

# Citrix XenApp Comparative Feature Matrix

FEATURE	DESCRIPTION	EDITION	CITRIX XENAPP™ 5.0	CITRIX PRESENTATION SERVER™ 4.5	CITRIX PRESENTATION SERVER™ 4.0
<b>Dynamic Application Delivery</b>					
<b>Hosted and local application delivery</b>					
Hosted application delivery	Applications reside and execute on servers in the data center and are remotely displayed to users' desktops and other devices—only screen displays, keyboard entry and mouse movements traverse the network. Provides IT with maximum control, and enables rapid delivery of all Windows applications to any location and any device over any network.	P/E/A	✓	✓	✓
Local application delivery	Centralizes management of desktop applications, and isolates and streams them to users without application and system conflicts. With both server-side and client-side application virtualization, XenApp dynamically selects the best application delivery method for the user, the application, the device or the network. Applications streamed to mobile users allows for offline use.	P/E/A	✓	✓	
<b>Scenario-based delivery</b>					
Dynamic delivery determination	If local application delivery is not possible, XenApp automatically falls back to hosted application delivery without any user interaction. This ensures that users always get the application they need with the best performance possible.	P/E/A	✓	✓	
Policy-based access control	Policies enable administrators to control application delivery, availability and performance based on user, group, device or IP range. Policies can be used to enable access to peripherals (drives, printers, clipboard, audio, com ports), optimize performance (bandwidth limits, feature availability, latency reduction), and even connection limits (number of sessions per user, per application, or both)	P/E/A	✓	✓	✓

FEATURE	DESCRIPTION	EDITION	CITRIX XENAPP™ 5.0	CITRIX PRESENTATION SERVER™ 4.5	CITRIX PRESENTATION SERVER™ 4.0
<b>Mobile and offline access</b>					
Application streaming	Delivers applications on-demand to servers for hosted application delivery or directly to user devices for local application delivery. Enables rapid application delivery without the need to install applications on each target device.	P/E/A	✓	✓	
Alternate profile configuration	Administrators can manage a single application package across multiple application hubs across the network. Then, IP range rules can be created to direct users to stream the applications from the application hub that is closest to them and which will give them best performance. This feature also enables integration with Citrix Branch Repeater.	P/E/A	✓	✓	
Offline application availability	Administrators can configure users and groups that can use applications while disconnected from the corporate network. Applications are streamed to the users device and persist in a local cache. Users then access applications in the same manner as if they were installed, however, administrators retain centralized management.	P/E/A	✓	✓	
Application lease period	Administrators can set how long an application is available for offline use. Users must reconnect to the network prior to the end of the lease period or the application cannot be used. In this manner, administrators retain a level of license control within their environment.	P/E/A	✓	✓	
<b>Proven app compatibility</b>					
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. Allows applications that are not compatible in a Terminal Services environment to run on Citrix XenApp. Applications delivered locally to the users device behave as if they were installed with full peripheral, network and native OS support. Administrators can control the level of communication allowed between installed and isolated applications using isolation rules.	P/E/A	✓	✓	
Inter-isolation communication	Configure groups of applications that can communicate with one another while maintaining the compatibility benefits of each applications isolation environment.	P/E/A	✓		
IPv6 support	Allows IPv6-enabled clients to access XenApp hosted applications. Applications delivered locally retain their native support for IPv6.	P/E/A	✓		
Virtual IP Support	Applications that require separate IP addresses for each user session, whether for functional or licensing reasons, can be hosted and delivered with XenApp. Administrators can set aside a block of virtual IP addresses on the server for use by sessions that require them.	P/E/A	✓	✓	✓

FEATURE	DESCRIPTION	EDITION	CITRIX XENAPP™ 5.0	CITRIX PRESENTATION SERVER™ 4.5	CITRIX PRESENTATION SERVER™ 4.0
TWAIN device support	TWAIN imaging devices can be used with any application delivered via XenApp. This allows transparent use of client-attached imaging devices from applications that run on the server or those which are delivered locally.	P/E/A	✓	✓	
Support for ActiveSync	Client-connected USB PDA devices can be synchronized using Microsoft ActiveSync application software that is either hosted on the server or delivered locally.	P/E/A	Available on WS2003 only	✓	✓
Bidirectional Audio	Peripherals such as microphones and dictation hardware can be used with hosted or local applications delivered via XenApp.	P/E/A	✓	✓	✓
Local application delivery support for Windows XP/Vista	Stream applications to any Windows XP or Windows Vista device.	P/E/A	✓	✓	✓
Hosted application delivery from Windows Server 2008 and 2003	Host any application that is compatible with Windows Server 2008 or Vista and deliver it to any client device or operating system.	P/E/A	✓	✓	✓
Hosted application delivery from UNIX server operating systems	UNIX applications can be centrally hosted on UNIX-based XenApp servers and delivered to any client device or operating system.	P/E	✓	✓	✓

