

System Center Configuration Manager 2007

Service Pack 2 and R3 Technical Overview

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Agenda

- Configuration Manager 2007 Overview
 - Architecture
 - Features
- Demos
- Futures and Roadmap
- Resources

Configuration Manager 2007

- Product Timeline
 - Configuration Manager RTM
 - Released September 2007
 - Significant update to SMS 2003
 - Service Pack 1
 - Released April 2008
 - Platform support for Windows Server 2008/Vista SP1
 - Asset Intelligence update
 - Intel vPro integration
 - R2
 - Released August 2008
 - Application Virtualization Management
 - SQL Reporting integration
 - Client Status Reporting
 - Forefront Client Security Reporting
 - Service Pack 2
 - Released same day as Windows 7 GA
 - Windows 7 Support
 - Intel vPro Enhancements



Supported Client Numbers

Site Role	Maximum # of Client Systems		
Hierarchy (Central Site Server)	200,000*		
Primary Site Server	100,000		
System Health Validator	200,000		
Management Point	25,000		
Distribution Point (Non OSD)	4,000		
Distribution Point (OSD)	Limited by Network & Disk I/O		
State Migration Point	Limited by Network & Disk I/O		
Software Update Point (WSUS)	25,000		
Fallback Status Point	100,000		
Branch Distribution Point	Limited by OS License, Network & Disk I/O		
	* ConfigMgr 2007 R3 will move this to 300,000		

Platform Support

Feature/Platform	HW/SW Inventory	OS Deployment	Software Distribution	Software Update Mgmt	Desired Config Mgmt
Windows '7'	Windows7	Windows7	Windows 7	Windows 7	Windows?
Vista		((
Vista SP1	Ø	Ø	Ø	Ø	TAN O ONAN
XP SP2	((
Windows 2000	(((
Server 2008/R2	Ø				
Server 2003	((((
Server 2000	(((((
WFLOP	(((((
WePOS	(((((
XP Embedded	()	(X)	()	(
Windows CE	(8	((8
Windows Mobile	(8	((8



