Keeping Up To Date with Windows Server Update Services

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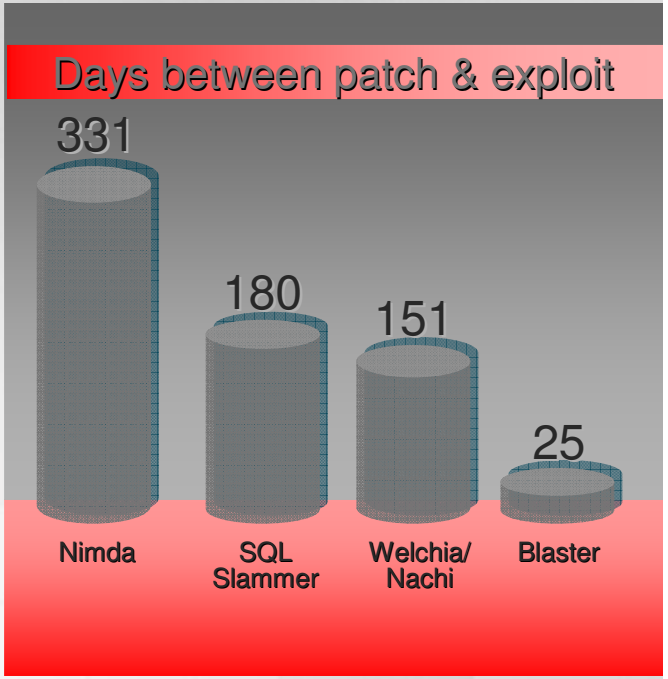
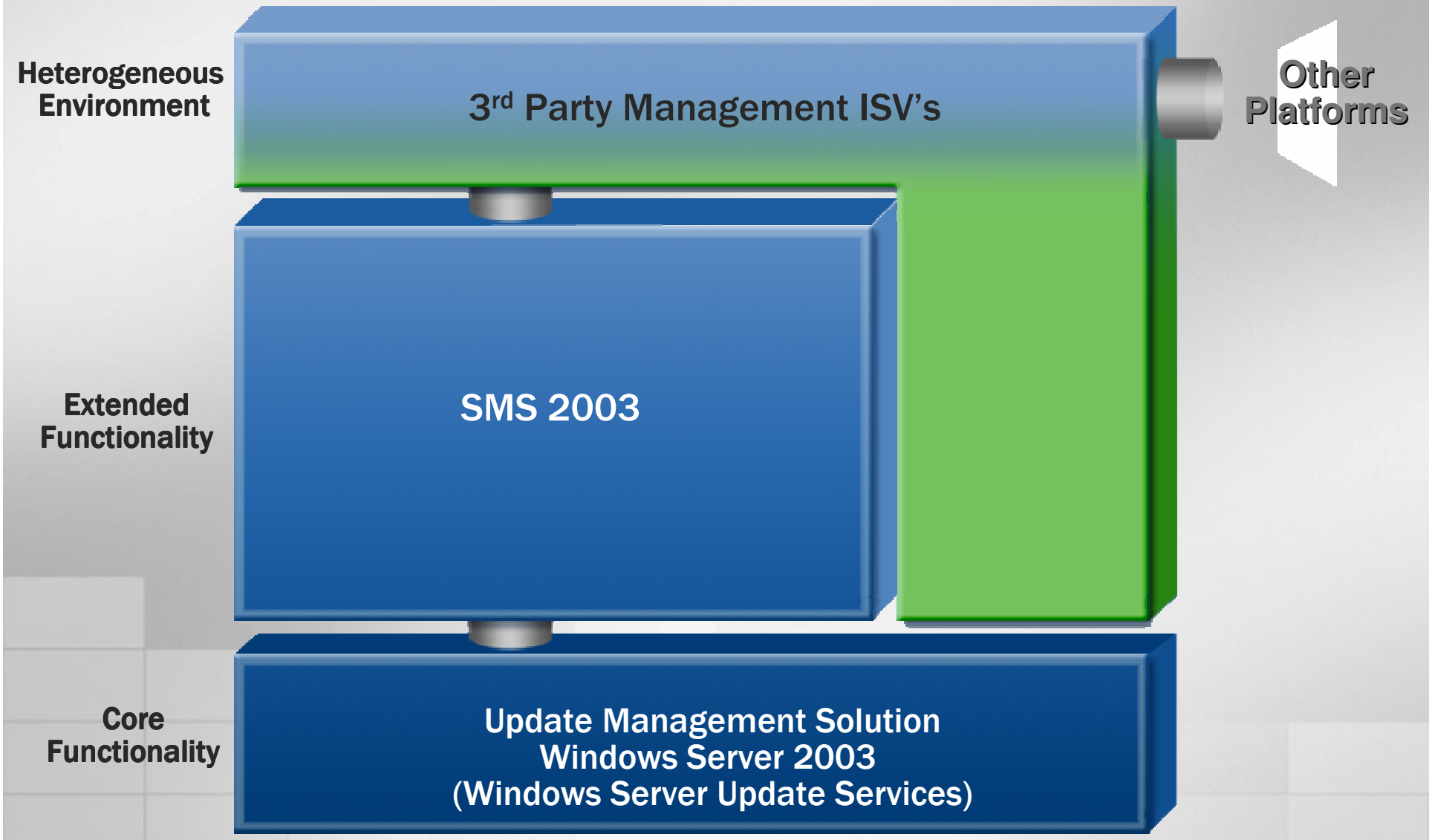
Business Risk Is High

- Up to 95% of breaches exploit vulnerabilities for which a countermeasure exists – CERT
- Staying up to date is hard
  - Patches proliferating
  - Time to exploit decreasing
  - Our tools not sufficient