FEATURE	DESCRIPTION	EDITION	CITRIX XENAPP™ 5.0	CITRIX PRESENTATION SERVER™ 4.5	CITRIX PRESENTATION SERVER™ 4.0
<b>Single Instance Management</b>					
<b>Single instance application management</b>					
Application Hub	Application packages are stored in a centralized file share for delivery to servers or user devices. Rapidly provisions applications and updates to XenApp farms without disrupting users or causing application or system conflicts.	P/E/A	✓	✓	
Application Profile	A single application can have multiple variations for different Windows operating systems. With an application profile, each application is contained in a single, multi-platform package that can be delivered via XenApp to any user device – locally delivered to Windows devices or hosted on XenApp servers and delivered to any user device.	P/E/A	✓	✓	
Installation Manager for Citrix XenApp	Hosted applications can be installed directly on the server or streamed from the application hub. This feature enables administrators to automatically install applications across multiple server simultaneously or pre-cache application profiles on each server.	P/E	✓	✓	✓
<b>One-point application publishing</b>					
Application Publishing	IT can configure how applications are delivered to users and which users and groups can access them. This results in a personalized application list for each user with custom delivery options configured to optimize each application.	P/E/A	✓	✓	✓
Content Publishing	IT can configure links to internal and external content (both documents and web sites) and determine which users and groups can access them. This results in a list of key corporate content that is presented to users along-side the applications that are delivered by IT.	P/E/A	✓	✓	✓
<b>Single image server farm management</b>					
Provisioning services	Manage the entire XenApp farm of application hosting servers from a single standardized server image.	P	✓		
<b>Centralized updates and upgrades</b>					
Automatic synchronization	Applications can be patched, reconfigured or updated once, in the data center and users automatically synchronize these changes upon next connection	P/E/A	✓	✓	✓

FEATURE	DESCRIPTION	EDITION	CITRIX XENAPP™ 5.0	CITRIX PRESENTATION SERVER™ 4.5	CITRIX PRESENTATION SERVER™ 4.0
<b>Any Device, Anywhere</b>					
<b>Receiver plug-ins</b>					
Microsoft Client Support	Supports all versions of Windows including Win32, WinCE, Pocket PC and Win16.	P/E/A	✓	✓	✓
Non-Windows Client Support	Supports MAC, Linux and other non-Windows based client devices.	P/E/A	✓	✓	✓
Mobile Device Support	Supports small form factor devices such as Windows CE, Windows Mobile, Pocket PC and iPhone.	P/E/A	✓	✓	✓
Non-Administrator Client Installation	Eliminates the need to give users "Administrator "privileges in order to install the Citrix Receiver and XenApp plug-ins making it easier for users to access applications from any device.	P/E/A	✓	✓	
<b>Universal device support</b>					
Universal Device Access	The XenApp client is available for a wide range of platforms including: DOS (16-bit and 32-bit), Windows (16-bit and 32-bit), Windows CE / Pocket PC, UNIX, Linux, Mac OS X, Java, IBM OS/2 Warp, EPOC / Symbian OS.	P/E/A	✓	✓	✓
Microsoft Remote Desktop Client Support	Allows users to connect to XenApp 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	✓	✓	✓
<b>Browser-based access</b>					
Web Interface for XenApp	Provides a browser-based portal for accessing applications. Offers built-in support for two-factor authentication, simple customization through the management console and dynamic multilingual support. Integration with most third-party portals is seamless.	P/E/A	✓	✓	✓
Web Interface for Microsoft SharePoint™	Allows organization to deliver applications to users through a SharePoint portal.	P/E/A	✓	✓	✓