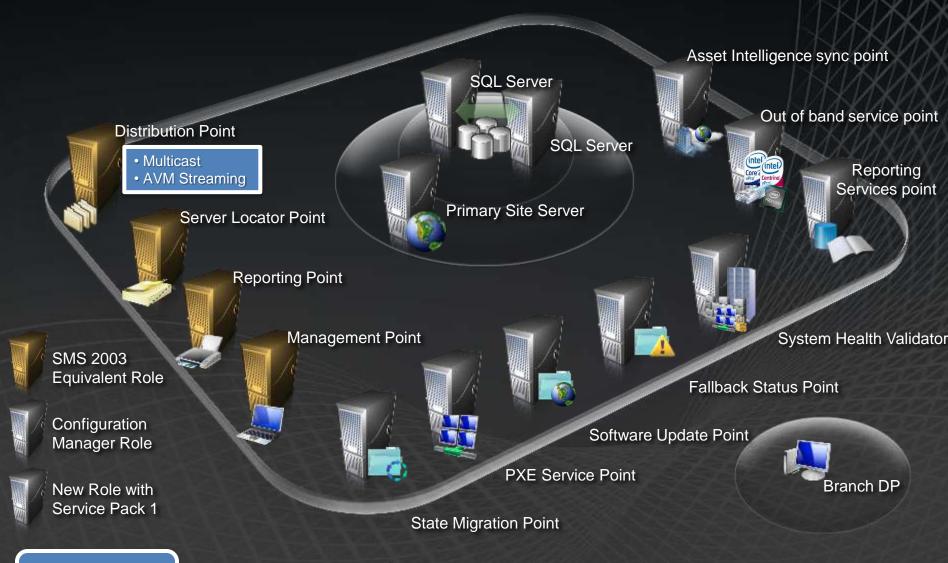








Configuration Manager Site Systems



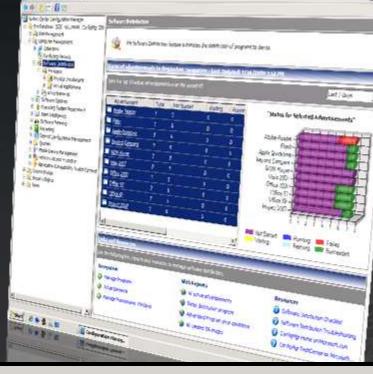
New R2 Capability

Traditional Software Distribution with System Center

Enhancements to a core feature, and new levels of control

for package delivery

- New Features:
 - Copy Package Wizard for package replication
 - Control when change happens with Maintenance Windows
 - Reduce your infrastructure with Branch Distribution Points
- Improvements:
 - Efficient troubleshooting with improved Package Cache control
 - Lower network traffic with Binary delta replication
 - Client Branding for User Experience
 - Wake on LAN support guarantees delivery



☐ ☐ Computer Management		
Conflicting Records		
□ 🌇 Packages		
Physicall Installations		
Virtual Applications		
🛨 😿 TechReady7 GomPlayer		
Advertisements		
Software Updates		
Operating System Deployment		

ı				
ı	Name	Package	Program ▼	Collection
ı	Office 2007 - Office 2007 to All Windows XP Systems	Office 2007	Office 2007	All Windows XP S
ı	Office 2007	Office 2007	Office 2007	Demo Client
ı	Forefront - Forefront Client to All Windows XP Systems	Forefront	Forefront Client	All Windows XP S
ı	Adobe Flash Player	Adobe Flash Player	[Virtual application]	All Systems
ı	Gom Player	GomPlayer	[Virtual application]	All Systems
ı	Microsoft Project	Project 2007	[Virtual application]	All Systems
ı	□GOM	Gom Player TechReady	[Virtual application]	All Systems
ı	Apple Quicktime	Apple QuickTime	[Virtual application]	All Systems

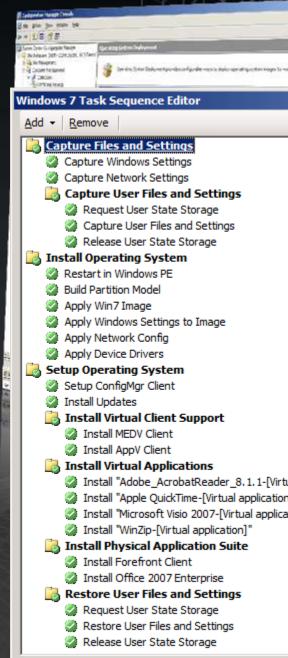
Application Virtualization Management

- Create application packages from sequenced applications
- Deliver virtual applications based on advertisements just like traditional apps
- Stream from Distribution Points for on-demand availability (online scenario)
- Load locally on the client for offline availability and reliable delivery (offline)
- Inventory virtual applications and report on the data
- All aspects of the dynamic nature of Application virtualization are supported
 - Version checking, user-based targeting, streaming



Operating System Deployment

- Highly automated solution for assessing, migrating and deploying windows server and client operating systems
- End-to-end deployment automation support
- Assess migration readiness for Windows Server 2008, Vista and Office 2007
- Built in reports for minimum and recommended settings
- Enable dynamic deployment of drivers at runtime
- Organize, replicate and deploy packages
- Utilize Windows PnP detection Unknown computer support for bare metal deployments
- Multicast support for Bare Metal



Software Updates

- Built on WSUS 3.0 architecture
- Included as Managed Server role in site hierarchy
- Full benefits of site management, Binary Delta Replication
- Provides:
 - Compliance assessment
 - Security updates / vulnerability assessment
 - Application updates
- All Microsoft software updates categories plus:
 - OEMs and software vendors (ISVs)
 - Internally-developed applications (LOB)
- Full integration into other areas of Configuration Manager:
 - OS Deployment
 - Internet Based Client Management
 - Windows Server 2008 NAP
 - System Center Update Publisher
 - Desired Configuration Management



Reporting

- Enhanced report capabilities for:
 - Application Compatibility
 - Application Compatibility Toolkit integration
 - Asset Intelligence
 - Software category, family usage repo
 - OS Deployment
- Granular process tracking, deep insight into OS Deployment steps
- Desired Configuration Management
- Compliancy adherence
- Vulnerability Assessment



