



## Citrix XenApp<sup>®</sup> Comparative Feature Matrix

A list of features included in Citrix XenApp by product edition. Includes a comparison between XenApp 6.5, XenApp 6, XenApp 5, and Citrix Presentation Server<sup>™</sup> 4.5. Enables customers to compare XenApp by product edition including Platinum, Enterprise, Advanced and Fundamentals.

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# Self-service apps

System intelligence automatically determines the best fit method for virtualizing and delivering applications to users through a personalized and easy to use self-service storefront.

Feature	Description	Edition	XenApp™ 6.5	XenApp™ 6.0	XenApp™ 5.0	Presentation Server™ 4.5
<b>Self-service enterprise app store</b>						
Application subscription	Administrators can publish applications to specific users or groups and users can subscribe to the applications they need to work using a simple drag and drop interface.	P/E/A	●	●	●	●
Favorite applications	Citrix Receiver lets users define a list of favorite or frequently used applications for fast access. IT can configure featured applications for easy access to mission-critical programs.	P/E/A	●	●	●	●
<b>Intelligent application delivery</b>						
Dynamic delivery determination	If local application delivery is not possible, XenApp automatically falls back to server 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 control access to peripherals (drives, printers, clipboard, audio, com ports), optimize performance (bandwidth limits, feature availability, latency reduction), and even enforce connection limits (number of sessions per user, per application, or both)	P/E/A/F	●	●	●	●
Streamed App Accelerator	For published applications streamed by XenApp to pooled XenDesktop (VDI edition) desktops, application launch time is greatly reduced streaming profiles to a virtual hard disk (VHD). At first application launch, profiles in the VHD format on the AppHub are mounted to the pooled desktop instead of in the cache of the pooled desktop itself, so that subsequent launches occur twice as fast, even after log-off/log-on to the Desktop.	P/E/A	●			

Feature	Description	Edition	XenApp™ 6.5	XenApp™ 6.0	XenApp™ 5.0	Presentation Server™ 4.5
<b>Online and offline application access</b>						
Online app access with Session virtualization	Applications are installed or streamed to servers in the data center and are remotely displayed to users' desktops and devices. Only screen updates, keystrokes and mouse clicks traverse the network.	P/E/A/F	●	●	●	●
Offline app access with Citrix Streaming	The best way to deliver applications to Windows devices for use even while disconnected from the network. Applications and integrated Windows services are streamed to the users Windows desktop and are virtualized, not installed, and run in an isolated environment without application and system conflicts. Applications can safely communicate via inter-isolation communication technology.	P/E/A	●	●	●	●
Offline app access with Microsoft App-V	Deliver applications to Windows devices using Microsoft App-V application virtualization technology.	P/E/A	●	●	●	●
<b>Hybrid application hosting</b>						
Server-based session virtualization	The best way to deliver applications to any device, anywhere at the lowest cost. Applications are installed or streamed to Windows Server 2003/2008/2008 R2 servers in the data center and are remotely displayed to users' desktops and devices. Only screen updates, keystrokes and mouse clicks traverse the network.	P/E/A/F	●	●	●	●
VM hosted applications	The fastest way to deliver applications to any device, anywhere with the highest level of compatibility. Applications run on centralized Windows XP, Vista and Win 7 virtual or physical PC's (32 or 64-bit) in the data center and session virtualization technology remotely displays them to users' desktops and other devices. Only screen updates, keystrokes and mouse clicks traverse the network.	P/E	●	●	●	*
<b>Proven app compatibility</b>						
Deliver any application	Ensures the highest level of application compatibility compared to traditional application management. A broad set of technologies including session virtualization, app virtualization, isolation and profile management technologies converge to give IT the ability to deliver any application regardless of its native run-time requirements.	P/E/A	●	●	●	●

Feature	Description	Edition	XenApp™ 6.5	XenApp™ 6.0	XenApp™ 5.0	Presentation Server™ 4.5
Access applications on any device	Deliver any Windows application to any user device or operating system, including Windows, Mac, Linux, UNIX and even iPhone OS, Blackberry OS and Android without rewriting a single line of application code.	P/E/A/F	●	●	●	●
Use applications over any connection	Deliver network intensive and bandwidth sensitive applications to users over any network connection from dial-up, satellite or 3G link to wired Gigabit. XenApp makes the most network intensive applications usable over simple dial-up.	P/E/A/F	●	●	●	●

## Single Instance Management

Application and server images are stored, maintained and updated once in the datacenter and delivered on-demand. This simplifies management, avoids application conflicts and makes it easy to provide real-time updates.

