



## Citrix Presentation Server Comparative Matrix

FEATURE	DESCRIPTION	EDITION	CITRIX PRESENTATION SERVER™ 4.5	CITRIX PRESENTATION SERVER™ 4.0	CITRIX® METAFRAME® PRESENTATION SERVER 3.0	CITRIX® METAFRAME® XP	CITRIX® METAFRAME® 1.8
<b>APPLICATION DELIVERY</b>							
Application Virtualization	Consolidates applications and data in the datacenter and deliver virtualized applications to users — only screen displays, keyboard entry and mouse movements traverse the network. Provides IT with maximum control, and enables rapid delivery of applications to any location, any device over any network.	P/E/A/S	x	x	x	x	x
Application Streaming	Centralizes management of desktop applications, and isolates and streams them to users without worrying about application and system conflicts. With both streaming and application virtualization capabilities, Presentation Server can dynamically select the best application delivery method for the user, the application, the device or the network. Stream applications to mobile users who work offline, and for maximum control and security, virtualize applications that access confidential data.	P/E	x				
Application Hub	Centrally stores isolated applications that you want to deliver to users through either virtualization or streaming. Rapidly provisions applications and updates to Presentation Server farms without disrupting users or causing application or system conflicts. This feature greatly simplifies delivery and maintenance of applications across any size Presentation Server farm.	P/E	x				
Desktop Broker	Delivers three types of centrally hosted Windows XP or Vista-based desktops from Presentation Server. Desktops can be hosted on Virtual Machines or Blade PCs. Enables centralized delivery of best desktop to different types of workers: task-based, knowledge workers and power users.	P/E/A/S	x	x			
<b>ADVANCED APPLICATION COMPATABILITY</b>							
Isolation 2.0	The next generation of isolation technology accelerates performance of isolated applications and expands application compatibility. Isolation 2.0 is leveraged in Application Isolation Environments, Application Streaming and the Application Hub.	P/E	x				
Application Isolation Environment	Provides an isolated environment that contains all the files, registry settings, and named objects for an application, allowing applications that are incompatible with each other to safely run side by side. Also — allows applications that are not compatible to run in a multi-user environment to run on Citrix Presentation Server.	P/E	x	x			
Virtual IP Support	Using virtual IP addresses, an administrator can publish applications that require separate IP addresses per session whether for technical or licensing reasons. With virtual IP addresses, you can set aside a block of IP addresses for use by sessions that require them.	P/E/A	x	x			
Support for local TWAIN devices	Redirects client-connected TWAIN imaging devices (like document scanners) from the client to the server, regardless of connection type. This allows users to control client-attached imaging devices from applications that run on the server; the redirection is transparent.	P/E/A	x	x			

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<b>ADVANCED APPLICATION COMPATABILITY (Continued)</b>							
Support for ActiveSync	Allows the synchronization of a client-connected USB PDA device using application software running on the server rather than on the client device. This feature supports USB-tethered and Microsoft Windows powered PDAs that use ActiveSync as a synchronization agent.	P/E/A	x	x			
Bidirectional Audio	Bidirectional audio allows the use of client-side audio peripherals such as microphones and dictation hardware.	P/E/A	x	x	x		
Support for UNIX® Applications	Presentation Server 4.0 for UNIX ships with Presentation Server 4.5.	P/E		x			
<b>END-USER EXPERIENCE</b>							
SpeedScreen™ Progressive Display	Dramatically improves the performance and usability of graphics-intensive applications. Centrally manage applications such as healthcare PACS (picture archiving and communication systems) and GIS mapping application, while providing the speed and anywhere-access flexibility that users need.	P/E/A	x				
SpeedScreen Latency Reduction Manager	Provides mouse click feedback and local text echo, both of which reduce a user's perception of latency when typing and clicking.	P/E/A/S	x	x	x	x	x
SpeedScreen Browser Acceleration	Optimizes the responsiveness of graphics-rich HTML pages in published versions of Microsoft Outlook, Outlook Express, and Internet Explorer.	P/E/A/S	x	x	x	x	
SpeedScreen Multimedia Acceleration	Allows you to control and optimize the way Presentation Server passes streaming audio and video to users.	P/E/A	x	x	x		
SpeedScreen Flash Acceleration	Allows you to control and optimize the way Presentation Server passes Macromedia Flash animations to users.	P/E/A	x	x	x		
SpeedScreen Image Acceleration	Offers you a trade-off between the quality of photographic image files as they appear on client devices and the amount of bandwidth the files consume on their way from the server to the client.	P/E/A/S	x	x	x	x	x
Compression	Intelligently compresses data sent across the network for the best possible performance.	P/E/A/S	x	x	x	x	x
Priority Packet Tagging	Enables the prioritization of ICA® virtual channel traffic by third-party network in frastructure providers.	P/E/A/S	x	x	x	x	
Dynamic Session Resizing	Connect to any client with any color depth or resolution and the session will be resized accordingly. Also works when using Tablet PCs when re-orienting the screen.	P/E/A/S	x	x	x		
Workspace Control	Allows users to switch between devices and reconnect to an active or disconnected session on another client device without having to restart applications. The session is automatically transferred from one location and device to the other once the user logs in.	P/E/A	x	x	x		
Session Reliability	Allows work items to remain open when network connectivity is lost, and then seamlessly resumed when connectivity is restored.	P/E/A	x	x	x		
Auto Client Reconnect	In the event that a user connection gets temporarily disconnected, the ICA client will automatically attempt to reconnect to its disconnected, yet still active session.	P/E/A/S	x	x	x	x	

