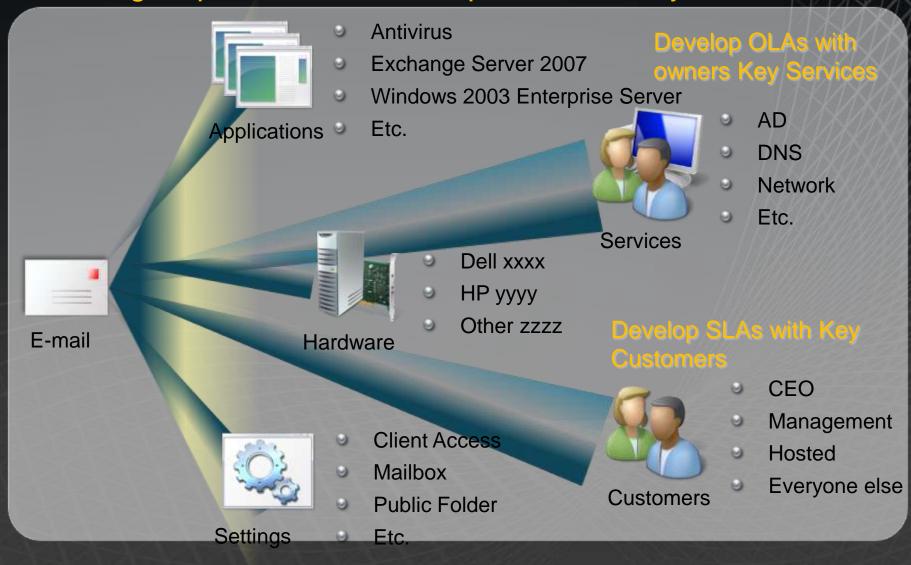
SLA Scorecard Accelerator Tool

Communications

- Service Review Meetings
- Microsoft IT's Action Item Tool

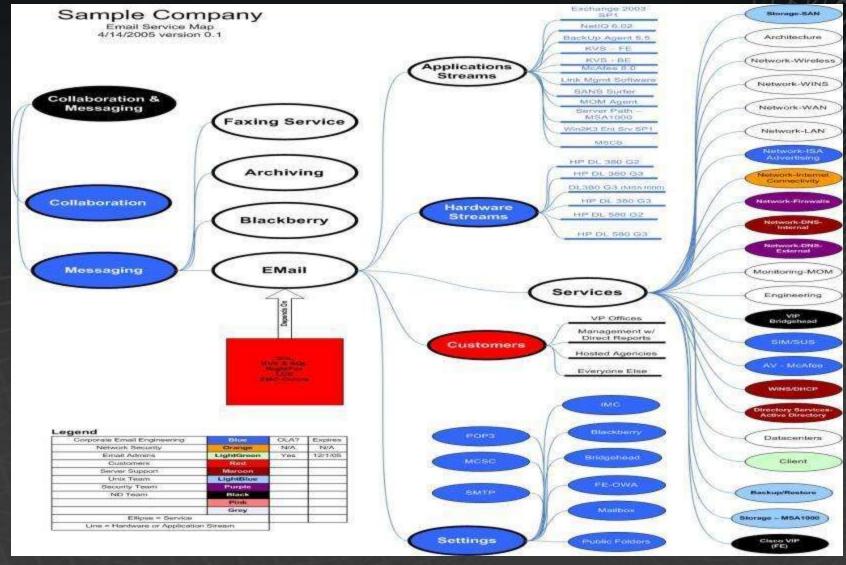
Example Service Map - Messaging