Feature	Description	Edition	XenApp™ 6.5	XenApp™ 6.0	XenApp™ 5.0	Presentation Server™ 4.5
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### Single server image management

Provisioning services	Manage the entire XenApp farm of application hosting servers, both physical or virtual, from a single standardized server image.	P	●	●	●	*
Template-style configuration	Use Microsoft Group Policies to configure provisioned servers automatically or re-configure them on-the-fly.	P/E/A	●	●		

### Single application image management

App hub	A central location that acts as a single point of delivery for all applications.	P/E/A	●	●	●	●
Application profile	A package containing multiple variations of an application for different Windows operating systems. Profiles can be delivered to any device – locally delivered to Windows devices or hosted in the data center and delivered to any device.	P/E/A	●	●	●	●

Feature	Description	Edition	XenApp™ 6.5	XenApp™ 6.0	XenApp™ 5.0	Presentation Server™ 4.5
Installation manager	Installation manager enables IT to automatically and remotely patch or update installed applications across multiple servers simultaneously.	P/E	●	●	●	●
Connector for Microsoft® SCCM	XenApp Connector for Microsoft® System Center Configuration Manager (SCCM) enables administrators to use SCCM to publish applications to end users and install and maintain images on XenApp server farms.	P/E/A	●	●		
<b>Rapid updates and upgrades</b>						
Role-based installation	Intuitive, role-based product installation is built with provisioning in mind and enables easy and simple migration to the latest XenApp platform	P/E/A	●	●		
Live image updates	Application and server images can be updated without interrupting the production XenApp system. Server updates apply on next boot and application updates are applied the next time they are launched by a user.	P/E/A	●	●		
Instant application rollout and removal	Applications are configured for access and assigned to user groups. As soon as applications are published they can be accessed by users from any PC or mobile device without IT intervention. Applications can similarly be de-provisioned.	P/E/A/F	●	●	●	●
Automatic application synch and rollback	Applications can be patched, reconfigured or updated once, in the data center and users automatically synchronize these changes upon next connection. If an application update needs to be rolled back, users see the change upon next launch.	P/E/A	●	●	●	●
Application self healing	Faulty applications due to user error or file corruption are automatically “healed” upon next launch to avoid support issues.	P/E/A	●	●	●	●
<b>Policy-based application publishing</b>						
Application publishing	IT can create a personalized application list for users by configuring who can access each application, how it will be delivered and what the user experience will be.	P/E/A/F	●	●	●	●

Content publishing	IT can publish internal and external content (e.g. documents, web sites) and configure who can see them. Published content is presented along-side applications.	P/E/A/F	●	●	●	●
Active Directory Group Policy integration	Policy-style management enables IT to configure application availability and delivery using familiar Active Directory Group Policies and Local Group Policies. This enables fine-level control of applications and allows for easy control of thousands of applications delivered to thousands of users on thousands of servers.	P/E/A	●	●		
Application Lease Control	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	●	●	●	●

# Any Device, Anywhere

Users can simply and securely access applications instantly with a consistent high quality experience regardless of location or device.

Feature	Description	Edition	XenApp™ 6.5	XenApp™ 6.0	XenApp™ 5.0	Presentation Server™ 4.5
<b>Universal device support</b>						
Universal Device Access	Citrix online plug-in for accessing hosted applications is available for a wide range of platforms including: DOS, Windows XP, Vista, Win7, Windows Mobile, Mac OS X, iPhone, Linux, Android, UNIX, Java, IBM OS/2 Warp, Blackberry, and EPOC / Symbian OS. (Refer to the <a href="#">Client feature matrix</a> for feature availability by platform)	P/E/A/F	●	●	●	●
Microsoft Remote Desktop Client support	Allows users to connect to XenApp using the Microsoft Remote Desktop Client, enabling access from Windows devices that are locked-down and which may not support Java.	P/E/A/F	●	●	●	●
Non-admin client installation	Eliminates the need to give users “Administrator ”privileges in order to install XenApp plug-ins in order to simplify application access.	P/E/A/F	●	●	●	●
<b>Secure application access</b>						
Secure application access	A full featured SSL VPN gives users access to any application or network resource including applications delivered via Citrix XenApp.	P	●	●	●	●
Application gateway	Hardware and software-based SSL-proxy that allows remote users to securely access data center hosted applications delivered via XenApp. All hosted application traffic is proxied to enable firewall traversal without requiring additional ports to be opened.	P/E/A/F	●	●	●	●