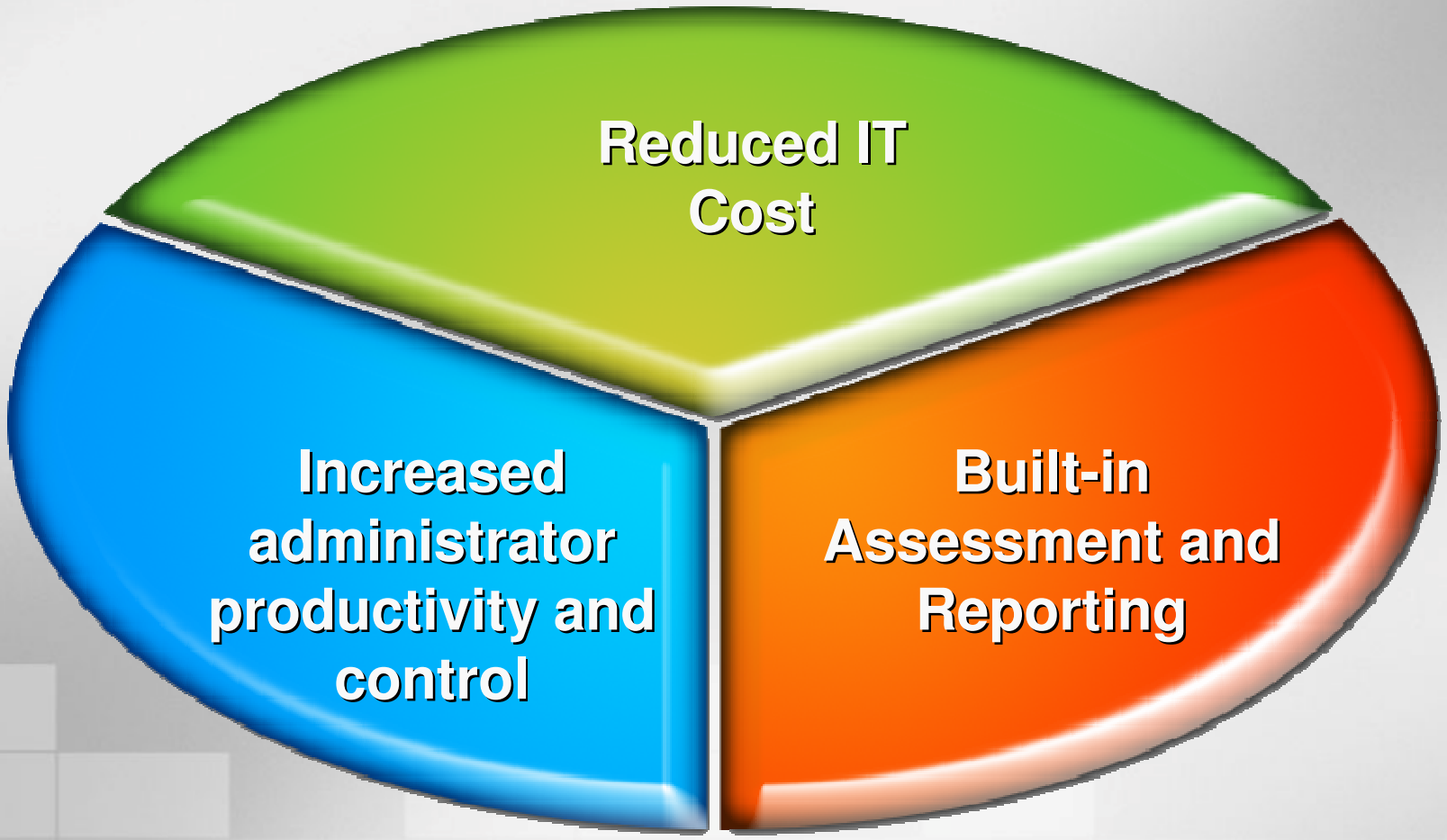
Microsoft Update Management Strategy



What is Windows Server Update Services?

- Corporate update management offering
  - Gets content from Microsoft Update (MU) service
- RTW component of Windows Server
  - Free to Windows Server (2000 and above) licensees
  - Requires Windows Server / Server CAL for target systems
- Does not change currently available offerings
  - SUS 1.0 continues to get content from WU
- Core component of Microsoft's Update Management solutions & roadmap

