



Citrix Presentation Server Comparative Matrix

VERSION	FEATURE	DESCRIPTION	ENTERPRISE EDITION	ADVANCED EDITION	STANDARD EDITION
ADVANCED SHADOWING:					
*	Cross-server shadowing	Allows an administrator on one server to take control of a user's MetaFrame session on another server.	X	X	X
*	Many-to-one shadowing	Allows several administrators to control the same user's MetaFrame session. This capability is useful in training environments.	X	X	X
*	One-to-many shadowing	Allows one administrator to take control of several users' MetaFrame sessions.	X	X	X
*	Shadowing indicator	Appears on users' screen during a shadowing session to show users that they are being shadowed.	X	X	X
*	Shadowing taskbar	Enables administrators to launch a shadowing session and take control of an end user's MetaFrame session. One administrator can shadow multiple MetaFrame sessions simultaneously.	X	X	X
APPLICATION MANAGEMENT:					
*	Anonymous user support	Designed primarily for applications published on the Internet or intranet, where explicit logon permissions are not required. Anonymous users are configured and administered as a single group—access rights and system permissions apply equally to all anonymous users.	X	X	X
*	Application publishing	Makes it easy for administrators to deploy applications across multiple servers from a single point by simply clicking to published applications on any server to any user.	X	X	X
*	Content publishing	Allows administrators to publish document files, media files, Web URLs and any other types of files from any network location. Icons for published content appear in Program Neighborhood on the Windows desktop.	X	X	X
*	Program Neighborhood®	Pushes native Windows® icons down to the desktop through the Program Neighborhood client or agent. Applications can be configured to appear within the Program Neighborhood client, off the Start menu or as a shortcut on the Windows desktop.	X	X	X
*	TCP-based browsing	Enables ICA clients to browse for published applications and desktops without relying on UDP broadcasts.	X	X	X
APPLICATION PACKAGING AND DELIVERY:					
*	Centrally install and uninstall applications	Eases the burden of installing and uninstalling applications in large server farms across the enterprise by automating the process with centralized configuration and delivery.	X		
*	Create logical server groups	Allows administrators to create server groups based on different categories, such as operating system, geographic location, department or other user-defined criteria, so administrators can precisely target application delivery to the desired servers.	X		
*	Customizable project details	Allows administrators to customize and plan during the creation of a package. Administrators can easily view all project settings, including file details, registry changes and target directories.	X		
*	Delivery verification	Allows administrators to easily verify the status of application delivery to target servers.	X		
*	Distribute service packs, updates and files	Enables administrators to publish applications, service packs, upgrades, application suites or other files to or from any MetaFrame XP Presentation Server on the network.	X		
*	MSI support	Enables administrators to easily deploy any application that provides Microsoft Installer Package (MSI) without the need for repackaging.	X		
*	Package applications, files and service packs	Allows administrators to install applications, files and service packs by creating packages that can be replicated to multiple MetaFrame XPe Presentation Servers.	X		

