



**FEATURE COMPARISON BETWEEN
WINDOWS SERVER UPDATE
SERVICES
AND SHAVLIK HFNETCHKPRO™**

Feature comparison between future version of Windows Update Services and Shavlik HFNetChkPro™

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Windows Update Services information obtained from <http://www.microsoft.com/wus>

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July 2004	Version 1.1	Updated estimated WUS ship date from Q4 2004 to 1H 2005
September 2004	Version 1.2	Updated to include additional comparison data
May 2005	Version 1.3	Updated

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	Windows Server Update Services (expected ship date: 2H 2005)	Shavlik HFNetChkPro 5 (available today)
Supported Products and Content Types		
Operating Systems	<ul style="list-style-type: none"> • Service Pack 3 and later versions of Windows 2000 Server (all editions) and Windows 2000 Professional • Windows Server 2003 all editions • Windows XP Professional and later versions 	<ul style="list-style-type: none"> • Windows NT 4.0 SP4 and later (all editions including Terminal Services Edition) • Windows 2000 (all service packs and all editions) • Windows XP Home Edition and Professional and later versions • Windows Server 2003 (all editions)
Servers and Applications	<ul style="list-style-type: none"> • All editions of Microsoft Office 2003 and Microsoft Office XP Service Pack 2 and above • Microsoft Exchange 2003* all editions • Microsoft SQL Server 2000 Desktop Engine (MSDE) • Microsoft SQL Server 2000 	<ul style="list-style-type: none"> • All editions of Microsoft Office 2003, Office XP, and Office 2000 (all service packs) • Microsoft Exchange 5.5, Exchange 2000, and Exchange 2003 (all service packs) • Microsoft SQL Server 7 and SQL Server 2000 all editions • Microsoft SQL Server Desktop Engine (MSDE) 1.0 and 2000 all editions • Commerce Server 2000 and 2002 all editions • ISA Server 2000 all service packs and all editions • BizTalk Server 2000, 2002, and 2004 all editions • Content Management Server 2001 and 2002 (Q1 '05) • Host Integration Server 2000, 2004, and SNA Server 4 • Internet Explorer versions 5.0, 5.01, 5.5, 6.0, and 6.0 for WS03 (all service packs) • Internet Information Services 4.0, 5.0, 5.1, and 6.0 (all service packs) • Microsoft Data Access Components (MDAC) versions 2.5, 2.6, 2.7, and 2.8 (all service packs) • Microsoft XML Services versions 3 and 4 • Microsoft Java Virtual Machine
Content Types	<ul style="list-style-type: none"> • Security updates • Non-security updates (critical and non-critical) and update rollups • Service packs • Feature packs* • Critical driver updates • Connectors (component designed to support connection between products.) • Drivers • Development Kits and Guidance • Tools 	<ul style="list-style-type: none"> • Security updates • Non-security updates (critical and non-critical) and update rollups • Service packs • Security configuration settings (Q3 '05) • Security Tools
Update Management Features		
Detecting Missing and Installed Updates	<ul style="list-style-type: none"> • Automatically detects the OS and supported products installed on each managed system and generates a report of missing updates for the OS & each supported product • Allows identification of all managed systems missing a specific update or set of updates 	<ul style="list-style-type: none"> • Automatically detects the OS and supported products installed on each managed system and generates a report of missing updates for the OS & each supported product • Automatically detects the OS and supported products installed on each managed system and generates a report of installed updates for the OS & each supported product • Allows identification of all managed systems missing a specific update or set of updates • Allows identification of all managed systems that have installed a specific update or set of updates • Validates each file in each patch to ensure that each patch is successfully installed and still valid
Downloading Updates from Microsoft	<ul style="list-style-type: none"> • Allows automatic or manual download of new updates from Microsoft • Can specify frequency (daily or weekly) for checking for and downloading new updates • Can specify the products and content types for which new updates should be downloaded 	<ul style="list-style-type: none"> • Allows automatic or manual download of new updates from Microsoft • Can specify frequency (hourly, daily or weekly) for checking for and downloading new updates (Q2 '05) • Can specify the products and content types for which new updates should be downloaded • Ensures authenticity of downloaded patches by checking the signature on the digital certificate on each patch
Targeting Updates	<ul style="list-style-type: none"> • Allows definition of groups of systems for targeting update management actions (install, uninstall, scan for missing updates, etc.) • Target groups can be defined based on server-side enumerated lists of systems or client-side registry settings that can be centrally configured via Group Policy in Active Directory environments 	<ul style="list-style-type: none"> • Allows definition of groups of systems for targeting update management actions (install, uninstall, scan for missing updates, etc.) • Target groups can be defined based on server-side specified lists of systems based on: domain name, hostname, IP address, IP range, Organizational Unit, or text files containing any of the above • Target groups can contain nested groups consisting of previously defined groups