FEATURE	DESCRIPTION	EDITION	CITRIX XENAPP™ 5.0	CITRIX PRESENTATION SERVER™ 4.5	CITRIX PRESENTATION SERVER™ 4.0
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	✓	✓	
<b>Secure application access</b>					
Software-based application gateway	Allow remote users to securely access applications hosted on XenApp servers without the need for an SSL VPN. Proxies all hosted application traffic so that it can traverse firewalls without requiring additional ports to be opened.	P/E/A	✓	✓	✓
Secure application access	A full featured SSL VPN gives users access to any application or network resource by supporting all TCP and UDP protocols.	P	✓	✓	
SmartAccess	Provides granular access control policies and integrated endpoint analysis. Administrators have a single point of access control for all applications and resources - not just XenApp traffic.	P	✓	✓	
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	✓	✓	
Hot Desktop	Enables users to securely share workstations. Let's users logon/logoff in seconds instead of using a time-consuming, full Windows or Novell logon/logoff procedure.	P	✓	✓	

FEATURE	DESCRIPTION	EDITION	CITRIX XENAPP™ 5.0	CITRIX PRESENTATION SERVER™ 4.5	CITRIX PRESENTATION SERVER™ 4.0
<b>High Definition User Experience</b>					
<b>Citrix HDX technologies</b>					
HDX Mediadstream	Ensures that users receive a smooth, seamless experience with multimedia content as part of their virtual desktop or applications. This is accomplished by leveraging the processing power of the endpoint device to render the multimedia content. On the datacenter side, the compressed multimedia information is sent directly to the endpoint in its native format. The multimedia stream is rendered and played back locally, providing excellent performance while reducing the workload on the servers and the network.	P/E/A	✓	✓	✓
HDX Realtime	Enhances real-time communications by leveraging technologies at the endpoint and in the datacenter. HDX RealTime is supported by bi-directional audio capabilities. Users can connect audio peripherals such as microphones and dictation hardware at the endpoint device that interact with virtual applications and desktops hosted in the data center. On the server side, the real-time media stream is highly compressed and optimized to enable performance and clarity over the network.	P/E/A	✓	✓	✓
HDX 3D	Thinwire technology optimizes hosted application delivery to preserve the PC-like experience – as if applications were installed – and intelligently compresses data sent across the network for the best possible performance. Media such as Flash, images, and browser content is accelerated on-demand. Flash Acceleration allows control and optimization of how XenApp passes Macromedia Flash animations to users of hosted applications. Image Acceleration offers administrators a trade-off between quality and bandwidth performance for photographic images displayed in a hosted application environment. Browser Acceleration optimizes the responsiveness of graphics-rich HTML pages for Microsoft® Outlook®, Outlook Express and Internet Explorer® when they are hosted on XenApp servers.	P/E/A	✓	✓	✓
HDX 3D Progressive Display	Dramatically improves the performance and usability of server-hosted graphics-intensive applications. Centrally manage applications such as PACS (picture archiving and communication systems) and GIS mapping application, while providing speed and anywhere-access for users.	P/E/A	✓	✓	
HDX IntelliCache persistent object caching	Persistent object caching stores Windows objects or bitmaps to minimize re-transmissions of those objects within a hosted application session. Once the objects are cached, the server merely sends a numeric identifier to the client rather than redrawing and re-transmitting the objects. SuperCache technology improves user scrolling capability for hosted applications by storing display information for previously viewed regions in a local cache so that back and forth scrolling does not require redraw or retransmission from the server.	P/E/A	✓	✓	✓