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(Continued)	APPLICATION PACKAGING AND DELIVERY:				
*	Package inventory	Allows administrators to easily inventory all applications delivered to a MetaFrame XP server. This is especially useful in tracking software deployed in large-scale, multiapplication environments.	X		
*	Packager rollback	Allows administrators to quickly wipe the slate clean on the packaging server following package creation to prepare for new installations.	X		
*	Schedule package delivery	Minimizes user disruption by allowing administrators to schedule installations to occur automatically during off-peak hours or on weekends.	X		
*	Server reboot support	Eliminates the need to do manual server reboots by scheduling when a server must automatically reboot. Users connected to the server are notified in advance prior to server rebooting.	X		
*	Support for the unattended installs	Allows administrators to install or uninstall applications (or any other software component) from unattended MetaFrame XP Presentation Servers.	X		
4.0	Application Isolation Environments	Provides a virtualization environment that does not allow direct access to files, the registry or named objects.	X		
4.0	Virtual IP Address Support	Creates a unique IP address for every session on a server.	X	X	
4.0	Web Interface Enhancements	Simplified customization of the Web Interface.	X	X	X
4.0	Enhanced Smart Card Support	Improves application support of smart cards by eliminating the need for specific application configuration.	X	X	X
	CENTRALIZED ADMINISTRATION:				
*	Active Directory™ support	Allows administrators to publish applications to Active Directory users and groups. Users can log on to MetaFrame XP Presentation Server using their full Active Directory-based username and password.	X	X	X
*	Novell® NDS® support	Allows users in Novell network environments to log on using their NDS credential to access applications and published content in MetaFrame XP Presentation Server farms.	X	X	X
3.0	User policies	Allows administrators to configure MetaFrame Presentation Server settings—such as time zone, printing and shadowing—for specific users and groups, server groups, IP addresses or client name.	X	X	X
*	Administrator toolbar	Allows Citrix administrators to quickly and easily access administration tools. With the click of a mouse, administrators can conveniently launch MetaFrame XP Presentation Server utilities.	X	X	X
*	Centralized Data Store	A central database for all configuration settings in the MetaFrame XP server farm. Servers connect to the data store and query it periodically to determine configuration changes.	X	X	X
*	Citrix administrative accounts	Enables organizations to assign Citrix administration privileges to only certain designated administrators without the prerequisite of domain, Active Directory or NDS administrator privileges.	X	X	X
*	Citrix Management Console	The command center for the entire MetaFrame XP Presentation Server farm.	X	X	X
*	Citrix Web Console	Can be installed on MetaFrame XP Presentation Servers that have Internet Information Server (IIS) 5.0 or later installed. Administrators can then monitor MetaFrame XP server farms from any workstation with a supported Web browser.	X	X	X
*	Connection control	Allows administrators to set a limit on the number of connections each user can have simultaneously in the server farm.	X	X	
*	CPU prioritization	Allows administrators to assign each published application in the farm a priority level for CPU access. This feature can be used to ensure that CPU-intensive applications in the server farm do not degrade the performance of other applications.	X	X	
3.0	Management Console for the MetaFrame Access Suite	Allows administrators to perform tasks from within the Microsoft Management Console (MMC).	X	X	X
3.0	Delegated Administration	Enables distribution of MetaFrame Presentation Server administrative responsibilities based on the needs of the business, segmented by device, location or function.	X	X	X

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(Continued) CENTRALIZED ADMINISTRATION:					
3.0	Custom Dashboard Views with Active Content	Provides administrators with a pictorial representation of the MetaFrame Presentation Server infrastructure, allowing them to visually confirm successful operations or immediately determine inconsistencies across the server farm.	X		
3.0	Report Center	Provides a robust set of predefined reports for application and server availability, configurations, performance and capacity, and maintenance that enables administrators to gather and analyze detailed information about their infrastructure.	X		
4.0	Multilanguage localization	Same infrastructure can be used in any country, regardless of the local language.	X	X	X
4.0	Easier Smart Card Support	Enhancements that automatically detect applications that are smart card-enabled.	X	X	X
4.0	Improved Smart Card PIN Handling	Improved PIN handling enables users to pass their credentials correctly through to new sessions on multiple servers, helping to eliminate failed logon attempts after successfully authenticating with an initial server.	X	X	X
4.0	Web Interface and Program Neighborhood® Agent administration in Access Suite Console	Web Interface and Program Neighborhood Agent are now administered through the Access Suite Console.	X	X	X
4.0	Support for HP Protect Tools (formerly known as HP Windows Secure Edition [SE])	Offers full support for farms running on Windows domains using HP Protect Tools.	X	X	X
4.0	Support for Operating System File Locking Rules	Client drive mapping for Citrix Presentation Server now supports and conforms to operating system file locking rules.	X	X	X
4.0	Presentation Server for UNIX	Both Windows and UNIX platforms are included in Presentation Server 4.0. These 2 platforms share Unified Licensing.	X		
CENTRALIZED LICENSE MANAGEMENT:					
*	Centralized license activation	Allows administrators to manage and activate user licenses from a single point. This simplifies license administration in server farms of all sizes.	X	X	X
*	Enterprise-wide license pooling	Allows administrators to efficiently use the MetaFrame XP license set. MetaFrame XP connection licenses are pooled among MetaFrame XP servers across the distributed enterprise and are not assigned to specific servers.	X	X	X
*	Plug-and-play licensing	Eliminates the need to re-enter and reactivate licenses when reinstalling a server because MetaFrame XP Presentation Server licenses are centrally stored and managed.	X	X	X
4.0	License Server Enhancements	The License Management Console can now be run with either Apache HTTP Server or Internet Information Services (IIS) as its Web server. Microsoft clustering is now supported as a high-availability solution for the license server.	X	X	X
CLIENT MANAGEMENT:					
*	Auto client update	Administrators simply install the latest version of the client software on the server, and the software is downloaded to ICA Client devices when users connect to the MetaFrame XP Presentation Server.	X	X	X
*	Business Recovery	Provides for the consistent connection to published applications in the event of a primary server farm disruption.	X	X	X
*	ReadyConnect™	Allows the ICA Client to be predefined with phone numbers, IP addresses, server names and connection options prior to first-time installation.	X	X	X
*	Web-based client installation	Allows administrators to install and update ICA Clients from a central Web server. If a user does not have an ICA Client, the Web-based ICA Client installation feature identifies the platform the user is on and offers the opportunity to automatically download and install the appropriate client.	X	X	X
3.0	MetaFrame Access Suite Licensing	Simplifies the use and tracking of licenses and eliminates the need to install, activate and manage individual MetaFrame Presentation Server licenses. Manages all MetaFrame Presentation Server licenses, including entry and activation from a single point.	X	X	X