Feature	Description	Edition	XenApp™ 6.5	XenApp™ 6.0	XenApp™ 5.0	Presentation Server™ 4.5
SmartAccess	Provides granular access control policies and integrated endpoint analysis for users accessing applications via SSL VPN. Administrators have a single point of access control for all applications and resources - not just XenApp traffic.	P	●	●	●	●
Endpoint scanning and extensible analysis	Clients are scanned against administrator-defined criteria to enforce proper configuration such as up-to-date security software and operating system hotfixes. Endpoint analysis 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	●	●	●	●
<b>Receiver integration</b>						
Citrix Receiver	A single client interface that automatically installs and configures client devices to access applications and resources meant specifically for authenticated users.	P/E/A	●	●	●	●
Auto-updating client software	Through Citrix Receiver, XenApp plug-ins for a variety of application access, security and performance management functions are automatically updated to the latest version without IT intervention.	P/E/A	●	●	●	●
<b>Browser-based access</b>						
Web interface	A browser-based interface for accessing applications. Offers built-in support for two-factor authentication, simple customization through the management console and multilingual support. Integration with most third-party portals is seamless.	P/E/A/F	●	●	●	●
Support for Microsoft SharePoint	Allows organization to add Web interface functionality to Microsoft SharePoint to deliver applications to users through a SharePoint portal.	P/E/A	●	●	●	●
Client-less 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	●	●	●	●

# High Definition User Experience

Virtualized applications deliver a high performance, high definition user experience from any device, on any network – even for graphic-rich and multimedia content. Users are assured a seamless experience with zero downtime and higher overall productivity.

Feature	Description	Edition	XenApp™ 6.5	XenApp™ 6.0	XenApp™ 5.0	Presentation Server™ 4.5
<b>Citrix HDX technology</b>						
HDX MediaStream	Ensures that users receive a smooth, seamless experience with multimedia content when accessing virtual applications. This is accomplished by leveraging the processing power of the endpoint device to render the multimedia content whenever possible. If client-side rendering is not available, server-side HDX MediaStream falls back to server-side rendering and uses various acceleration technologies to maintain an optimal user experience. Formats supported include Flash, DIVX, XVID, MPEG 4, MPG, WMV, AC3, WMA, MP3, and MPEG 1.	P/E/A/F	●	●	●	●
HDX MediaStream for Flash	Whenever possible, Flash content accessed via server hosted applications, including video and flash-based applications, is offloaded from the server and redirected to the user's PC for processing and rendering which reduces resource consumption on the server and improves performance for users.	P/E/A/F	●	●	●	*
HDX MediaStream for Flash v2	Version 2 of HDX MediaStream for Flash adds improved performance for WAN connected users as well as Linux device support so that Adobe® Flash® content can be redirected to the user device for local rendering in many more cases than before, resulting in even higher server scalability and a great user experience even at up to 300ms round-trip latency.	P/E/A	●			
HDX RealTime	Bi-directional audio capabilities enhance real-time communications by leveraging technologies at the endpoint and in the datacenter. Users can connect audio peripherals such as microphones and dictation hardware at the endpoint device that interact with virtual applications hosted in the data center. On the server side, the media stream is highly compressed and optimized to enable performance and clarity over the network.	P/E/A/F	●	●	●	●
HDX RealTime audio	Enhanced audio codec reduces bandwidth consumption of audio streams by 90% while preserving CD quality sound.	P/E/A/F	●	●		