Defining Dependencies that Impact Availability

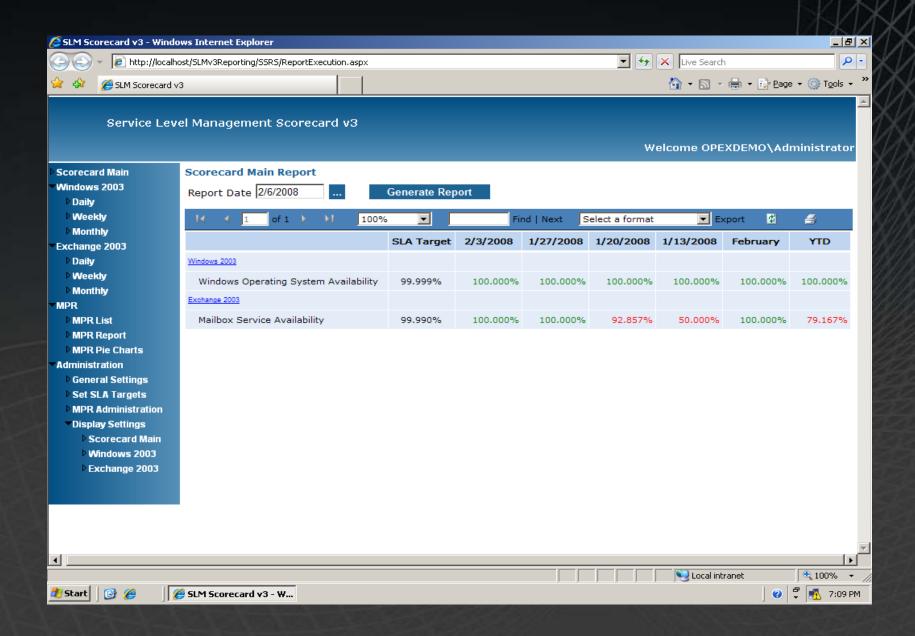


Service Map

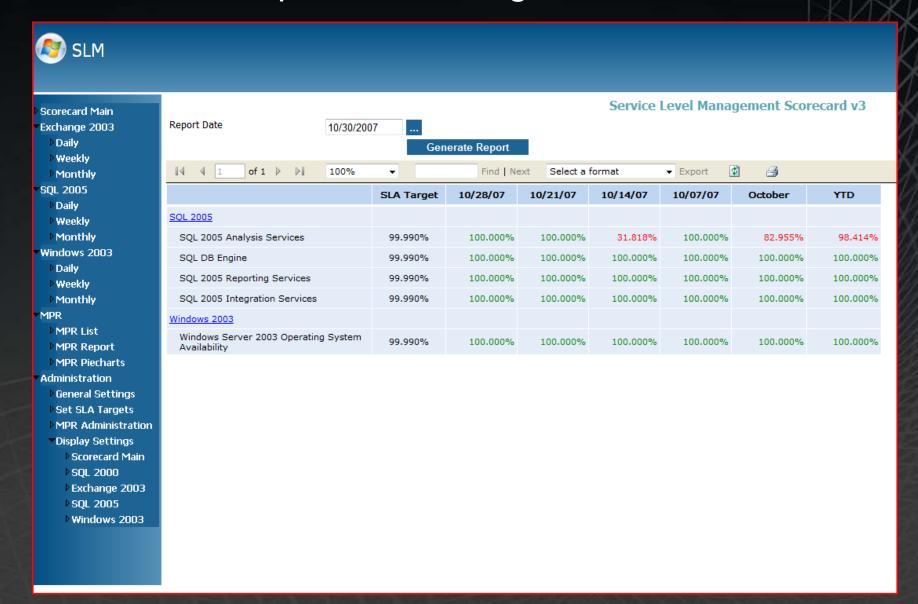
Defining Messaging Dependencies that Impact Availability