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NETWORK MANAGEMENT:					
*	Access CMC from third-party management consoles	MetaFrame XPe Presentation Servers can be monitored and managed from leading third-party management platforms, such as HP OpenView, Tivoli NetView and CA Unicenter TNG.	X		
*	SNMP monitoring agent	Enables administrators to configure SNMP traps and alerts, thus providing additional monitoring capabilities.	X		
PRINTER MANAGEMENT:					
*	Citrix universal print driver	Consolidates print driver requirements into one universal print driver. It eliminates the need to install many separate printer drivers for diverse printing environments.	X	X	X
*	Printer auto creation log	Allows administrators to make printers already installed on client computers available in MetaFrame sessions. MetaFrame XP auto creates these client printers in MetaFrame sessions when users connect to servers in the farm.	X	X	X
*	Printer driver access control	Allows administrators to control the availability of printer drivers to users.	X	X	X
*	Printer driver replication	Replicates printer drivers across the MetaFrame XP Presentation Server farm, allowing administrators to install all required printer drivers on one MetaFrame XP server and distribute them to all servers across the enterprise.	X	X	X
*	Printing bandwidth control	Allows administrators to specify the amount of bandwidth that printing consumes—especially over low-bandwidth connections—so end users can remain productive while printing.	X	X	X
4.0	Updated Universal Print Driver (UPD)	Universal Printer Driver 3 enables Presentation Server to use the Windows Enhanced Metafiles Format (EMF) for transferring print jobs from client to server.	X	X	X
4.0	Session Printer Policies	New printer policies in Presentation Server that allow definition of default printer, list of available printers, and print settings to be configured based on the connection policy filters.	X	X	X
RESOURCE-BASED LOAD BALANCING:					
*	Instant load balancing feedback	Enables administrators to view real-time server statistics corresponding to load balancing rules selected on a per-server basis.	X	X	
*	Load balancing reconnect support	Allows end users to reconnect to disconnected, yet still active, load-balanced MetaFrame sessions.	X	X	
*	Schedule application availability	Enables administrators to accommodate for routine application and database maintenance by scheduling the availability of applications to users.	X	X	
*	Specify client IP range	Allows administrators to specify the range of client IP addresses that can or cannot connect to a given MetaFrame XP Presentation Server or farm, providing an additional level of security.	X	X	
SCALABILITY:					
*	Enterprise-class scalability	Easily expand as business requirements demand. MetaFrame XP Presentation Server can scale to support up to 1,000 servers in one centrally managed, load-balanced server farm.	X	X	X
*	Cross-subnet administration	Gives administrators the ability to manage MetaFrame XP Presentation Servers, users and applications across unlimited subnets.	X	X	X
*	Customized reporting	Can be used to review the system's status at a particular time, as well as examine user and application usage statistics.	X		
*	Perform system capacity planning	Determine the optimal system capacity for applications and users.	X		
*	Real-time graphing and alerting	Monitor the health and performance of MetaFrame XPe Presentation Servers. Administrators have a wide selection of alert mechanisms, including on-screen notifications, messages sent to mobile phones and SNMP traps.	X		
*	Server farm monitoring	Configure options for servers either individually or farmwide for the procedures that must occur when an alarm threshold is reached.	X		
*	Track user access to applications	Captures an audit trail of who accessed which applications and when.	X		
*	User-definable metrics	Allows administrators to select the specific counters they want to monitor and set custom thresholds.	X		