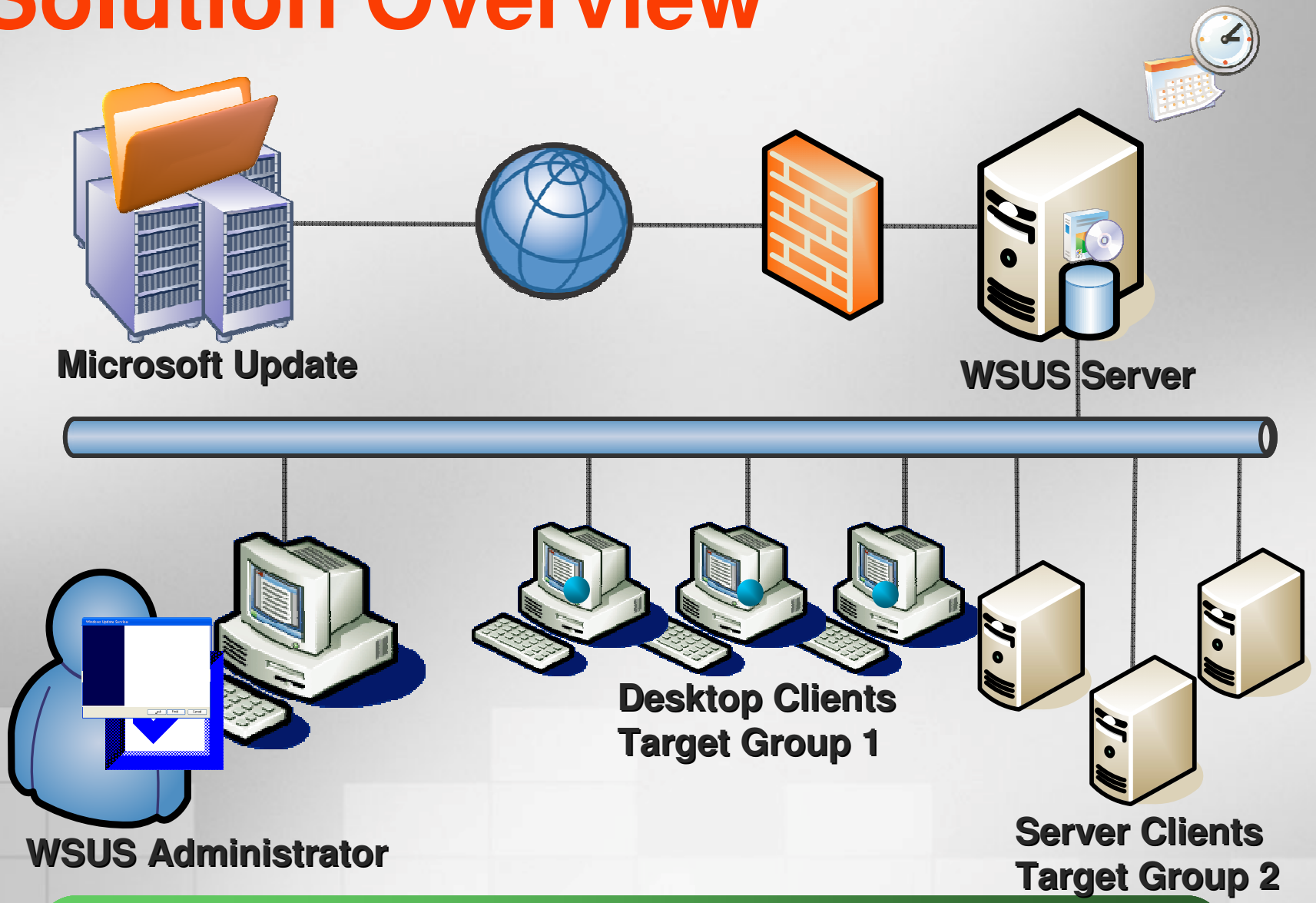
Windows Server Update Services Benefits



Goals and Design Principles

- Deliver easy to use, fully functional ***solution*** to address update management scenarios for all Microsoft products
  - Automate the update management process as much as possible
  - Support more than just Windows patches
  - Address customer requests from SUS 1.0
  - Optimize administrator experience for IT generalist
- Build the core patch management ***infrastructure*** for the Windows platform
  - Leveraged by other tools (e.g., SMS & MBSA)
  - Rich set of APIs to allow for extensibility and customization
  - Scale to large Internet services (Microsoft Update)

Solution Overview



Clients installs administrator approved updates

Supported Products and Content

- Content Partners
  - Windows, Office, SQL, Exchange at RTM.
  - Additional products added over time
- OS platforms
  - Client/agent
    - Win2k SP3 and later, WinXP RTM and later (incl. XP embedded and XP x64)
    - Win2k3 RTM (32-bit only), Win2k3 SP1 (x64 and ia64)
  - Server
    - Win2k SP4 and later
    - Win2k3 RTM and later (32-bit only)
- International support
  - Client is localized to 25 Windows client locale
  - Server is localized to 17 Windows Server locales
  - MUI support

Update Management Features

- Administrator defined target groups
  - Group Policy defines client membership for AD environments
  - WSUS Server defined group membership for non-AD environments
- Administrator control of approvals
  - “Detect only” evaluation of machines for patch applicability
  - Approve for install and uninstall (requires update support)
  - Date-based deadlines
- Flexible Agent Configuration
  - Polling frequency
  - Notification, Install and Reboot behaviors
  - Port configurability
  - Install at Shutdown (XP SP2 and Win2k3 SP1 only)

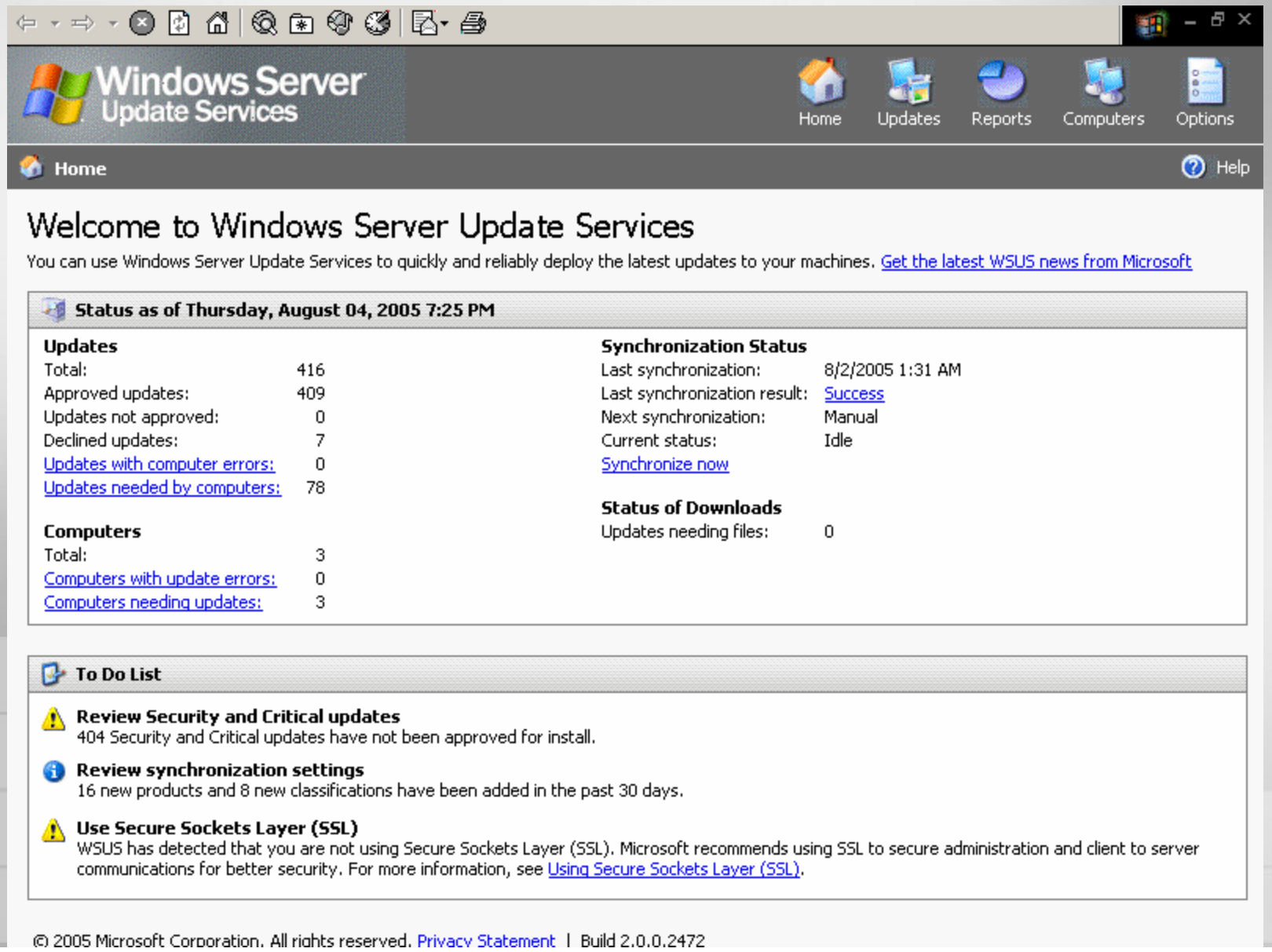
Update Management Features

- Resilient and transparent
  - BITS* for client-server and server-server downloads
  - Downloads are in the background
- Minimized data downloads
  - Update subscriptions – only download updates for products, classifications and languages that *you* need
  - Support for “delta compression” technologies for client-server communications
- Reporting
  - Summary status and alerts (home page)
  - Per computer, per update with printable compliance reports
  - Drilldown capabilities
  - Synchronization reports
- Server deployment options
  - Stand alone, Hierarchical, Disconnected