SQL Reporting Services Integration

- New server role called the "Reporting Services Point"
- Ability to convert/copy classic SMS reports to Report Definition Language format and publish them to a Reporting Services Point (report server)
- New node under "Computer Management -> Reporting" for accessing the SRS ConfigMgr reports
- Ability to manage, browse and run SRS
 ConfigMgr reports from the ConfigMgr Console

Asset Intelligence

- New UI
 - New interface in Configuration Manager Admin Console
 - New Catalog and License management UI tools
 - Enhanced UI for all Asset Intelligence WMI Classes
- System Center Online Connection
 - Keep software asset categorization up-to-date
 - On-demand or scheduled catalog synchronization w/On-line Service
 - New Configuration Manager site role: The Asset Intelligence Synchronization Point
 - Upload requests for software categorization to On-line Service
- Basic replication to distribute AI content to other Configuration Manager sites
- Ability to import licensing data and compare to inventory
- Local edit support allows customers to categorize software assets

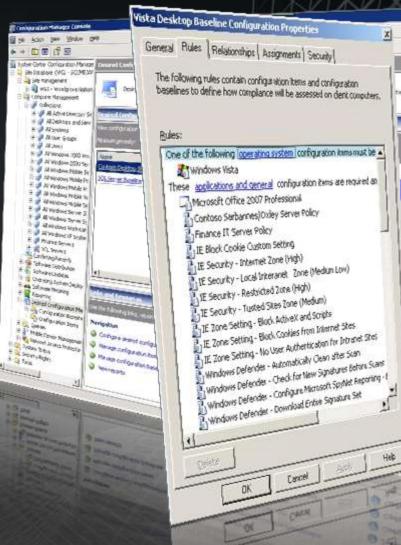
Desired Configuration Management

Identify required and prohibited configurations

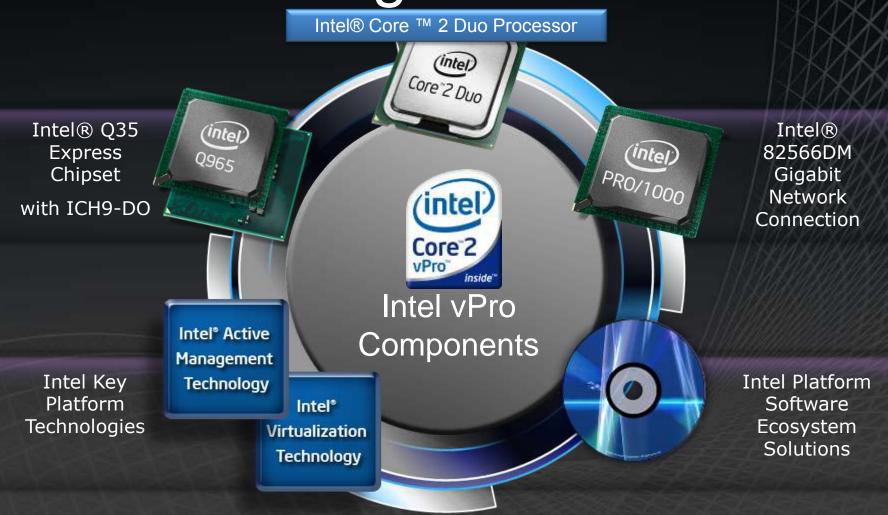
Report on compliance of configurations

Improve systems availability, security, and performance

- Reduce "configuration drift"
- Improve help-desk troubleshooting
- Remediate non-compliance by:
 - Deploying software
 - Scripts
 - Updates
 - Task-sequences
- Dashboards provide status of complian
- Define configuration baselines across physical and virtual environments for:
 - Business
 - Workload
 - Role
 - Other
- Leverage Microsoft and third party Configuration Packs



Intel AMT Integration



- Intel® Active Management Technology (AMT) is a function of the chipset & network controller
- Hardware-based management for clients
 - Desktop: Intel® vPro[™] Processor Technology





ConfigMgr 2007 Features for Intel vPro integration

Provisioning

- Secure Setup & Configure AMT
- Zero Touch Certificate Hash
- Zero Touch In band via agent
- Ties to OSD w/targeting