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VERSION	FEATURE	DESCRIPTION	ENTERPRISE EDITION	ADVANCED EDITION	STANDARD EDITION
(Continued)	SCALABILITY:				
*	Watcher window	Allows administrators to monitor the system without the need to maximize the Citrix Management Console on the desktop. A small watcher window occupies a corner of the screen to keep the administrator aware of alerts or problems.	X		
*	ICA® session monitoring	Allows administrators to use the Windows Performance Monitor utility to observe ICA communication, including bandwidth and compression, individual virtual channels, and latency in ICA sessions.	X		
3.0	Increased Large Server Farm Support	Presentation Server has been tested with a server farm of up to 1,000 servers.	X	X	X
4.0	CPU Utilization Management	Normalizes the usage of server resources by each user by smoothing out the normal CPU peaks that most applications have.	X		
4.0	Virtual Memory Optimization	Performs DLL rebasing for applications in order to reduce the amount of memory conflicts when loading DLLs.	X		
	WEB APPLICATION ACCESS:				
*	Web Interface	Allows interactive applications to be published to users through a Web portal.	X	X	X
*	Application filtering and caching	Enhances logon speed and usability.	X	X	X
*	Support for MetaFrame Secure Access Manager	Bridges the Windows and Web worlds and ensures the seamless delivery of Windows applications, Web applications and content into an easy-to-use browser interface.	X	X	X
	ACCESS TO LOCAL SYSTEM RESOURCES:				
*	Auto printer creation	Allows users to transparently access their local and network printers. Printers are configured automatically for Windows-based clients and are added to the client Print Manager.	X	X	X
*	Automatic drive redirection	Automatically recognizes end users' fixed and removable disk drives.	X	X	X
*	Client drive mapping	Allows users to transparently access their local drives when logged on to a MetaFrame session.	X	X	X
*	Clipboard redirection	Users can copy, cut and paste information via the Windows clipboard between applications running remotely on the MetaFrame XP Presentation Server or locally on the desktop.	X	X	X
*	COM port redirection	Enables applications running on a MetaFrame XP Presentation Server to access peripheral devices, such as scanners attached to COM ports on the client device.	X	X	X
	PERFORMANCE:				
*	Instant mouse-click feedback	Reduces latency while mouse-click changes are being transmitted from the MetaFrame XP Presentation Server.	X	X	X
*	Persistent bitmap caching	Allows the rapid display of data stream even over low-bandwidth connections.	X	X	X
*	Priority packet tagging	Enables the prioritization of ICA virtual channel traffic by third-party network infrastructure providers such as Packeteer.	X	X	X
*	SpeedScreen™ 3	Enhances the user experience with consistent performance regardless of network connection by reducing latency and improving the feel of the application.	X	X	X
*	Text-entry prediction	Enables users on restricted bandwidth connections to receive an instant response to typed data while the actual transmission from the server is completed.	X	X	X
3.0	SpeedScreen Acceleration: Images	Image rendering is accelerated and bandwidth consumption lowered by compressing files before sending to the client.	X	X	X
3.0	SpeedScreen Acceleration: Audio and Video	Rather than playing (decompressing and rendering) streaming audio and video (such as MPEG and WMV formats) on the server and then sending them across the network to the client, the compressed audio and video files are sent to the client first and then client-side resources are used to decompress and render the files.	X	X	
3.0	SpeedScreen Acceleration: Macromedia Flash	Flash Acceleration plays Flash animation in low-quality mode, speeds delivery of the animation, reduces server load and reduces network bandwidth consumption.	X	X	