Feature	Description	Edition	XenApp™ 6.5	XenApp™ 6.0	XenApp™ 5.0	Presentation Server™ 4.5
HDX RealTime collaboration	Support for Microsoft OCS enables audio and video conferencing while hosting Microsoft Office Communicator securely in the data center. Additionally, softphone compatibility enhancements like echo cancellation allow softphones to be hosted centrally on XenApp servers for delivery and use anywhere.	P/E/A/F	●	●		
HDX 3D	Thinwire technology optimizes the delivery of graphics-intensive hosted applications to preserve the PC-like experience – as if applications were installed – and intelligently compresses data sent across the network for the best possible performance. Image Acceleration offers administrators a trade-off between quality and bandwidth performance for photographic images. Browser Acceleration optimizes the responsiveness of graphics-rich HTML pages. Progressive display technology (available in 4.5 and higher) dramatically improves the performance of server-hosted graphics-intensive applications such as PACS (picture archiving and communication systems) and GIS (geographic information systems) apps.	P/E/A/F	●	●	●	●
HDX IntelliCache	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 improves user scrolling for content accessed via a hosted web browser. It stores display information for previously viewed regions of web pages in local cache so that back and forth scrolling does not require redraw or retransmission from the server.	P/E/A	●	●	●	●
HDX Broadcast	Optimizes the reliability and performance of hosted virtual applications over any network with technology such as instant mouse and text entry feedback, auto-client reconnect, virtual channel bandwidth control and prioritization, session reliability, priority packet tagging and dynamic bandwidth estimation. HDX Broadcast enables a high definition user experience for users accessing applications – whether on the corporate network or from the Internet.	P/E/A/F	●	●	●	●

Feature	Description	Edition	XenApp™ 6.5	XenApp™ 6.0	XenApp™ 5.0	Presentation Server™ 4.5
HDX Broadcast Branch optimization	Powered by Citrix Branch Repeater®, these features automatically adapt and tune WAN communications. Auto-optimizer adaptively tunes for optimal performance based on real-time network and traffic conditions. Adaptive TCP flow control mitigates TCP penalties and maximizes bandwidth utilization for all communications across the WAN between branch offices and client devices. 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 Plug-n-Play Device mapping and dynamic reconfiguration	Enables simple and seamless connectivity of peripherals and objects in the users' local environment such as USB devices, drives, clipboard, printers, COM ports, and audio. Even user environment settings such as ClearType support (4.5 or higher) and multiple monitors, up to 9 in total, can be mapped to the users session to allow hosted applications to span across a larger workspace with support for up to 32-bit color depth (32-bit color depth available with XenApp 6.0 only). 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. Workspace control technology enables users to automatically transfer their sessions from one location or device to another by simply logging in.	P/E/A	●	●	●	●
HDX Plug-n-Play USB for mass storage devices	Enables users to connect USB 1, 2 and U3 drives to their PC and automatically maps them to their server-hosted application session to preserve the user experience that users would have when using these devices on their local PC with installed apps.	P/E/A/F	●	●	●	*
HDX Plug-n-for Windows portable USB devices	Enables users to connect Microsoft Windows portable USB devices - such as point-of-sale devices, Webcams, scanners and digital cameras - to their PC and automatically maps them to their server-hosted application session to preserve the user experience that users would have when using these devices on their local PC with installed apps.	P/E/A/F	●	●		
HDX Plug-n-Play Multi-user interface	Multi-user Interface (MUI) support enables users to connect to any server and receive their application session in the native language set on their desktop. This provides the experience users expect while reducing the number of servers needed to provide native language support in global organizations.	P/E/A	●	●		

Feature	Description	Edition	XenApp™ 6.5	XenApp™ 6.0	XenApp™ 5.0	Presentation Server™ 4.5
HDX Plug-n-Play Special folder redirection	Enables special folders such as a users unique "My Documents" and "Desktop" folders to map to hosted application session automatically.  Note: XenApp Fundamentals edition available with version 3.0 only.	P/E/A/F	●	●		Windows Server 2008 ONLY
<b>Better than installed user experience</b>						
Instant App Access	Improves productivity and user experience by dramatically reducing the time it takes for users to launch applications. Session Pre-Launch shortens the time to application launch by creating a session immediately upon user log-in. Session Linger shortens app launch time by keeping a session alive for an admin controlled time period. Fast Re-connect shortens the time to re-connect to a session that had been disconnected.	P/E/A	●			
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/F	●	●	●	●
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	●	●	●	●
Enhanced Desktop Experience	Combines the look and feel of an updated Windows Desktop with the ease of management and cost effectiveness of a Windows 2008 R2 Hosted Desktop delivered by XenApp.	P/E/A	●			
Content redirection	Administrators can configure whether local or hosted applications are used to open content. This ensures that users can open any content, file, or data – no matter where it is stored - even if the app needed to view it is not available on their device.	P/E/A	●	●	●	●
Multi-Stream ICA	Provides the option of delivering ICA over up to four TCP/IP streams. This will give customers full flexibility for Quality of Service (QoS) routing over the network and provide superior audio/visual quality without disrupting other HTTP traffic.	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	●	●	●	●