FEATURE	DESCRIPTION	EDITION	CITRIX XENAPP™ 5.0	CITRIX PRESENTATION SERVER™ 4.5	CITRIX PRESENTATION SERVER™ 4.0
HDX Broadcast AutoOptimizer Engine	Automates WAN optimization and adaptively tunes for optimal performance based on real-time network and traffic conditions.	P	✓	✓	
HDX Broadcast Adaptive TCP Flow Control	Mitigates TCP penalties and maximizes bandwidth utilization for all communications across the WAN between branch offices and client devices.	P	✓	✓	
HDX Broadcast Multi-level Compression	Reduces data size for all WAN communications by up to 3500-to-1 by applying the optimal combination of multiple compression techniques.	P	✓	✓	
HDX Broadcast Instant mouse-click and text entry feedback	When interacting with hosted applications and desktops, this feature signals the user that their click has been registered and that processing is taking place. When typing, text appears on the users screen in real-time while the keystrokes are enroute to the server - producing a seamless experience.	P/E/A	✓	✓	✓
HDX Broadcast Auto-client reconnect	If a network disruption occurs, the client and the server automatically re-establish the connection to hosted applications, minimizing disruption to the user and avoiding the need to log back in to the session.	P/E/A	✓	✓	✓
HDX Broadcast Queuing and tossing	Intelligently analyzes the queue of drawing commands for hosted applications and omits those that are not needed to provide an accurate, responsive display to the user. By optimizing what commands need to be sent, this saves on network bandwidth and processing time on the client.	P/E/A	✓	✓	✓
HDX Broadcast Virtual channel bandwidth control	Allows IT to limit the amount of bandwidth consumed by each virtual channel within a hosted application session. IT can also limit the amount of bandwidth consumed by the entire ICA connection.	P/E/A	✓	✓	✓
HDX Broadcast Session Reliability	When accessing hosted applications in unstable network environments, the receiver and controller work together to maintain session operations. If connectivity is lost, the session is seamlessly resumed when connectivity is restored.	P/E/A	✓	✓	✓
HDX Broadcast Bandwidth estimator	Dynamically adjusts ICA bandwidth consumption to meet the needs of the available bandwidth. When bandwidth is scarce, the estimator causes ICA to limit bandwidth consumption to a minimum in order to be as thin as possible on the wire. When bandwidth is more plentiful, the estimator allows ICA to consume more bandwidth in order to maximize user experience.	P/E/A	✓	✓	✓
HDX Broadcast Priority packet tagging	Enables Citrix Branch Repeater™ and other WAN quality of service providers to prioritize ICA virtual channel traffic, including all communications for applications hosted on XenApp servers.	P/E/A	✓	✓	✓
HDX Broadcast Virtual channel prioritization	For hosted application delivery, this technology enables administrators to assign a processing and communication priority to each channel within the ICA protocol.	P/E/A	✓	✓	✓

FEATURE	DESCRIPTION	EDITION	CITRIX XENAPP™ 5.0	CITRIX PRESENTATION SERVER™ 4.5	CITRIX PRESENTATION SERVER™ 4.0
HDX Plug-n-Play Device mapping and Dynamic reconfiguration	Enables simple and seamless connectivity of peripherals and objects in the users local environment such as drives, clipboard, printers, COM ports, and audio. Even multiple monitors, up to 9 in total, can be mapped to the users session to allow hosted applications to span across a larger workspace. Furthermore, when users connect from any client, the color depth and resolution of the hosted application session will be adjusted automatically to match their local environment.	P/E/A	✓	✓	✓
HDX Plug-n-Play 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	✓	✓	✓
HDX Plug-n-Play ClearType font smoothing support	Ability to remote ClearType fonts used by applications like Office 2007 to provide a rich user experience on LCD displays (ie., laptops, flat screens etc).	P/E/A	✓	✓	
HDX-Plug-n-Play Special Folder Redirection	Enables special folders such as "My Documents" and "Desktop" to map to an ICA session automatically. The application can ask the operating system where an appropriate location for certain kinds of files can be found, regardless of what version, language or operating system is being used.	P/E/A	Windows Server 2008 ONLY		
<b>Better than installed user experience</b>					
Seamless Windows	Integrates local and hosted applications into the local Windows desktop so that applications look and feel just like locally installed applications.	P/E/A	✓	✓	✓
Desktop Integration	Applications and content delivered via XenApp can be tightly integrated into the end user's Window's desktop so that they are available from the Start menu and leverage the system tray just as local applications do.	P/E/A	✓	✓	✓
Content Redirection	Allows administrators to specify whether local or hosted applications are used to open content, no matter where it is stored. This ensures that users can open any content, file, or data even if the application needed to view it is not available on their local device.	P/E/A	✓	✓	✓
Always-on SSL VPN access	Automatically maintains an SSL VPN connection as users roam between networks or when users are connected via unreliable links.	P	✓	✓	
Universal Printer Driver	XenApp will make any printer that supports EMF, PCL and PostScript specifications available to users accessing hosted applications. This is enabled without the need to manage native printer drivers on XenApp servers. Users can even use advanced printer functions like stapling and trays.	P/E/A	✓	✓	✓
XPS Universal Print Driver	XPS is the new Microsoft XML paper specification supporting next generation of windows applications. XenApp will make any printer that supports this specification available to users when accessing hosted applications.	P/E/A	Windows Server 2008 ONLY		