Scorecard for Operations Manager 2007 - Metrics



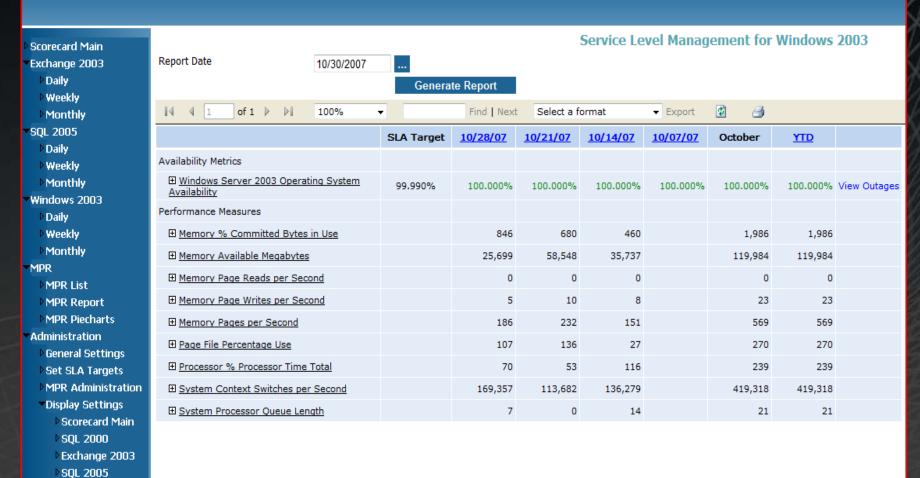
Scorecard for Operations Manager 2007 - Metrics



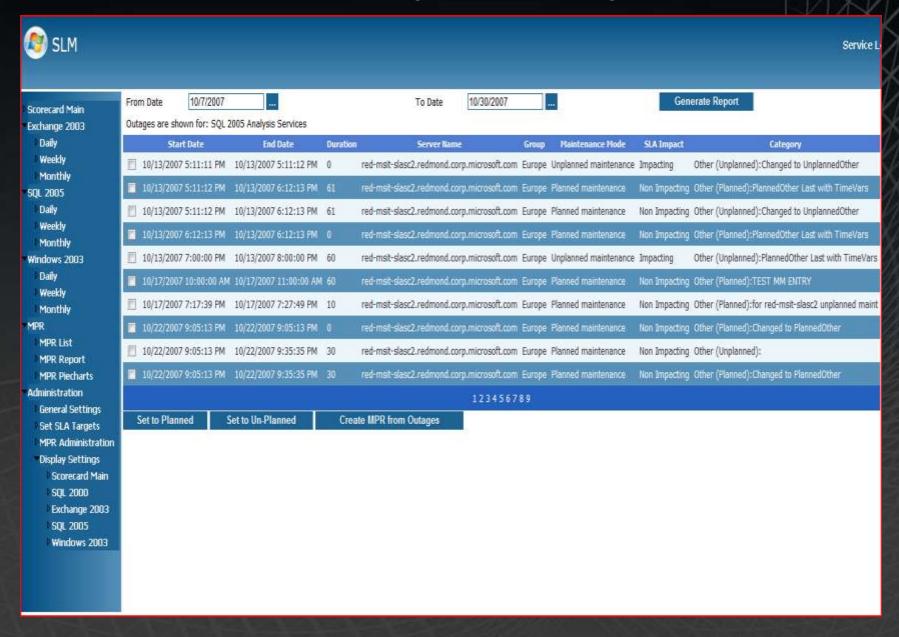
Scorecard for Operations Manager 2007 - Measures



▶ Windows 2003



Scorecard for Operations Manager 2007 - Outages



悠悠公古

Implementing MOF/ITIL Processes and Best Practices

- Working with people to change attitude to increase Operational excellence
- Implementing Kingdom processes:
 - Change, Configuration, and Release Management
 - Service Desk (with the approved tool), Incident, and Problem Management
 - Service Level Management
 - Availability Management
 - Continuity Management
 - Financial Management

Help achieve ISO/IEC 20000 certification

Prepare your IT for the ISO 20000 certification

ITSM & Operations

- ... It is a journey
- .. Implementing MOF/ITIL is never an objective!! Improving IT-Business services via MOF/ITIL best practices is the real gain/objective

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