Remote Console

- Helpdesk / Interactive session
 - Serial over LAN
 - IDE Redirection
 - BIOS password bypass
 - Manual power control

Discovery/Inventory

- Discover On Demand
 - per machine / per collection
- Scheduled Discovery
- In band Discovery via agent

Power Control

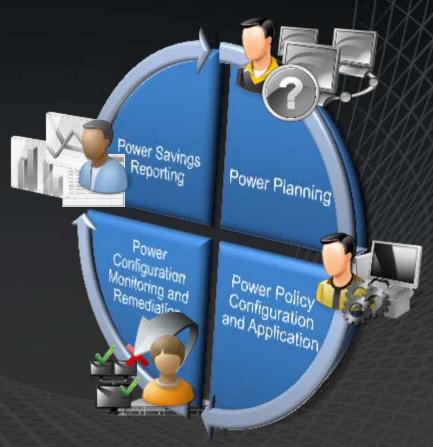
- Scheduled Power On
 - SWDist, SUM, OSD
- On Demand Power Control
 - Wake, Restart, Shutdown
- Interactive via OOB Console



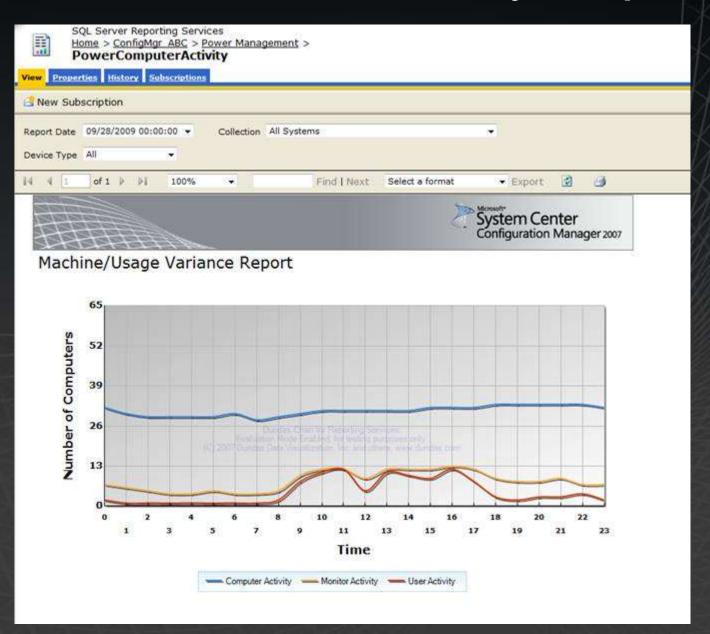
R3

System Center Power Management

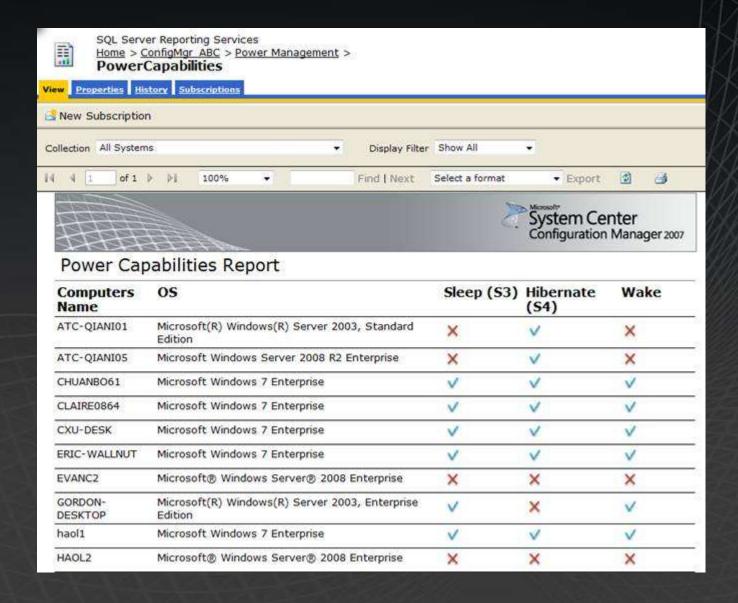
- Monitor current power state and consumptions
- Plan and create a power management policy, check for exceptions
- Apply power management policy
- Check compliance and remediate noncompliance.
- Report saving in power consumption and costs and environmental impact.