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	Windows Server Update Services (expected ship date: 2H, 2005)	Shavlik HFNetChkPro (available today)
Distributing Updates	<ul style="list-style-type: none"> • Can specify the frequency with which managed systems should check for approved updates • Can specify that the list of approved updates be obtained from the Windows Update Services server, but actual updates are downloaded from worldwide Microsoft Update download servers • Automatically distributes the appropriate language version of updates to target systems but downloads all languages by default. 	<ul style="list-style-type: none"> • Can schedule regular scans and deployments of patches to specified machines • Can obtain patches from the Microsoft download center servers but distribute patches to remote systems from their closest available patch download repository • Automatically distributes the appropriate language version of updates to target systems • Supports patches for 13 different languages
Installing Updates	<ul style="list-style-type: none"> • Windows Update Services clients can be configured to automatically install downloaded updates on a specified install schedule or allow the user to select & control installation of downloaded updates • Administrators can specify a deadline by which an update must be installed and the system will force installation of the update accordingly • No reboot options. 	<ul style="list-style-type: none"> • Administrators can specify a deadline by which an update must be installed and the system will force installation of the update accordingly (Q2 '05) • Instructions for silent, unattended, no reboot deployments are automatically supplied for each installation • Full line of reboot options if a reboot is necessary
Network Optimization Features		
Network Resiliency	<ul style="list-style-type: none"> • Uses BITS to automatically resume downloading from point of network interruption once connection is re-established 	<ul style="list-style-type: none"> • Uses checkpoint/restart to automatically resume downloading from point of network interruption once connection is re-established
Network Transparency	<ul style="list-style-type: none"> • By default, by leveraging BITS, downloads are done in background mode using only the unused portion of network bandwidth, resulting in no impact on network performance 	<ul style="list-style-type: none"> • Using dynamic bandwidth throttling, downloads are done in background mode using only the unused portion of network bandwidth, resulting in no impact on network performance
Minimized Data Transmission Volumes	<ul style="list-style-type: none"> • Dramatically reduces data transmission volumes associated with update management via use of advanced binary delta updating and compression technologies 	<ul style="list-style-type: none"> • Dramatically reduces data transmission volumes associated with update management via use of advanced binary delta updating and compression technologies (when available from Microsoft)
Reporting Features		
Update Management Reports	<ul style="list-style-type: none"> • Standard update management reports provide status information on missing updates, update downloads, pending updates, and update installs, on a per update, per computer, or per group basis 	<ul style="list-style-type: none"> • Built-in update management reports provide status information on missing updates, installed updates, effectively installed updates, and deployment status on a per update, per computer, or per group basis. • Graphical reports show trend over time patch status on a per update, per computer, or per group basis • Reports can be automatically emailed to specified users before and after specific actions including patch scans and patch deployments • Reports can be exported to CSV, TSV, XML, HTML, RTF and PDF
Consolidated Reporting	<ul style="list-style-type: none"> • Reports provide a consolidated view of the entire Windows Update Services implementation – statistics from child servers are rolled up to the parent server 	<ul style="list-style-type: none"> • Multiple consoles can share the same report data
Log Data Storage	<ul style="list-style-type: none"> • Use of MSDE or SQL Server to store log and update management data increases reliability 	<ul style="list-style-type: none"> • For smaller deployments, use of JET database eliminates requirement for additional SQL Servers • For larger deployments, use of optional SQL Server database increases scalability, performance and reliability
User Experience Features		
One-click Client Configuration	<ul style="list-style-type: none"> • Allows easy configuration for clients not centrally configured via Group Policy or scripting 	<ul style="list-style-type: none"> • No client agents or configuration settings are required on remote systems
Silent Update Installs	<ul style="list-style-type: none"> • Updates not requiring a reboot on installation can be installed without user interruption 	<ul style="list-style-type: none"> • Updates not requiring a reboot on installation can be installed without user interruption • For those updates requiring a reboot, system restarts can be scheduled: at specific date and/or times, when the user logs off, or in a specified number of minutes, each of which can be overridden by the user (with the Shavlik HFNetChkPro administrator's approval)
Install Updates at System Shutdown	<ul style="list-style-type: none"> • For Windows XP Professional Service Pack 2 updates that need a reboot on install, the reboot can be deferred to occur at normal system shutdown, eliminating the need for any user interruption 	<ul style="list-style-type: none"> • For any version system, updates that need a reboot on install, the reboot can be deferred to occur at normal system shutdown or user logoff, eliminating the need for any user interruption
User Notification & Control over Installs	<ul style="list-style-type: none"> • When desirable, provides the ability to notify the user of new updates and / or control when updates are installed on the user's system 	<ul style="list-style-type: none"> • When desirable, provides the ability to notify the user of new updates and / or control when updates are installed on the user's system