FEATURE	DESCRIPTION	EDITION	CITRIX XENAPP™ 5.0	CITRIX PRESENTATION SERVER™ 4.5	CITRIX PRESENTATION SERVER™ 4.0
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	✓	✓	✓
Printer Management	Provides advanced printer management of native print drivers for hosted application session. This includes the ability to map drivers to different servers and easily replicate drivers from one server to another.	P/E/A	✓	✓	✓
Multi-Lingual User Interface Support for Virtualized Applications	Provides one client package for all languages and allows user to specify language preference.	P/E/A	✓	✓	
Multi Language Supporting 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	✓	✓	✓
<b>Integrated voice services</b>					
EasyCall voice services	Enables users to click any phone number in any application and initiate a phone call directly from their PC via the corporate VoIP telephony service, saving time and money and increasing productivity. Uses a free, Xen-based virtual appliance for integration with existing VoIP systems.	P/E/A	✓	✓	
Click-to-conference	Enables users to click any phone number in any application and initiate a conference call directly from their PC via the corporate VoIP telephony service, saving time and money when compared to pay-per-minute services.	P/E/A	✓	✓	
Address book lookup	Gives users one click access to the corporate address and phone book right from their desktop.	P/E/A	✓	✓	
<b>Profile management</b>					
Easy to implement and simple to maintain	Enables administrators to automatically migrate existing user settings and choose which profile information to keep or discard at a granular level. Profile management runs as a system service, and does not require any additional servers, services, databases or changes to logon scripts.	P/E	✓		
Reliable roaming experience	Ensures that personal settings, documents, shortcuts, templates, desktop wallpapers, cookies and favorites always follow the user across different Windows environments on any device.	P/E	✓		
Inclusion by default	All settings are captured by default, reducing the amount of time and effort spent in identifying what should be captured in a profile. Administrators only need to focus on the items to be excluded from a profile, such as conflicting settings, files or folders that bloat the profile.	P/E	✓		

FEATURE	DESCRIPTION	EDITION	CITRIX XENAPP™ 5.0	CITRIX PRESENTATION SERVER™ 4.5	CITRIX PRESENTATION SERVER™ 4.0
Profile size control	Enables administrators to only include specific files and folders or exclude unnecessary ones that account for tens or hundreds of megabytes, minimizing the amount of data being managed and stored in the profile, decreasing network overhead and reducing logon times.	P/E	✓		
Robust profiles	Automatically detects and stores all modified profile settings in the registry and file system and can be configured to capture any kind of registry and file system modification within the profile. Prevents the unintentional overwriting of user profiles by using built-in logic to determine which data should be kept.	P/E	✓		
Extended synchronization	Allows administrators to synchronize files and folders for applications that do not store user-related content within the user profile but somewhere on the device hard disk.	P/E	✓		
Detailed reports	Logs detailed information on all actions being performed in an easy to read and understand format, simplifying the troubleshooting and analysis process.	P/E	✓		

FEATURE	DESCRIPTION	EDITION	CITRIX XENAPP™ 5.0	CITRIX PRESENTATION SERVER™ 4.5	CITRIX PRESENTATION SERVER™ 4.0
<b>Secure by design</b>					
<b>Multi-factor authentication</b>					
Active Directory Support	Native support for Microsoft's Active Directory means that users logging in with credentials from these directory systems will be recognized and authenticated by XenApp.	P/E/A	✓	✓	✓
Active Directory Federation Services support	Makes it easier to extend application access to trusted partners. No longer is Active Directory Federated Services (ADFS) limited to Web applications-now you can provide federated access to any Windows application delivered by XenApp.	P/E/A	✓	✓	
Novell eDirectory and NDS Support	Native support for Novell's eDirectory and Novell Directory Services means that users logging in with credentials from these directory systems will be recognized and authenticated by XenApp. Note: XenApp 5.0 for Windows Server 2008 does not support NDS due to the lack of Novell client support for Windows Server 2008.	P/E/A	Window Server 2003 ONLY	✓	✓
Two-Factor Authentication	Supports RSA SecurID® and SafeWord® Secure Computing tokens for two-factor authentication.	P/E/A	✓	✓	✓
RADIUS support for Web Interface	Enables Web Interface to support any 3rd party 2-factor authentication product that supports generic RADIUS protocol.	P/E/A	✓		
Kerberos Authentication for Web Interface	Kerberos simplifies user authentication and reduces logon points while ensuring logon chain integrity.	P/E/A	✓		
Smartcard Support (including Common Access Card (CAC))	Support for Smart card authentication to Web Interface or XenApp hosted Application as well as pass through support for authentication to applications. Smooth Roaming enables user sessions to move with them between devices without having to restart anew at each device.	P/E/A	✓	✓	✓
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	✓	✓	✓
<b>Encrypted delivery</b>					
TLS/SSL Encryption	Support for Transport Layer Security (TLS) and Secure Socket Layer (SSL) encryption.	P/E/A	✓	✓	✓
AES support	Provides high performance, standards-based encryption using Advanced Encryption Standards (AES), required by many government agencies and organizations with strict security requirements.	P/E/A	✓	✓	