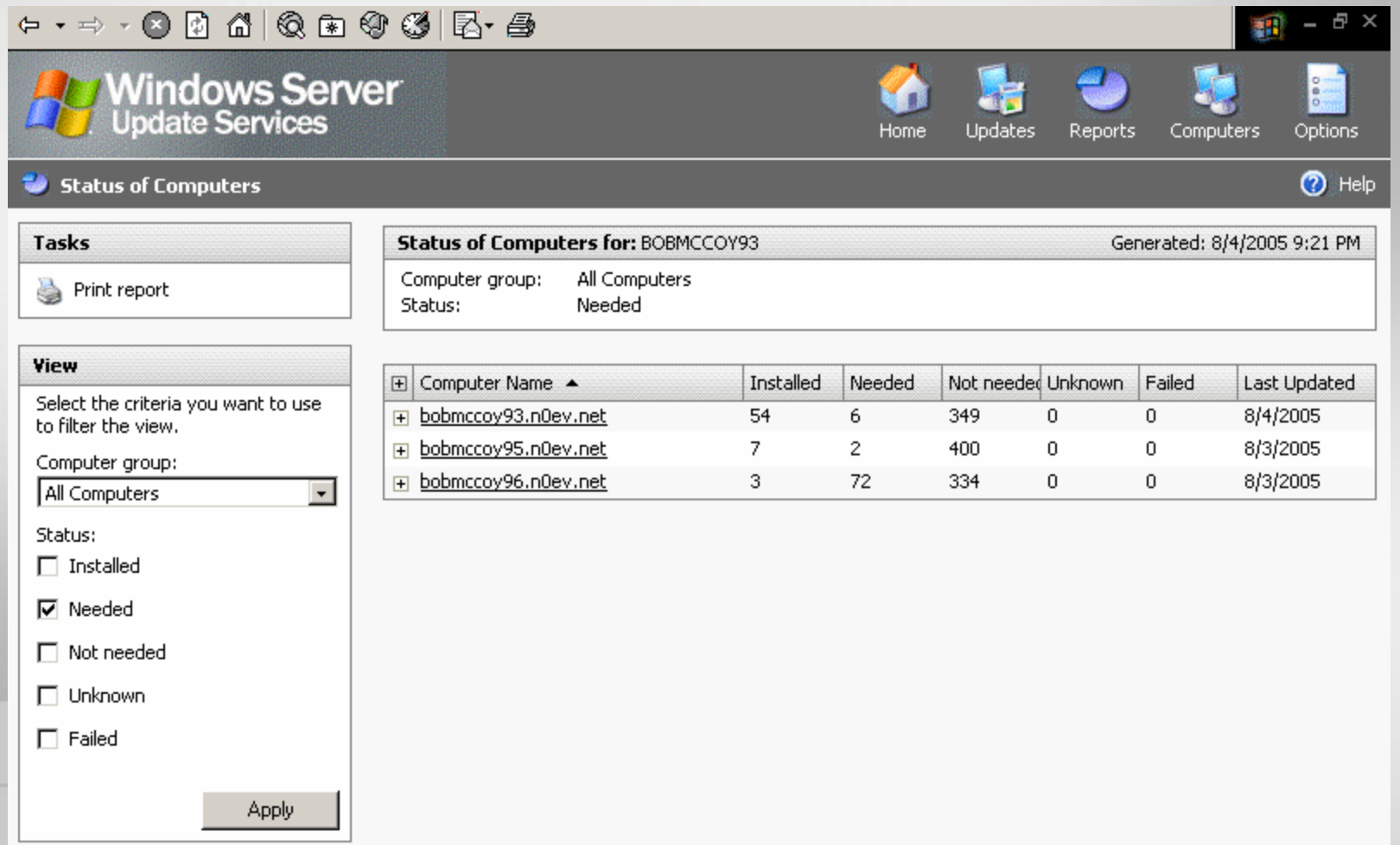
*Background Intelligent Transfer Service