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<b>END-USER EXPERIENCE</b> (Continued)							
Always-on SSL VPN access	Automatically reconnects sessions after losing a connection or roaming between networks	P	x				
Application Publishing	Shows end-users which applications are available for use, whether delivered by virtualization or streaming. Users access published applications through the Web Interface or Program Neighborhood Agent.	P/E/A/S	x	x	x	x	x
Content Publishing	Extends the application publishing model to accommodate internal and external content (both documents and web sites) making end user access to information even more seamless.	P/E/A/S	x	x	x	x	
Content Redirection	Allows administrators to specify whether local or server applications are used to open content, no matter where it is stored. This provides users with tighter integration between local and server-based applications further reducing the need for additional training.	P/E/A/S	x	x	x	x	
Seamless Windows	Integrates local and remote applications into the local Windows desktop. Users can choose between the local and remote applications on the task bar without having to know anything about the location of those applications.	P/E/A/S	x	x	x	x	x
Desktop Integration via Program Neighborhood Agent	Access to published content can be tightly integrated into the end user's Window's desktop Neighborhood Agent so that remote resources are available from the Start menu and leverage the system tray just as local applications do.	P/E/A/S	x	x	x	x	
Conferencing Manager	Provides online conferencing/sharing of virtualized applications and information.	P/E/A/S	x	x			
Pass-Through Authentication	Provides the ability to pass the user's desktop password to the server. This reduces the need for multiple system and application authentication.	P/E/A/S	x	x	x	x	x
Microsoft Client Support	Supports all versions of Windows including Win32, WinCE, PocketPC and Win16.	P/E/A/S	x	x	x	x	x
Web Interface for Citrix Presentation Server	Provides secure access over the Internet to published applications and content based on user permissions.	P/E/A/S	x	x	x	x	
Multi-Lingual User Interface Support for virtualized & streamed applications	Provides one client package for all languages and allows user to specify language preference.	P/E/A	x				
Multi Language Support in Web Interface	Language packs are provided to localize the Web Interface into the following languages: English, German, Spanish, French, and Japanese.	P/E/A/S	x	x			
Multi-Monitor Support	Allows for spanning of the display across multiple monitors. Special enhancements in 4.0 enable: (1) top-left monitor does not have to be primary, (2) maximizing applications will not span all monitors, (3) error messages and context menus pop up in same monitor as the application.	P/E/A/S	x	x	x	x	
Local Resource Mapping	Provides ability to redirect most local resources into the session, including clipboard, audio, drives, printers, COM Ports.	P/E/A/S	x	x	x	x	x
Local Drive Access	Presentation Server supports local drive access on a variety of platforms including all versions of Windows, Mac and UNIX as well as server drive remapping to provide client drives using their native drive letters.	P/E/A/S	x	x	x	x	x