FEATURE	DESCRIPTION	EDITION	CITRIX XENAPP™ 5.0	CITRIX PRESENTATION SERVER™ 4.5	CITRIX PRESENTATION SERVER™ 4.0
HTTP/S for Streaming	Stream applications to servers and user devices via HTTP/S protocol. This ensures encrypted delivery and enables easier firewall traversal without the need to open non-standard communication ports.	P/E/A	✓		
Trusted Server Configuration	Similar to Internet Explorer's "trusted web sites" feature, Trusted Server Configuration prevents users from accessing unauthorized or untrusted servers.	P/E/A	✓	✓	
<b>Data centralization</b>					
Hosted application delivery	Applications can be configured to execute on the server with only mouse clicks and keystrokes sent to the user device. Delivery in this manner means that data is maintained in the data center.	P/E/A	✓	✓	✓
Peripheral connection control	Restricts whether hard drives, printers, com ports and clip board are mapped for a user while accessing hosted applications to prevent data download and copy from the data center.	P/E/A	✓	✓	✓
Folder redirection	Enables users My Documents folder to be mapped to a central file store to help maintain files in the data center.	P/E/A	Window Server 2008 ONLY		
Offline user groups	Enable only a subset of users to take applications offline, thereby mitigating the need for data and files to be transmitted to their local device.	P/E/A	✓	✓	
<b>Built-in password management</b>					
Single Sign-On	Secures application logons and enhances the security of all password-protected Windows applications.	P	✓	✓	
Password policies	Administrators can define policies to control application password strength for any application. Password expiration can also be controlled for any application that lacks this capability.	P	✓	✓	
Auto-application password change	When an application asks a user to change their password, XenApp can respond with a new password created based on rules that IT has configured.	P	✓	✓	
Self-service Password Reset	Allows users to reset their domain password or unlock their Windows account through Web Interface or from the control + alt + delete logon screen.	P	✓	✓	
<b>Activity Auditing</b>					
SmartAuditor	Provides powerful application session recording for improved regulatory compliance, risk mitigation, and accelerated problem resolution.	P	✓	✓	
Configuration Logging	Tracks changes made to the configuration of a XenApp server farm, by whom and at what time they were made to simplify and accelerate troubleshooting and ensure accountability.	P/E/A	✓	✓	