demo

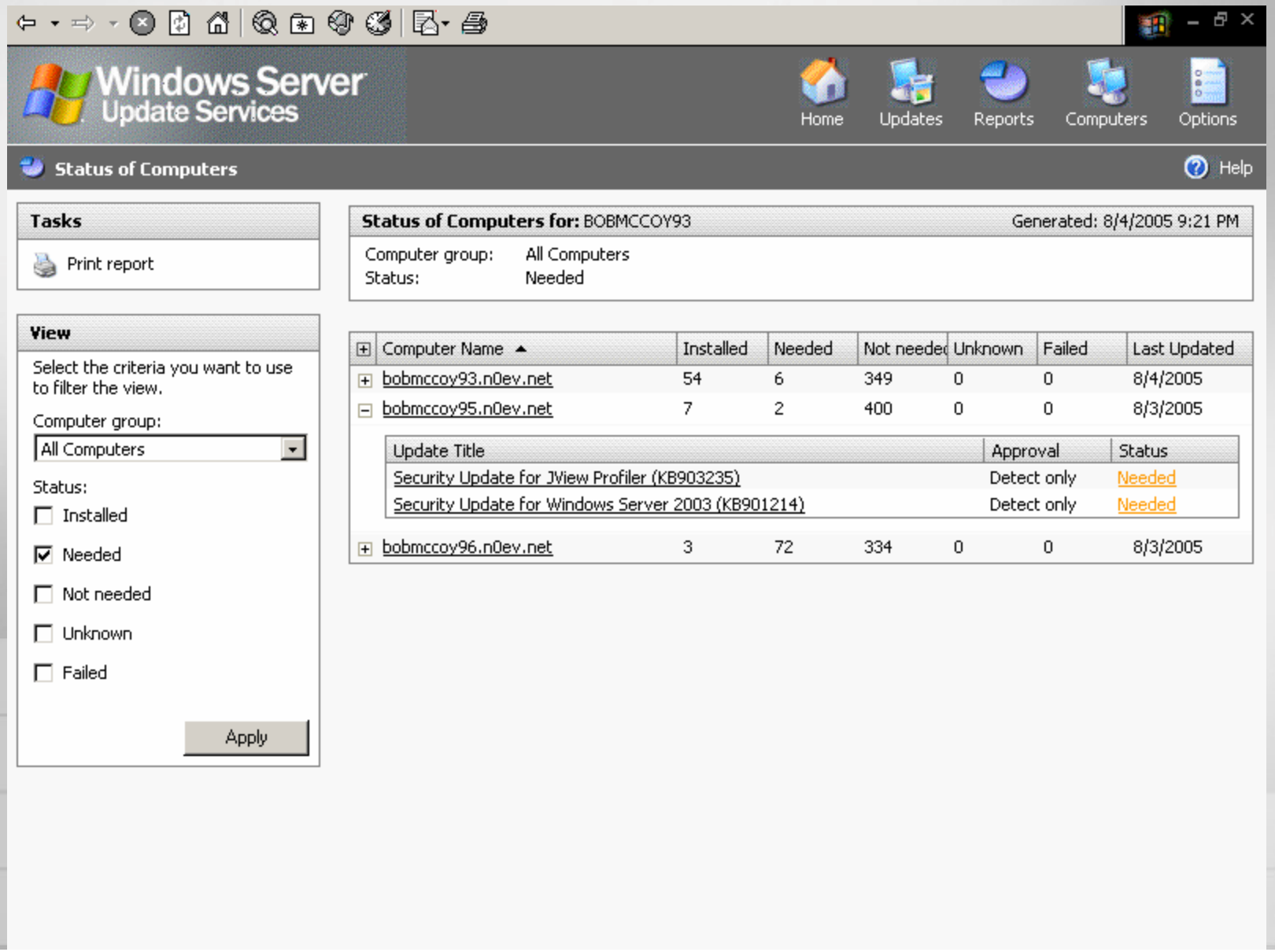
Welcome Page



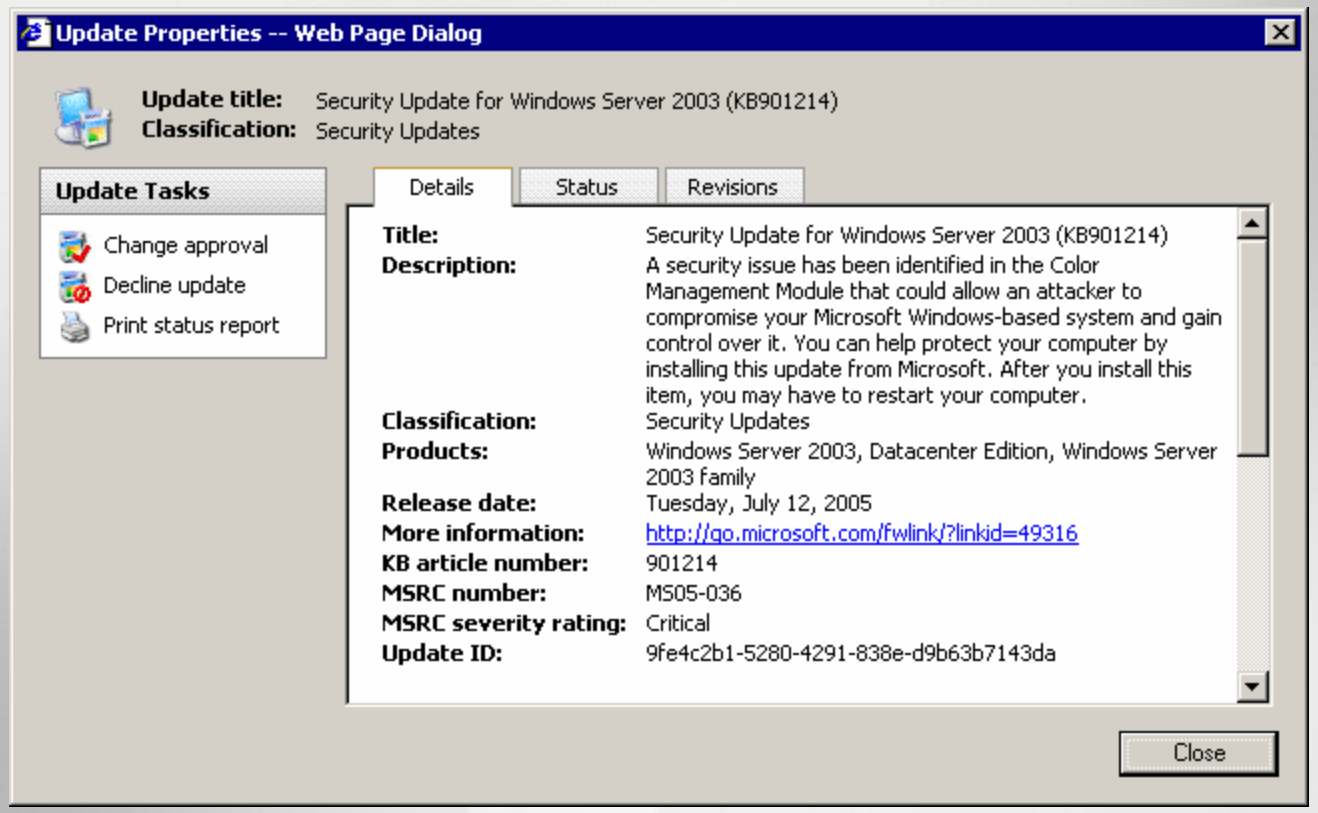
Status


Windows Server Update Services
Home
Updates
Reports
Computers
Options
Status of Computers
Help
Tasks
Print report
View
Select the criteria you want to use to filter the view.
Computer group:
All Computers
Status:
Installed
Needed
Not needed
Unknown
Failed
Apply
Status of Computers for: BOBMCCOY93
Generated: 8/4/2005 9:21 PM
Computer group: All Computers
Status: Needed
Computer Name
Installed
Needed
Not needed
Unknown
Failed
Last Updated
bobmccoy93.n0ev.net 54 6 349 0 0 8/4/2005
bobmccoy95.n0ev.net 7 2 400 0 0 8/3/2005
bobmccoy96.n0ev.net 3 72 334 0 0 8/3/2005