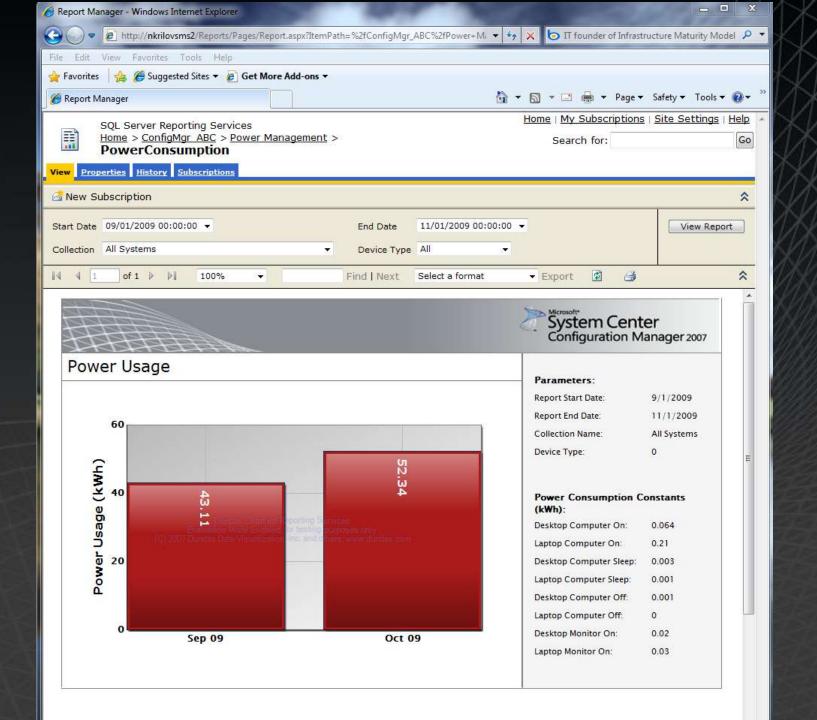


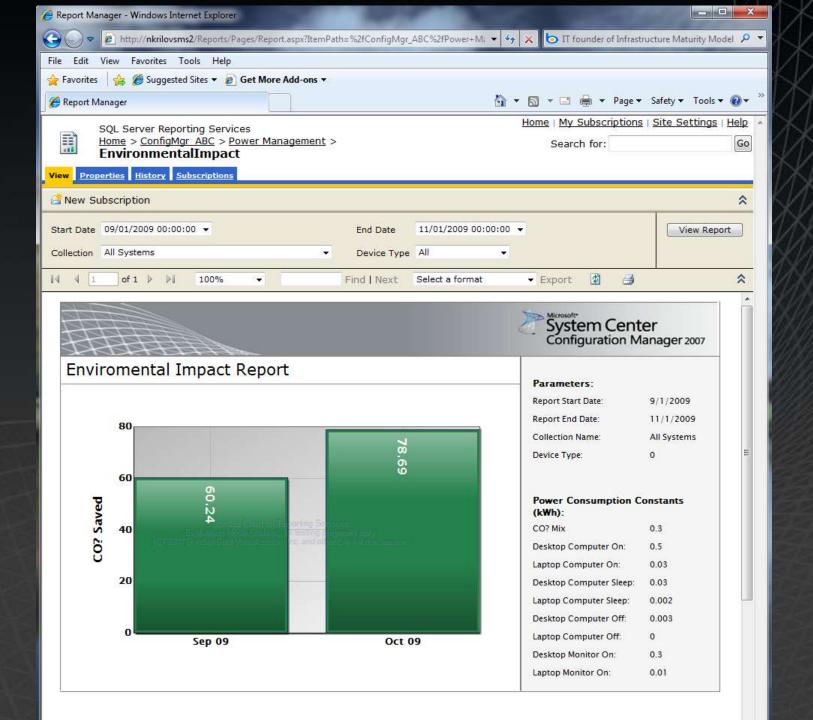
Machine and User Activity Report

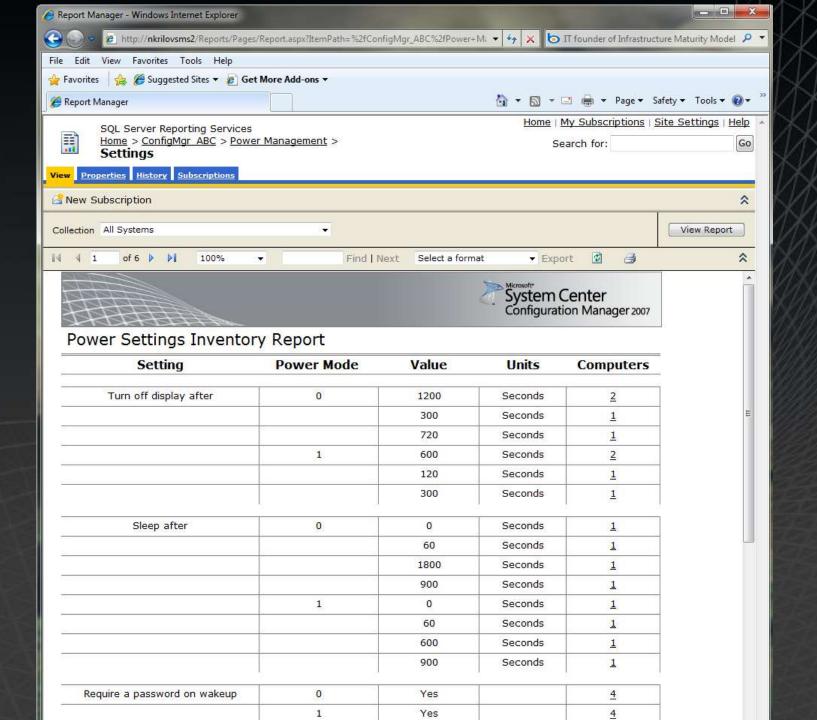


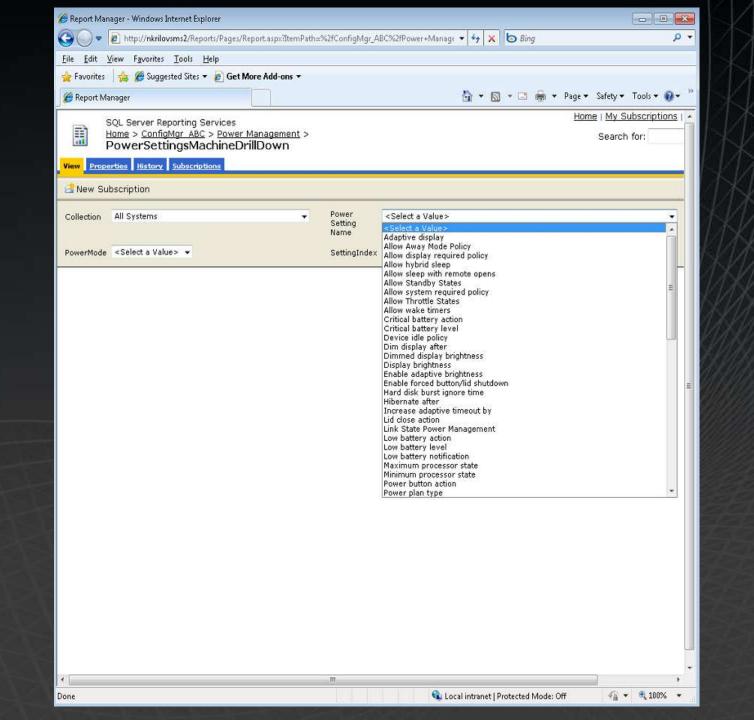
Power capability report











System Center Roadmap

	2008	2009	2010	2011
System Center Operations Manager	2007 SP1	2007 R2		vNext
System Center Virtual Machine Manager 2008	2008	2008 R2		vNext
System Center Configuration Manager	2007 R2	2007 SP2	R3	vNext
System Center Data Protection Manager	2007 SP1		2010	
System Center Service Manager			2010	vNext
Desktop Optimization Pack for Software Assurance	2008	2009 & R2	2010 & R2	2011 & R2
System Center Online Desktop Manager			V1	V2 and V3
System Center Essentials	2007 SP1		2010	