Feature	Description	Edition	XenApp™ 6.5	XenApp™ 6.0	XenApp™ 5.0	Presentation Server™ 4.5
Universal printer driver	XenApp will make any printer that supports XPS (Windows Server 2008 only), EMF, PCL or PostScript available to users accessing hosted applications 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/F	●	●	●	●
Built-In Printing Optimization	Up to 90% reduction in bandwidth required for printing. Delivers dramatically faster print times and improved experience over the WAN.	P/E/A	●			
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 sessions. This includes the ability to map drivers to different servers and easily replicate drivers from one server to another.	P/E/A/F	●	●	●	●
Multi-lingual user interface support	Provides one client software package for all languages and allows user to specify language preference.	P/E/A/F	●	●	●	●
Multi language support for Web interface	Language packs are provided to localize the Web Interface into the following languages: English, German, Spanish, French, Japanese, Chinese (simplified and traditional) and Korean.	P/E/A/F	●	●	●	●
<b>Profile management</b>						
Easy setup	Runs as a system service, and does not require any additional servers, services, databases or changes to logon scripts.	P/E	●	●	●	
Profile data capture	Auto-detects and stores modified profile settings in the registry and file system and captures any modifications within the profile, preventing unintentional overwriting of user profiles using built-in logic to determine what data should be kept.	P/E	●	●	●	
User profile streaming	Loads user profile settings on-demand rather than during logon. Administrators can specify rules for downloading and caching large profile components in the background. This reduces logon time and accelerates application access.	P/E	●	●	*	*

Feature	Description	Edition	XenApp™ 6.5	XenApp™ 6.0	XenApp™ 5.0	Presentation Server™ 4.5
Inclusion and exclusion rules	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	●	●	●	
Extended synchronization	Allows IT 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	●	●	●	
<b>EasyCall voice services</b>						
Click-to-call	Users click any phone number on their desktop and initiate a call from anywhere using the corporate telephony system rather than their personal phone. This saves time, increases productivity and saves money by leveraging corporate calling rates.	P/E/A		●	●	●
Call redirection and Find me	Users receive office calls on any phone without the need for a softphone. The system finds users by dialing phone numbers they have configured in the order they specify. In this way, users can work from anywhere and business becomes more responsive.	P/E/A		●	●	●
Click-to-conference	Users click any phone number in any application and initiate a conference call directly from their PC via the corporate telephony system, saving time and money when compared to pay-per-minute services.	P/E/A		●	●	●
Click-to-call the helpdesk	Enables IT to embed a URL in any web page which, when clicked by the user, initiates a call between the helpdesk and the phone they specify. This works even for users that do not have the voice services plug-in installed.	P/E/A		●	●	●
Easy setup	EasyCall voice services is packaged as a free, Xen-based virtual appliance that easily integrates into any infrastructure and can be configured to leverage most common corporate Voice over IP systems.	P/E/A		●	●	●

# Secure by Design

Centralized application management is the most secure architecture for delivering applications. Data remains in the datacenter while only screen updates, mouse clicks and keystrokes transit the network. Centralized password control, multi-factor authentication, encrypted delivery and a hardened SSL VPN appliance eliminate the chance for loss or theft of data.

Feature	Description	Edition	XenApp™ 6.5	XenApp™ 6.0	XenApp™ 5.0	Presentation Server™ 4.5
<b>Data protection</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 and never on the users' device where it is at higher risk of being lost or stolen.	P/E/A/F	●	●	●	●
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/F	●	●	●	●
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/F	●	●	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>Encrypted delivery</b>						
TLS/SSL Encryption	Support for Transport Layer Security (TLS) and Secure Socket Layer (SSL) encryption ensures that all application delivery communications are secure.	P/E/A/F	●	●	●	●
AES support	Supports Advanced Encryption Standards (AES), required by many government agencies and organizations with strict security requirements.	P/E/A/F	●	●	●	●