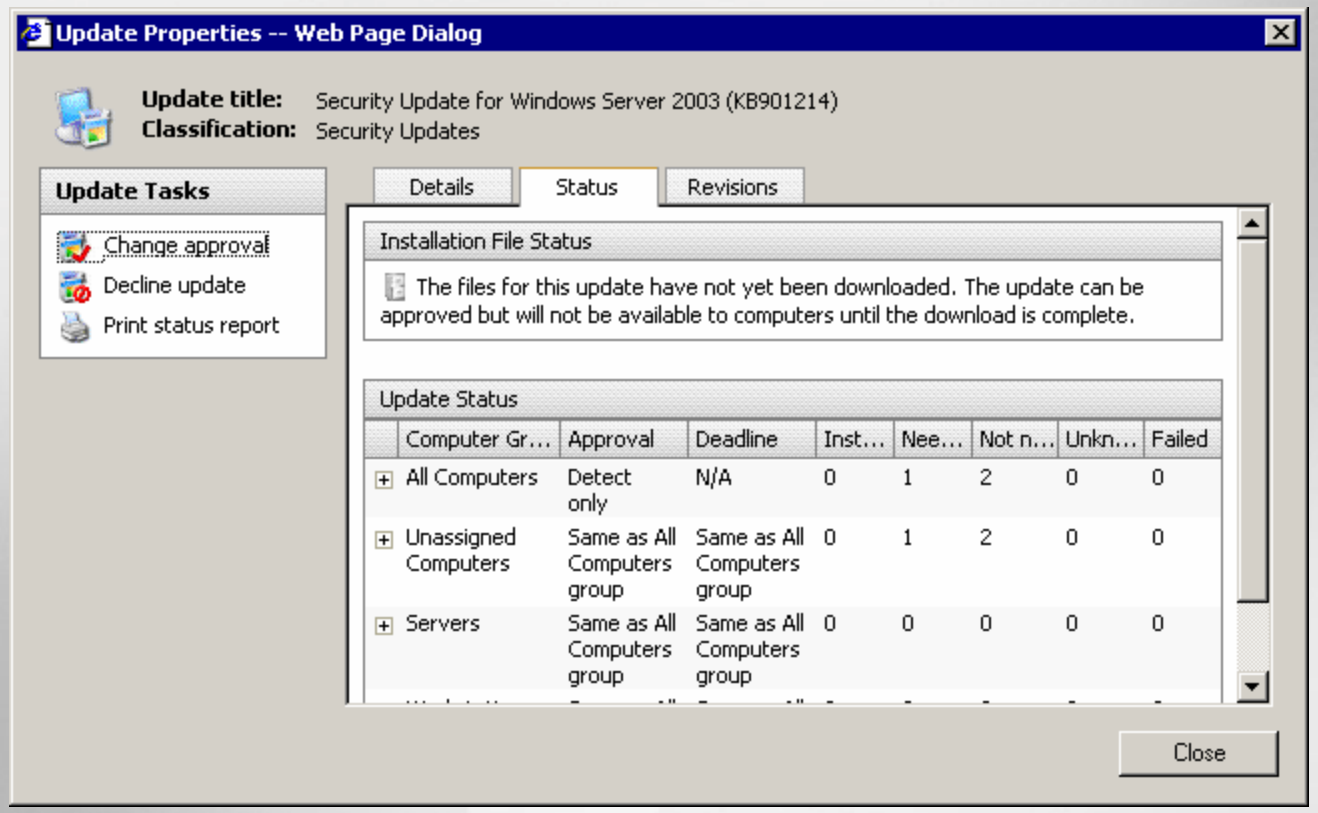
Patch Drilldown



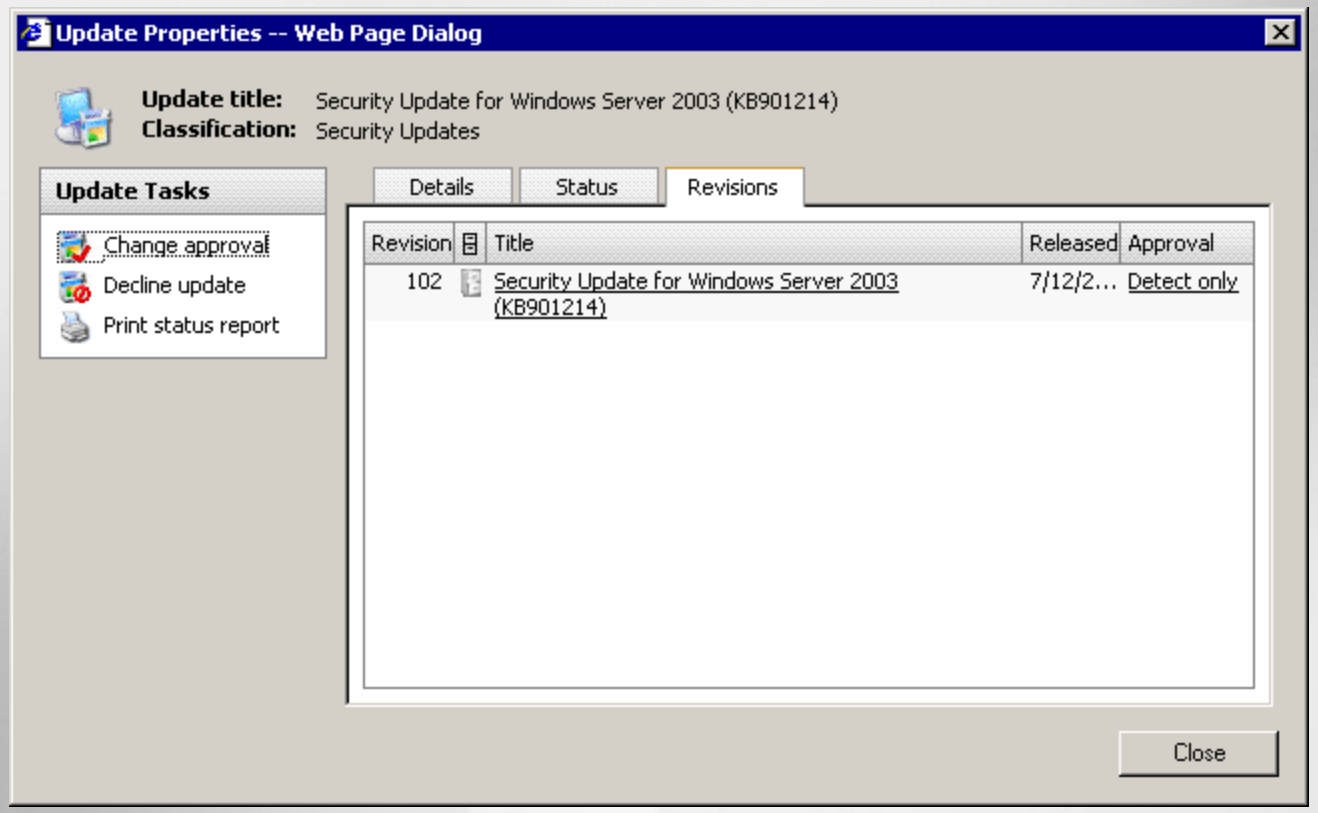
Patch Details



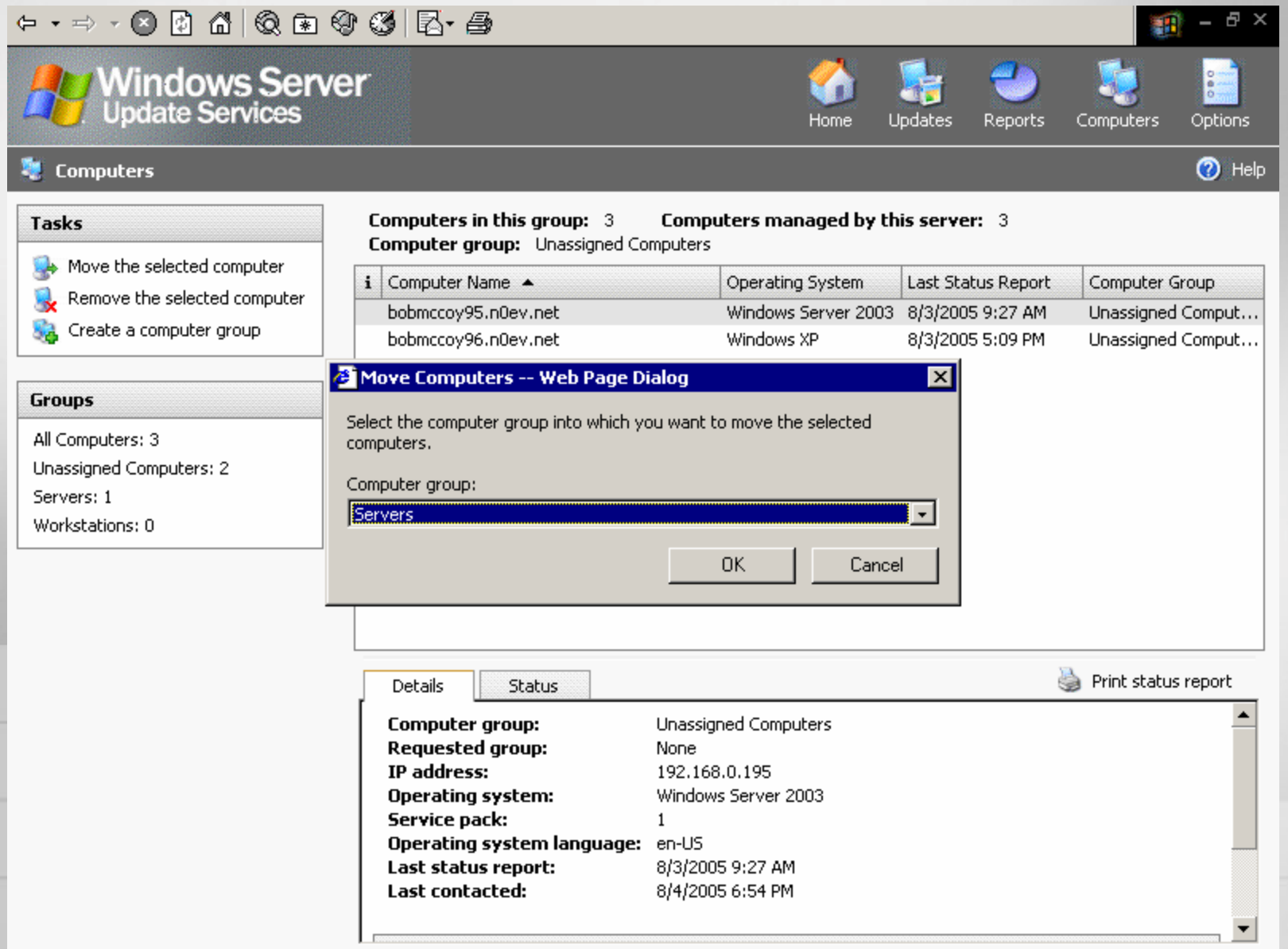
Patch Status



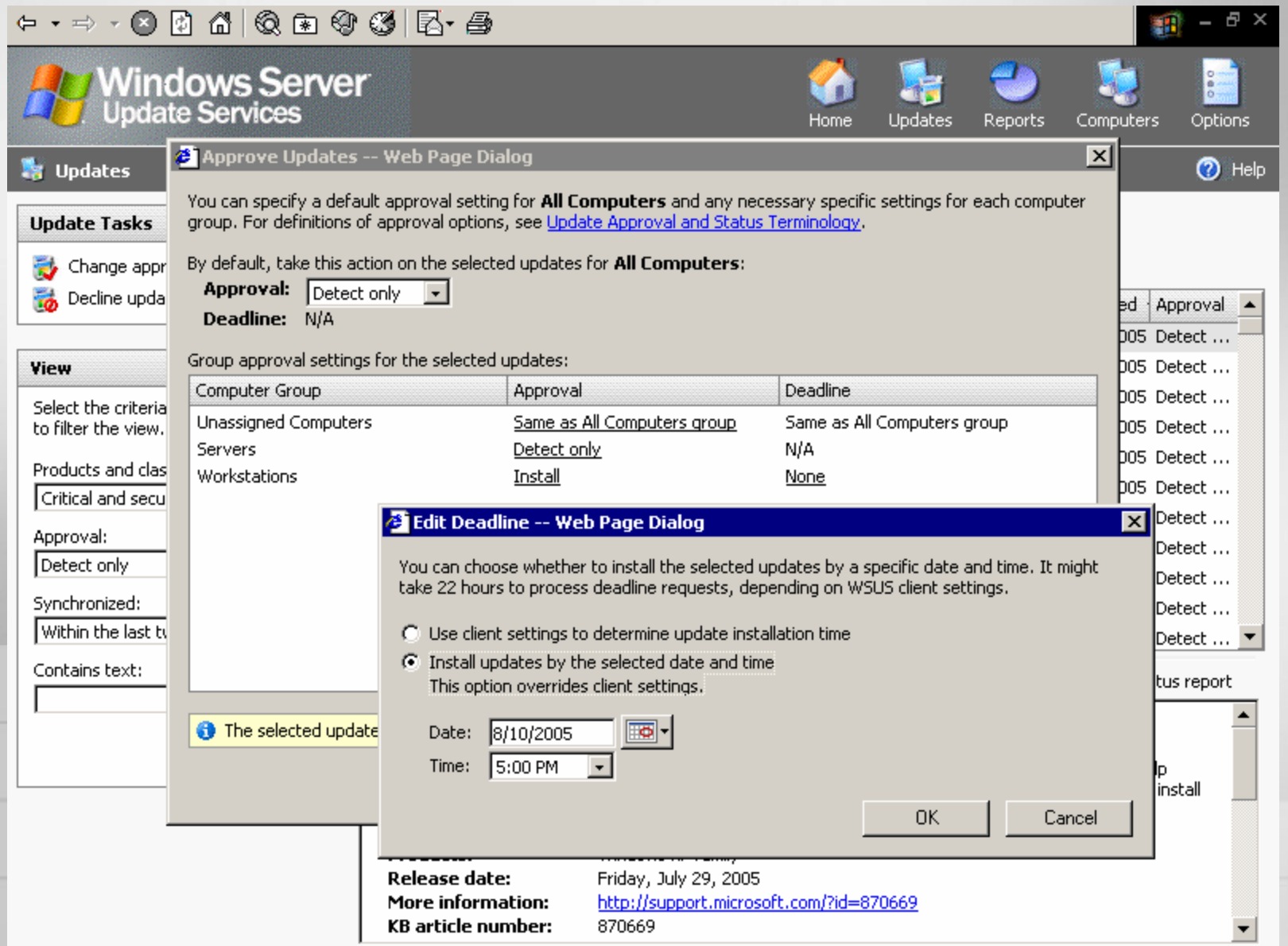
Patch Revisions



Computer Groups



Approving Updates



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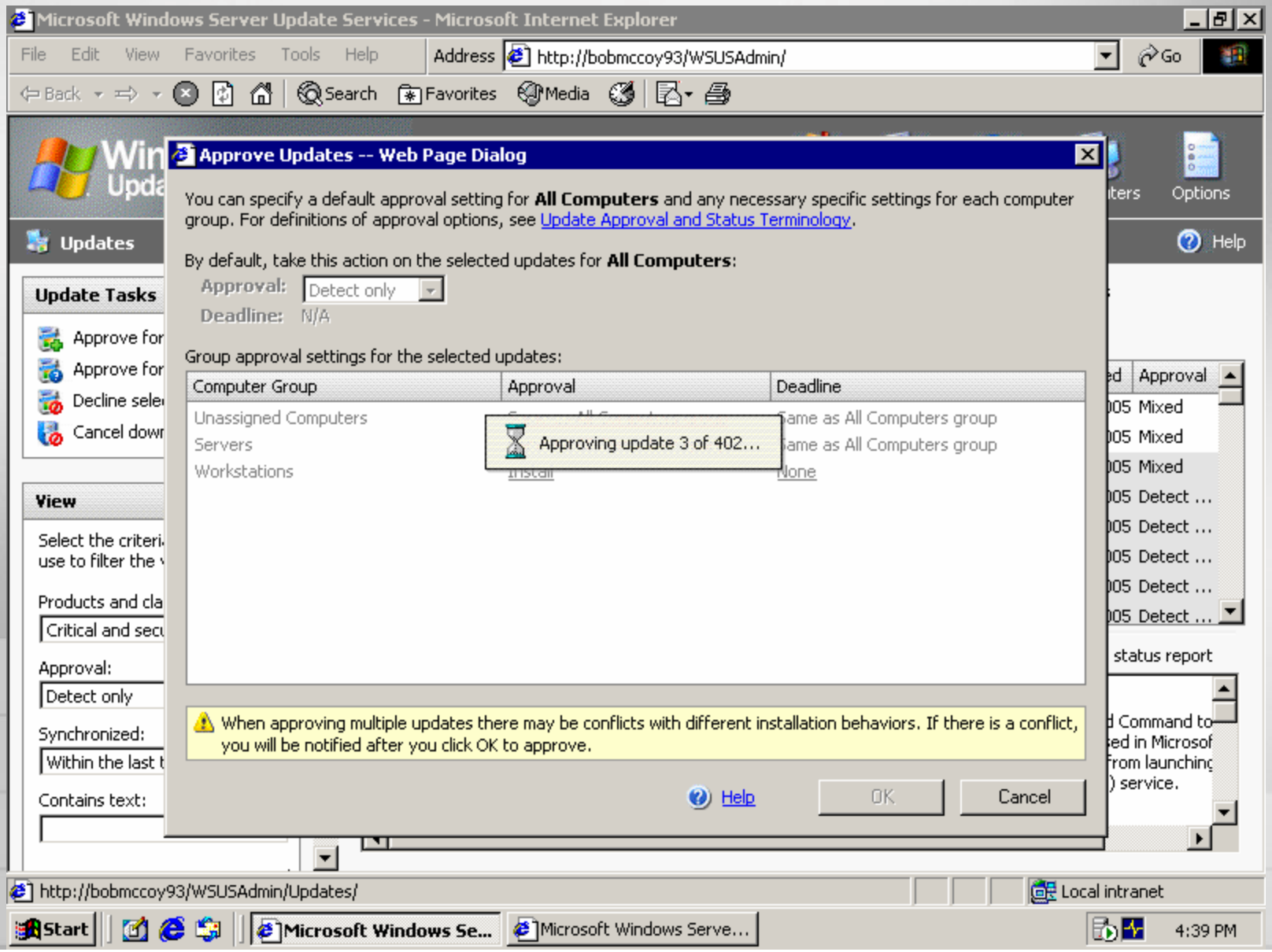

Comparing Microsoft Update, Windows Update Services, and SMS 2003

Adopt the solution that best meets the needs of your organization

Capability	Microsoft Update	Windows Server Update Services	SMS 2003
Supported Software and Content			
Supported Software for Content	Same as Windows Update Services + WinXP Home	Win2K, WS2003, WinXP Pro, Office 2003, Office XP, Exchange 2003, SQL Server 2000, MSDE	Same as Windows Update Services + NT 4.0 & Win98 + can update any other Windows based software