Links and Resources

- System Center Nexus Team Blog <u>link</u>
- What's new SP2 TechNet Documentation Library- link
- Configuration Manager <u>download</u>
- ConfigMgr Product Homepage <u>link</u>
- Configuration Manager Product Team Blog <u>link</u>
- Windows MDOP <u>link</u>
- Windows Server 2008 R2 Branch Cache overview link
- Branch Cache ConfigMgr Deployment Guidance <u>link</u>

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Configuration Manager Feature Summary: RTM

Admin UI Improvements	•Richer knowledge presented, less mouse clicks, stronger wizard guidance, deeper pre-req checks and deployment assistance
Asset Intelligence	Attach meaningful business terminology to inventory
HW/SW Inventory	Advancements in upgrade reports, virtual support and more
OS Deployment	Significant update, server support, multicast and unknown system support
Software Update Management	Broad integration across ConfigMgr features, built on WSUS, branch, internet based, OSD, DCM
Network Access Protection	•Integration scenario support for Windows Server 2008
Software Distribution	•Improvements to a core feature, new virtualization support
Desired Configuration Management	Model based, baseline definitions and regulatory support for system management
Device Management	Powerful support for CE, PPC, Windows Mobile devices
SDK	Now available, strong extension to core product

Configuration Manager Feature Summary: Service Pack 1

Windows Server 2008 Support

- •Platform Support for planning, deployment and management of Windows Server 2008
- Support for Site Role infrastructure deployment to Windows Server

Vista SP1 Support

•Platform Support for planning, deployment and management of Windows Vista Service Pack 1

Asset Intelligence 1.5

- Major capability update
- Significant Admin Console Upgrades
- New Catalog and License support
- System Center Online synchronization support

Intel AMT Integration

•Feature Integration with Intel vPro Technology

Customer DCR

Small Collection of Customer Design Change Requests

Infrastructure to support R2 features

Service Pack 1 download includes codebase for R2

Hotfix Rollup

•Small Collection of hotfix and updates to rtm codebase

Configuration Manager Feature Summary: R2

Application Virtualization Management

 Seamless integration to Microsoft Application Virtualization

New OSD capability

 Additions of Multicast and Unknown Computer Support

Client Status Reporting

 Client summary rollup of key performance indicators

SQL Reporting Services Integration

Migration of ConfigMgr reports to robust reporting platform

Forefront Client security integration

 Configuration Pack knowledge of the Forefront client status

Configuration Manager 2007 Feature Summary: SP2

Operating System Updates

- Windows 7
- •Windows Server 2008 R2
- •Windows Vista Sp2
- •Windows Server 2008 SP2

Improved Client Policy Evaluation

- Faster local policy processing through the removal of 2 minute hard coded delay
- More efficient software distribution configured to run at user logon through removal of 10 minute hard coded delay at User Logon.

BranchCache Support

Support for Windows Server 2008 R2 enabled infrastructure

64-bit Architecture Development

- X64 support for OpsMgr '07 Client Agent
- Update to OpsMgr MP for x64 OS
- x64 performance counters (the management pack is a separate release)
- Remote control support added for x64 Windows XP and x64 Windows Server 2003
- App-V x64 Client support

Asset Intelligence Certificate Requirement Removal

•The requirement to have a certificate to configure online sync of software catalog has been removed

Intel vPro enhancements

- OOB Wireless Management: Wireless Profile Management
- End Point Access Control: 802.1x support
- Persistent Data Storage: Non Volatile Memory or Third Party Data Store (3PDS)
- Access Monitor: Audit Log
- Remote Power Management: Power State Configuration from ConfigMgr Console

Other areas

- Multi-select and delete driver catalog drivers from the console
- Task sequence UI now displays package names as in the console
- Better feedback on AD extension success / failure