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<b>END-USER EXPERIENCE</b> (Continued)							
Local Printer Access	Provides local printer access on a variety of platforms including native drivers and Universal Printing.	P/E/A/S	x	x	x	x	x
<b>PRINTING</b>							
Universal Printer Driver	Enables consolidation all of your print driver requirements into one universal print driver. Greatly reduce bandwidth requirements for many non-PCL and non-PostScript desktop printers.	P/E/A/S				x	
Universal Printer Driver 2	UPD2 came out with XP Feature Release 3. Provides a single, universal print driver for color and high resolution printing to any client printer that supports color.	P/E/A/S			x	x	
Universal Printer Driver 3	New Universal Print Driver enhances all previous versions and enables files to print up to four times faster while using less bandwidth and memory. Users can use advanced printer functions like stapling and trays. Support for Citrix Proximity Printing ensures that users will be able to print to their closest printer without having to know the configuration of that printer.	P/E/A/S	x	x			
<b>MANAGEMENT</b>							
Application Performance Monitoring	Powered by Citrix EdgeSight software, the new monitoring capabilities in Presentation Server enable IT to quickly pinpoint and troubleshoot server, network and application programming issues that impact the user experience.	P	x				
Health Assistant	Strengthens system resiliency with Health Assistant capabilities that perform continuous server health checks and automatically initiate recovery procedures, minimizing the need for administrator intervention.	P/E	x				
Configuration Logging	Tracks changes made to the Presentation Server farm, by whom and at what time to simplify and accelerate troubleshooting. Invaluable for auditing and ensuring accountability when multiple administrators are maintaining Presentation Server.	P/E/A	x				
Active Directory Federation Services (ADFS) support	Makes it easier to extend application access to trusted partners. No longer is ADFS limited to Web applications-now you can provide federated access to any Windows application delivered by Presentation Server.	P/E/A	x				
Client Backup URL	Specifies a secondary Web Interface URL and automatically redirects traffic in the event of a primary URL disruption.	P/E/A	x				
Connection Policies	Provides a comprehensive policy subsystem that allows administrators to control access to Presentation Server resources with policies based on the user; user group, server groups, IP addresses and client names. This enables greater control over bandwidth limits, audio options and printing — helping to ensure that users get consistently good performance.	P/E/A/S	x	x	x		
System Monitoring and Reporting via Resource Manager for Citrix Presentation Server	Administrators can efficiently manage and monitor system resources and generate reports on application and server availability, configuration, performance, capacity, and maintenance. Can also be used to generate billing reports for departments using the infrastructure.	P/E	x	x	x	x	x

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<b>MANAGEMENT (Continued)</b>							
Enhanced Management Experience	Leverages a new comprehensive management interface that enables complete, single-point management of the entire Presentation Server farm including servers, applications, licenses, printers and users from any location. Multiple Citrix products can also be included and managed from a central location.	P/E/A/S	X	X	X	X	
Extended Shadowing Support	Provides support for a shadowing task bar, a shadowing indicator, one-to-many and many-to-one shadowing, cross-server shadowing, and provides support for logging of shadowed sessions.	P/E/A/S	X	X	X	X	X
Automatic Client Updates	Built-in support for automatic updating ensures that users have the latest version when they connect to the server — saving IT from updating each desktop manually.	P/E/A/S	X	X	X	X	X
Directory Support	Native support for Microsoft's Active Directory and Novell's eDirectory means that users logging in with credentials from these directory systems will be recognized and authenticated by Presentation Server.	P/E/A/S	X	X	X	X	
Unified Licensing	Presentation Server for Windows 2000 Server, Presentation Server for Windows Server 2003, Presentation Server for UNIX and Conferencing Manager now all share one license. Customers who have mixed environments no longer need to purchase multiple licenses. Additionally, this common licensing service provides a centralized place for entering licenses for all Citrix products.	P/E/A/S	X	X			
Installation Manager for Citrix Presentation Server	Includes utilities that ease the burden of installing and uninstalling applications in large server farms across the enterprise by automating the process with centralized configuration and delivery.	P/E	X	X	X	X	X
Integration with Network Management Consoles	Supports SNMP monitoring as well as native integration with third-party network management tools to provide easy integration into existing environments including: Microsoft Operations Manager, IBM Tivoli, HP OpenView™, CA Unicenter™	P/E	X	X	X	X	
Citrix Presentation Server Management Pack for Microsoft® Operations Manager 2000	Monitoring of MetaFrame XPe servers and server farms into Microsoft Operations Manager (MOM) 2000, the latest network and server management tool from Microsoft.	P/E	X	X	X	X	
Delegated Administration	Provides the ability to designate Citrix administrative tasks to users without having to add them to a domain administrative group.	P/E/A/S	X	X	X	X	
Printer Management	Provides advanced printer management that includes ability to map print drivers to different servers and easily replicate drivers from one server to another. Also, all complexities of dealing with print drivers can be eliminated using Citrix's Universal Printer Driver.	P/E/A/S	X	X	X	X	
Centralized Management Console	Comprehensive interface that enables complete, single-point management of the entire Presentation Server farm including servers, applications, licenses, printers and users from any location. Provides tight integration with Active Directory®.	P/E/A/S	X		X	X	
System Monitoring and Analysis	Allows administrators to efficiently manage and monitor system resources and to generate billing reports — based on costs such as CPU usage or connection time — for users, departments or domains. The base platform provides Performance Monitor which allows manual configuration of performance data.	P/E	X	X	X	X	