Supported Content Types for Supported Software	All software updates, critical driver updates, service packs (SPs), and feature packs (FPs)	All software updates, critical driver updates, SPs, & FPs	All updates, SPs, & FPs + supports update & app installs for any Windows based software
Update Management Capabilities			
Targeting Content to Systems	N/A	**Simple**	**Advanced**
Network Bandwidth Optimization	**Yes**	**Yes**	**Yes**
Patch Distribution Control	N/A	**Simple**	**Advanced**
Patch Installation & Scheduling Flexibility	Manual & end user controlled	**Simple**	**Advanced**
Patch Installation Status Reporting	Install errors reported to user. Lists missing updates for accessing computer	**Simple**	**Advanced**
Deployment Planning	N/A	**Simple**	**Advanced**
Inventory Management	N/A	No	**Yes**
Compliance Checking	N/A	**Simple**	**Advanced**

Choosing A Patch Management Solution

Typical Customer Decisions

Customer Type	Scenario	Customer Chooses
Large or Medium Enterprise	Want single flexible update management solution with extended level of control to update (+ distribute) ALL Windows OSes and Applications, as well as an integrated asset management solution	SMS 2003
	Want update management-only solution that provides simple updating for Microsoft software and initially supports Windows (Win2K & later versions), Office (2003 & XP), Exchange 2003, SQL Server 2000, and MSDE 2000	Windows Update Services*
Small Business	Have at least 1 Windows server and 1 IT administrator	Windows Update Services*
	All other scenarios	Microsoft Update*
Consumer	All scenarios	Microsoft Update*

*Customer uses Windows Update, another update tool, or manual update process for OS versions & applications not supported by Windows Update Services or Microsoft Update

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