FEATURE	DESCRIPTION	EDITION	CITRIX XENAPP™ 5.0	CITRIX PRESENTATION SERVER™ 4.5	CITRIX PRESENTATION SERVER™ 4.0
<b>Enterprise-class Infrastructure</b>					
<b>Centralized management</b>					
Centralized Management Console	Comprehensive interface that enables complete, single-point management of the entire XenApp farm including servers, applications, licenses, printers and users from any location. Provides tight integration with Active Directory®. Multiple Citrix products can also be included and managed from a central location by creating a single Microsoft Management Console.	P/E/A	✓	✓	✓
Delegated Administration	Provides the ability to designate administrative tasks to users without having to add them to a domain administrator group.	P/E/A	✓	✓	✓
Remote Server Management	Remotely manage all XenApp servers directly from an integrated user interface within the Management Console and connect to either the desktop or the console.	P/E/A	✓	✓	✓
Management Pack for Microsoft Operations Manager (MOM) 2005 & 2007	Enables management of XenApp server farm through Microsoft's MOM 2005 and 2007 product using the Microsoft Operations Console.	P/E	✓	✓	✓
<b>Service level assurance</b>					
Load testing services	Create realistic test scenarios through a visual scripting interface. The scripts are then run against XenApp servers to simulate user activity and determine benchmark server capacity.	P/E	✓		
Application Performance Monitoring	Enable IT to quickly pinpoint and troubleshoot server, network and application performance issues that impact the user experience.	P	✓	✓	
System Monitoring and Reporting	Administrators can efficiently manage and monitor system resources and generate reports on application and server availability, configuration, performance, capacity and maintenance.	P/E	✓	✓	✓
Network Management Console Integration	Supports SNMP monitoring and integration with third-party network management tools, including: Microsoft Operations Manager, IBM Tivoli, HP OpenView™, CA Unicenter™.	P/E	✓	✓	✓
Shadowing for hosted applications	Administrators and support teams can view and control an active users session to assist with troubleshooting and problem resolution. Includes a shadowing task bar, shadowing indicator, one-to-many and many-to-one shadowing, cross-server shadowing and shadow session logging.	P/E/A	✓	✓	✓

FEATURE	DESCRIPTION	EDITION	CITRIX XENAPP™ 5.0	CITRIX PRESENTATION SERVER™ 4.5	CITRIX PRESENTATION SERVER™ 4.0
SmartAuditor	Provides policy-based recording of user sessions with hosted applications for improved regulatory compliance, risk mitigation and accelerated problem resolution.	P	✓	✓	
Configuration Logging	Tracks changes made to the configuration of a XenApp server farm, by whom and at what time they were made to simplify and accelerate troubleshooting and ensure accountability.	P/E/A	✓	✓	
Workflow Studio orchestration	A visual scripting tool designed to help automate common IT tasks and orchestrate the collaborative function of Citrix XenApp, XenDesktop, XenServer and NetScaler.	P/E/A	✓		
Multiple Farm Support	Supports multiple groups of servers (server farms) to provide customers with the most flexible deployment options. 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	✓	✓	✓
<b>Intelligent load management</b>					
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.	P/E/A	✓	✓	✓
Preferential Load Balancing	Enables administrators to prioritize a user/group and application based on pre-established requirements. Ensures sessions are appropriately balanced to provide enhanced user experience.	P	Windows Server 2008 ONLY		
CPU Utilization Management	Provides CPU distribution such that individual "power "users will not adversely affect other user son 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	✓	✓	✓
Virtual Memory Optimization	Improves overall performance by rebasing DLLs to better optimize the use of virtual memory. 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	✓	✓	✓
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	✓	✓	
Connection Control	Administrators can set a limit on the number of total simultaneous connections that each user can have to the server farm. Administrators can also prevent users from launching more than one instance of the same published application.	P/E/A	✓	✓	✓
Application User Load	Limits the number of users allowed to connect to each specific hosted application.	P/E/A	✓	✓	✓

FEATURE	DESCRIPTION	EDITION	CITRIX XENAPP™ 5.0	CITRIX PRESENTATION SERVER™ 4.5	CITRIX PRESENTATION SERVER™ 4.0
<b>High availability and failover</b>					
Scalable to thousands of servers	XenApp has been tested by both Citrix and within the enterprise with over 1000+ servers in a single implementation running over 50,000 user sessions.	P/E/A	✓	✓	✓
Health Assistant	Performs continuous server health checks and automatically initiates recovery procedures, minimizing the need for administrator intervention.	P/E	✓	✓	
Clean image reboot	Reboot a provisioned server to obtain a clean image in the event of OS corruption or failure.	P	✓		
Client Backup URL	Specifies a secondary Web Interface URL and automatically redirects traffic in the event of a primary URL disruption.	P/E/A	✓	✓	
Zone preference and fail-over	Establishes user sessions based on their proximity to and availability of a particular server or group of servers. This feature enables higher user and farm performance in implementations that span multiple data centers and eases disaster recovery and business continuity.	P/E	✓	✓	✓
<b>Dynamic virtualization platform</b>					
XenServer virtualization platform	Bare-metal hypervisor that enables virtualization of all components of Citrix XenApp as well as any other servers in your data center. Includes functions such as live migration of virtual workloads from one physical server to another without interrupting user operation.	P/E/A	✓		