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<b>MANAGEMENT (Continued)</b>							
Report Center	All reports can be created, managed, and analyzed from one location in the MMC console.	P/E/A/S	X	X	X		
Remote Server Management	Remotely manage all Presentation Servers directly from an integrated user interface within the Management Console and connect to either the desktop or the console.	P/E/A/S	X	X	X	X	X
Connection Control	Allows you set a limit on the number of connections that each user can have simultaneously in the server farm. You can also limit the number of concurrent connections to specified published applications, and you can prevent users from launching more than one instance of the same published application.	P/E/A/S	X	X	X	X	
Management Pack for MOM 2005	Enables management of Presentation Server farm through Microsoft's MOM 2005 product using the new Microsoft Operations Console	Available as free download from mycitrix	X	X	X		
<b>PERFORMANCE AND SCALABILITY</b>							
Support for Windows Server 2003 x64 Edition	Supports this Microsoft 64-bit operating system and market-leading 64-bit server platforms, significantly increasing user density and application performance	P/E/A/S	X	X			
Enterprise Load Balancing	Built-in load balancing provides the best system performance by allowing administrators to configure balancing rules based on application user load, context switches, CPU utilization, disk data I/O, disk operations, IP address range, memory utilization, page faults, page swapping, schedule, and server user load. This flexibility means that there is no need for third-party load balancing solutions and assures customers of the best possible performance in the enterprise.	P/E/A	X	X	X	X	X
Load throttling	Prevents new servers from being overloaded when they first logon to the farm by automatically biasing server load. Creates a consistent, reliable user access experience	P/E/A	X				
CPU Utilization Management	Provides CPU distribution such that individual "power" users will not adversely affect other users on the same server. The technology controls processes from taking too much CPU at any given time, ensuring a consistent performance level for all users on the server.	P/E	X	X			
Virtual Memory Optimization	Improves overall performance by rebasing DLLs to better optimize the use of virtual memory on the server. The optimizations attempt to eliminate DLL memory mapping conflicts from process to process (app to app or session to session) which reduces the amount of page swapping.	P/E	X	X			
Multiple Farm Support	Supports multiple groups of servers (server farms) to provide customers with the most flexible options for deploying their servers. Farms can be structured to isolate specific applications. Built-in support for aggregation of published content, centralized management, and cross-farm load balancing ensures that almost any scenario can be supported.	P/E/A/S	X	X	X	X	
Enterprise-Class Scalability	Citrix has developed and tested Presentation Server in environments with over 1000 servers so that our customers can be assured that they can deploy this product in their enterprise and see the benefits.	P/E/A/S	X	X	X		