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	Windows Server Update Services (<i>expected ship date: 2H, 2005</i>)	Shavlik HFNetChkPro (<i>available today</i>)
Warning of Impending Reboot	<ul style="list-style-type: none"> When the install deadline has passed or an update needs to be installed immediately, users receive notification of the impending reboot allowing them to save their work 	<ul style="list-style-type: none"> When the install deadline has passed or an update needs to be installed immediately, users receive notification of the impending reboot allowing them to save their work Users may choose to 'reboot now' or 'postpone the reboot' for a specified period of time, based on options supplied by the console administrator
Multi-Language Support	<ul style="list-style-type: none"> Automatically downloads the appropriate MUI pack and installs on the client if it is not already installed*. By default, all languages are downloaded to Server. 	<ul style="list-style-type: none"> Multi-language support is enabled for scanning and deployment
System Implementation and Security Features		
Automated Client Upgrade	<ul style="list-style-type: none"> The Windows Update Services client is included in Windows XP Service Pack 2. For systems with an older version of the client, administrators can configure the system so the new version of the client is automatically deployed to these systems. 	<ul style="list-style-type: none"> No client software is required. Scanning and deployment is enabled by default for all Windows NT 4.0 and later systems
Hierarchical Scale-out Server Deployment	<ul style="list-style-type: none"> Supports deploying a hierarchy of Windows Update Services servers – both independently administered servers that synchronize update content from a parent server and replica servers* that inherit content and administrative actions from a parent server – in distributed environment or load balancing scenarios. Each server must have its own SQL database. 	<ul style="list-style-type: none"> Supports deploying multiple scanning and deployment consoles as well as multiple, geographically diverse remote download center servers
Port Selection	<ul style="list-style-type: none"> Administrators can specify the port to be used for client-server communications 	<ul style="list-style-type: none"> Scans and deployments use standard operating system and services. Additional functions that use non-standard ports can be configured to use custom port numbers as required
Proxy Authentication	<ul style="list-style-type: none"> Allows specification of username and password to be used in authenticating to a firewall / proxy server that mediates connection to the Internet from the Windows Update Services server 	<ul style="list-style-type: none"> Allows specification of username and password to be used in authenticating to a firewall / proxy server that mediates connection to the Internet from the console system
Secure Communications	<ul style="list-style-type: none"> Communications between Windows Update Services servers and Microsoft Update download servers are encrypted Client-server and server-server communications can be configured to be encrypted* The administrative GUI is only available to administrators of the system on which SUS server is running. The GUI can be accessed remotely and can be configured to encrypt session communications 	<ul style="list-style-type: none"> Communications between the Shavlik HFNetChkPro console and the Shavlik XML servers use industry standard http with authenticated digital signatures and file certificates, and can be configured to use secure sockets layer (SSL) Client-server and server-server communications can be configured to be encrypted using IPsec The administrative GUI is only available to administrators of the system on which the application console is running. The GUI can be accessed remotely and can be configured to encrypt session communications
Server Identity Validation	<ul style="list-style-type: none"> Windows Update Services servers validate the identity of the upstream server from which update content is downloaded 	<ul style="list-style-type: none"> The application authenticates all data files and patch updates by checking the signature on the digital certificate on each file Client to console communication uses industry standard TLS (transport layer security) to encrypt all communication
Content Authentication	<ul style="list-style-type: none"> Windows Update Services servers check digital signatures on all downloaded files to ensure they are authentic Microsoft updates that have not been tampered with Windows Update Services clients verify authenticity & integrity of updates before installs 	<ul style="list-style-type: none"> The Shavlik HFNetChkPro console servers check digital signatures on all downloaded files to ensure they are authentic Microsoft updates that have not been tampered with The deployment process verifies the authenticity & integrity of updates before the install is performed
Administrative Productivity Features		
New Data Model	<ul style="list-style-type: none"> The new update management data model allows specification of relationships between updates (e.g., pre-requisites, bundle relationships, and supersedence), resulting in higher levels of automation and significantly reduced administrative effort 	<ul style="list-style-type: none"> Allows specification of relationships between updates (e.g., pre-requisites, bundle relationships, and supersedence), resulting in higher levels of automation and significantly reduced administrative effort
New Administrative GUI	<ul style="list-style-type: none"> The new administrative GUI provides an intuitive, unified console for managing the entire Windows Update Services environment. Administrators can quickly and easily get summary and detailed information on updates, approvals, target groups and managed systems, system health and update management statistics, etc. 	<ul style="list-style-type: none"> The Shavlik HFNetChkPro GUI provides an intuitive, unified console for managing the entire Windows Update Services environment. Administrators can quickly and easily get summary and detailed information on updates, approvals, target groups and scanned systems, system health and update management statistics, etc.
Active Directory Based Group Policy Integration	<ul style="list-style-type: none"> Enables scalable centralized administration of geographically distributed environments via Group Policy, allowing efficient configuration of Windows Update Services client settings such as target group specification, preventing end-user access to Windows Update, etc. 	<ul style="list-style-type: none"> Active Directory integration by specifying Organizational Units to automatically receive approved updates