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(Continued)	PERFORMANCE:				
3.0	Microsoft Remote Desktop Client (RDC) Support	Allows users to connect to MetaFrame Presentation Server without the need to install the MetaFrame Presentation Server client software.	X	X	X
3.0	Bidirectional Audio	Allows client-side audio peripherals such as microphones and dictation hardware, including Philips SpeechMike™ processing devices, to send audio to dictation applications running on a centralized server.	X	X	
	USER EXPERIENCE AND PRODUCTIVITY:				
*	High-/true-color depth and resolution	Provides support for high-color (65,000) and true-color (16 million) sessions, and screen resolutions up to 64,000 by 64,000 pixels.	X	X	X
*	16-bit audio support	Allows users to extend their desktop audio schemes to remote applications running on the MetaFrame XP Presentation Server.	X	X	X
*	Application save position	Remembers the application's previous size and position. During the next session, the client will open the application with the previously stored size and position values.	X	X	X
*	Client printer management utility	Provides a means to store printer properties on a per-client basis while simplifying printer configuration for non-Windows clients.	X	X	X
*	Client time zone support	Allows applications to run in the context of the user's local time zone, ensuring accuracy of records and appointments.	X	X	X
*	Content redirection	Enables opening of e-mail file attachments even if the required application is not installed on the local drive. The application will automatically run from Presentation Server if it is published.	X	X	server to client only
*	Multimonitor support	The ability to span multiple monitors simultaneously within a single session. This feature is especially beneficial to customers using financial and graphic design applications requiring extended monitor support.	X	X	X
*	Panning and scaling	Scaling involves shrinking the size of the MetaFrame session image to fit any client screen size. Panning moves a view window over a larger image so only a small portion is visible at any time.	X	X	X
*	Pass-through authentication	Provides the ability to pass the user's Windows desktop password to the MetaFrame XP server. This eliminates the need for multiple system and published application authentication.	X	X	X
*	Seamless windows	Integrates local and remote applications into a local Windows desktop. Users can choose between the local and remote applications on the task bar.	X	X	X
*	Win 16 multisession support	Expands the full functionality of MetaFrame XP to the Win16 client by allowing multiple concurrent MetaFrame sessions.	X	X	X
3.0	Dynamic Display Reconfiguration	Provides a smoother experience for users that switch between client devices with varying display modes by automatically reconfiguring the existing session's display mode to the reconnecting client device's capabilities and mode preference.	X	X	X
3.0	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.	X	X	
3.0	Session Reliability	Allows work items to remain open when network connectivity is lost, and then seamlessly resumed when connectivity is restored.	X	X	
3.0	Zone Preference and Failover	Allows administrators to specify users' preferred zone preference and failover zone within a server farm. In the event of failure, users experience seamless failover to the next appropriate set of servers.	X		
4.0	New Printer Driver	Print up to four times faster and access advanced printer functions like trays and stapling.	X	X	X
4.0	USB Synchronization for PDA Devices	Allows the synchronization of a client-connected USB Pocket PC device using ActiveSync software running on Citrix Presentation Server rather than on the client device.	X	X	
4.0	Support for Image Scanning Peripherals	Redirect client-connected TWAIN imaging devices, notably document scanners, from the client to the server, regardless of connection type.	X	X	

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(Continued)	USER EXPERIENCE AND PRODUCTIVITY:				
4.0	System performance gains	Processing performance has increased in two highly visible areas, thereby reducing user wait times.	X	X	X
4.0	Multilingual User Interface Support for Web Interface	A single version of the Web Interface for all languages. Dynamically changes its localization depending on the user's or administrator's preferences.	X	X	X
4.0	Smart Card Roaming	PN Agent now enables users to use their smart cards to log on and off automatically as they roam from device to device.	X	X	X
4.0	Conferencing Manager	Conferencing Manager as a product has been added to Presentation Server as a "feature" that provides published application sharing among individuals.	X	X	X
	UNIVERSAL CONNECTIVITY:				
*	Universal client access	MetaFrame XP Presentation Server provides support for more than 20 native Citrix ICA Client choices covering both Windows and non-Windows platforms.	X	X	X
*	Support for direct async dial-up	Eliminates the need to configure a RAS server or RAS on client computers, allowing users to connect directly to the MetaFrame XP Presentation Server.	X	X	X
*	Support for TCP/IP, IPX, SPX and NetBios	Support for multiple network protocol.	X	X	X
	SECURITY AND REGULATORY COMPLIANCE:				
*	Secure Gateway	An SSL gateway between MetaFrame XP Presentation Servers and ICA Client workstations that allows remote ICA users to simply and securely access MetaFrame published applications and content via the Internet.	X	X	X
*	SSL/TLS 128-bit encryption	Passes MetaFrame Presentation Server connections through Secure Socket Layer (SSL) or Transport Layer Security (TLS) protocol, and uses encryption modules certified with U.S. Federal Information Processing Standard (FIPS) 140 requirements.	X	X	X
*	Smart card support	Provides secure access to applications and data using smart card technologies.	X	X	X
*	SecureICA™ 128-bit encryption	Provides 128-bit encryption of data between the ICA Client and the MetaFrame XP Presentation Server.	X	X	X
*	SOCKS 4 & 5 support	Enables the ICA client to connect to MetaFrame Presentation Servers through firewalls where a SOCKS proxy server is available.	X	X	X
*	Ticketing	Eliminates the need for user credentials to be passed or stored on a client device and the need for credentials to be stored on the Web server.	X	X	X
3.0	FIPS-140	Passes MetaFrame Presentation Server connections through Secure Socket Layer (SSL) or Transport Layer Security (TLS) protocol, and uses encryption modules certified with U.S. Federal Information Processing Standard (FIPS) 140 requirements.	X	X	X
3.0	Section 508	MetaFrame Presentation Server supports Section 508 of the Rehabilitation Act, a government standard for accessibility.	X	X	X
4.0	RSA SecurID and SafeWord on UNIX Web Interface	RSA SecurID and SafeWord authentication to the Web Interface is now available on UNIX platforms.	X		

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