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<b>SECURITY</b>							
Application User Load	Limits the number users allowed to connect to a selected published application.	P/E/A	x	x	x	x	
SmartAccess	Powered by the Citrix Access Gateway product line of SSL VPN appliances, the new secure gateway solution provides SmartAccess granular access control policies and integrated endpoint analysis.	P	x				
Universal SSL VPN — supports all applications and protocols	The Secure Access client gives users access to any application by supporting all TCP and UDP protocols. Enables administrators to give users access to IT resources without the need for custom development, or the need to maintain both SSL and IPSec VPN infrastructures.	P	x				
Integrated endpoint scanning and extensible endpoint analysis	Clients are scanned against administrator-defined criteria to enforce proper configurations such as up-to-date security software and operating system versions. Endpoint analysis capabilities can be extended using industry-standard development tools.	P	x				
Single Sign-On	Secure application logons with Single Sign-On, powered by Citrix Password Manager. Enhances the security of all password-protected Windows applications delivered by Presentation Server with automated application logons, password policy control, and self-service password reset.	P	x				
Self-service Password Reset and Account Unlock	Allows users to reset their domain password or unlock their Windows account through Web Interface or from the control + alt + delete logon screen.	P	x				
Hot Desktop	Enables users who share workstations to logon/logoff in seconds instead of using a time-consuming, full Windows or Novell logon/logoff procedure.	P	x				
Advanced Encryption Standard Support	Provides high performance, standards-based encryption security using AES, required by many government agencies and other organizations with strict security requirements	P/E/A	x				
Trusted Server Configuration	Prevent users from accessing unauthorized servers. Similar to Internet Explorer's "trusted web sites" feature, Trusted Server Configuration helps lock down environments and increases administrator control.	P/E/A	x				
Two-Factor Authentication Support	Supports RSA SecurID® and SafeWord® SecureComputing tokens for two-factor authentication.	P/E/A/S	x	x	x	x	
SmartCard Support (including Common Access Card (CAC))	Support for Smart card authentication to Web Interface or Program Neighborhood Agent as well as pass through support for authentication to applications.	P/E/A/S	x	x	x	x	
Enhanced SmartCard Support	Applications that leverage SmartCards can be more fully supported through the elimination of application specific configurations and better support for a wide range of SmartCard hardware. Better PIN handling helps reduce the need to re-enter Smart Card credentials. SmoothRoaming now enables users to use their smart cards to log on and off automatically through Program Neighborhood Agent.	P/E/A/S	x	x			
Secure Gateway for Citrix Presentation Server	Secure Gateway encapsulates Presentation Server traffic in SSL to allow remote users to securely access published content while minimizing the cost & management of certificates. Using industry standards connections can traverse firewalls without the need to open additional ports.	P/E/A/S	x	x	x	x	

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<b>SECURITY (Continued)</b>							
TLS/SSL	Support for TLS/SSL encryption.	P/E/A/S	x	x	x	x	
Novell Directory Services (NDS) Support	Administrators can publish applications and content to Novell NDS users and groups of users. Support for seamless NDS authentication.	P/E/A/S	x	x	x	x	
HP Protect Tool Support	User logons and application launches using Win32 Clients or the Web Interface fully operate with HP Protect Tools, greatly enhancing joint solutions with HP.	P/E/A/S	x	x			
<b>USER CONNECTIVITY</b>							
Non-Administrator Client Installation	Eliminates the need to give users “Administrator” privileges in order to install the Presentation Server client, making it easier for users to access virtualized applications from any device, such as kiosks and business centers.	P/E/A	x				
Browser-only SSL VPN access	Allows users to access network file shares, Web email and internal Web sites from devices that are locked down and do not permit the downloading of any software.	P	x				
Web Interface for Remote Access	Web Interface for Presentation Server provides a rich web portal for end users that provides built-in support for two-factor authentication, offers simple customization through the management console (no coding necessary), and provides dynamic multilingual support. Web Interface for Presentation Server is built to leverage the extended features of Presentation Server (like SmoothRoaming™) without any custom coding and integration with most third-party portals is seamless. Users are able access all the benefits of Presentation Server from a rich, secured web application from any location.	P/E/A/S	x	x	x	x	
Universal Device Access	The Presentation Server client is available for a wide range of platforms including: DOS (16-bit and 32-bit), Windows (16-bit and 32-bit), Windows CE / PocketPC, UNIX, Linux, MacOS X, Java, IBM OS/2 Warp, EPOC / Symbian OS.	P/E/A/S	x	x	x	x	x
Microsoft Remote Desktop Client Support	Allows users to connect to Presentation Server using Microsoft Remote Desktop Client, enabling access from devices that are locked-down or where restrictions prevent the download of a Citrix client.	P/E/A/S	x	x	x		
Web Interface for SharePoint	Allows organization to publish applications using Presentation Server 3.0 or 4.0 through a SharePoint portal.	Available as free download from mycitrix	x	x	x		

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