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Client and Server APIs	<ul style="list-style-type: none"> Client and Server APIs allow command-line or programmatic access to Windows Update Services functionality, enabling the creation of scripts to automate administrative tasks 	<ul style="list-style-type: none"> Complete command line functionality to enabled local or remote scanning of specified systems, including XML, HTML, CSV, TSV, or database output of results
Backup and Recovery	<ul style="list-style-type: none"> All relevant system setting and status, update data and metadata, and update management status information stored in a SQL Server or MSDE database enabling reliable and efficient backup and recovery 	<ul style="list-style-type: none"> All relevant system setting and status, update data and metadata, and update management status information stored in a SQL Server or JET database enabling reliable and efficient backup and recovery
System Requirements & Language Support		
Server	<ul style="list-style-type: none"> Windows 2000 Server – all editions, with Service Pack 4 and later versions not including 64-bit editions Windows Server 2003 – all editions not including 64-bit editions Microsoft Internet Information Services (IIS) 5.0 and later versions ASP.NET version 1.1 – this will be automatically installed if it's not already on the system Microsoft SQL Server 2000 Service Pack 3 and later versions or Microsoft SQL Server 2003 or Microsoft SQL Server Desktop Engine (MSDE) 2000 Minimum RAM: 512 MB; Recommended RAM: 1 GB BITS 2.0 Localized for all Windows Server supported languages (English, German, Japanese for Beta version) 	<ul style="list-style-type: none"> Windows 2000 Professional or Server – all editions, Service Pack 3 and later versions not including 64-bit editions Windows XP Professional or Home Edition – not including 64-bit editions Windows Server 2003 – all editions not including 64-bit editions .NET Framework version 1.1 – this will be automatically installed if it's not already on the system MDAC 2.6 SP2 or later - - this will be automatically installed if it's not already on the system Minimum RAM: 256 MB; Recommended RAM: 512 MB or greater The Shavlik HFNetChkPro console is localized for English and Japanese languages
Client	<ul style="list-style-type: none"> Windows XP Professional and later versions not including 64-bit editions Windows 2000 Server and Professional – all editions (not 64-bit), Service Pack 4 and later versions Windows Server 2003 – all editions, not including 64-bit editions. 64-bit support expected with SP1 Localized for all Windows Client OS supported languages (English, German, Japanese for Beta version) 	<ul style="list-style-type: none"> Windows NT 4.0 Service Pack 4 and later (all editions including Terminal Services Edition) Windows 2000 Server and Professional – all editions (not 64-bit), all service packs Windows XP Professional - not including 64-bit editions Windows XP Home Edition (local management only) Windows Server 2003 – all editions, not including 64-bit editions. 64-bit support expected with SP1 Internationalized for all Windows Client OS supported languages

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