Feature	Description	Edition	XenApp™ 6.5	XenApp™ 6.0	XenApp™ 5.0	Presentation Server™ 4.5
HTTP/S for streaming	Stream applications to servers and user devices via HTTP/S protocol. This ensures secure delivery and easier firewall traversal when delivering applications to local PC's.	P/E/A	●	●	●	
Trusted server configuration	Similar to Internet Explorer's "trusted web sites" feature, Trusted Server Configuration prevents users from accessing unauthorized or un-trusted servers.	P/E/A	●	●	●	●
<b>Multi-factor authentication</b>						
Active Directory support	Support for Microsoft Active Directory means that XenApp recognizes and authenticates your users easily.	P/E/A/F	●	●	●	●
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/F	●	●	●	●
Novell eDirectory and NDS support	Support for Novell eDirectory (XenApp 5 for Windows Server 2003 and prior) and Domain Services for Windows (XenApp for Windows Server 2008 and 2008 R2) means that XenApp recognizes and authenticates your Novell users easily.	P/E/A	●	●	Window Server 2003 ONLY	●
Two-factor authentication	Supports RSA SecurID® and SafeNet SafeWord® Secure Computing tokens for two-factor authentication.	P/E/A/F	●	●	●	●
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/F	●	●	●	
Kerberos authentication	Kerberos simplifies user authentication and reduces logon points while ensuring logon chain integrity when users are accessing applications through Web interface.	P/E/A/F	●	●	●	
Smartcard support (including Common Access Card (CAC))	Support for Smart card authentication to Web Interface or XenApp hosted applications 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	●	●	●	●

Feature	Description	Edition	XenApp™ 6.5	XenApp™ 6.0	XenApp™ 5.0	Presentation Server™ 4.5
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	●	●	●	●
SMS authentication for Smart Phones	Provides the ability to use SMS challenge and response-based authentication with Citrix Receiver for iPhone.	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	IT can define policies to control 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	●	●	●	●

## Enterprise-class scalability

XenApp is proven to support more than 70,000 users, scale beyond 1,000 servers in a single implementation and ensure 99.999 percent application availability. The enterprise-class foundation coupled with centralized management, monitoring and automation tools enable rapid response to business and user needs.

Feature	Description	Edition	XenApp™ 6.5	XenApp™ 6.0	XenApp™ 5.0	Presentation Server™ 4.5
<b>Centralized system 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/F	●	●	●	●
Active Directory Group Policy integration	Group Policy templates and integration with Microsoft Active Directory Group Policy-based management enable rapid server, application and user access configuration across even the most complex farms.	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/F	●	●	●	●
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/F	●	●	●	●
Management automation	Automate key management tasks using the PowerShell SDK and PowerShell CmdLets for XenApp. Automate tasks using the Citrix Workflow Studio visual interface or manually using PowerShell command line functions.	P/E/A	●	●	●	●
Support for Microsoft	Management pack enables control of XenApp server farm's through Microsoft's MOM 2005 and 2007 product using the Microsoft Operations	P/E	●	●	●	●

Feature	Description	Edition	XenApp™ 6.5	XenApp™ 6.0	XenApp™ 5.0	Presentation Server™ 4.5
Operations Manager (MOM) Console.						
<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	●	●	●	●
Server 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 by automatically directing users to backup servers if primary servers are unavailable.	P/E	●	●	●	●
<b>Intelligent load and capacity management</b>						
Enterprise load management	Ensures that each user receives the best system performance by allowing IT to configure balancing rules based on application and 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	Prevents individual users and processes from taking too much CPU at any given time, ensuring a consistent performance level for all users on the server.	P/E/F	●	●	●	●

Feature	Description	Edition	XenApp™ 6.5	XenApp™ 6.0	XenApp™ 5.0	Presentation Server™ 4.5
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/F	●	●	●	●
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/F	●	●	●	●
Application user load	Limits the number of users allowed to connect to each specific hosted application.	P/E/A/F	●	●	●	●
<b>Server 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/F	●	●	●	
<b>Service level assurance</b>						
Power and capacity management	Create system policies that manage server power consumption and make the most optimal use of server capacity during both peak and off-peak hours. Automatically brings capacity online to maintain expected user performance and access and retires capacity when it is no longer needed.	P/E	●	●	Windows Server 2003 ONLY	*

Feature	Description	Edition	XenApp™ 6.5	XenApp™ 6.0	XenApp™ 5.0	Presentation Server™ 4.5
Load testing services	Create realistic test scenarios through a visual scripting interface. The scripts are then run against virtual or physical XenApp servers to simulate user activity and determine benchmark server capacity.	P/E	●	●	●	*
Desktop Director	Desktop Director provides a single console where IT help desk admins can monitor, troubleshoot and assist users with virtual desktops and apps for 1,000 users as easily as for one. The same console can be used to assist users with XenDesktop delivered desktops as well as XenApp applications and server hosted desktops	P/E/A	●			
Service 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 user sessions 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/F	●	●	●	●
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	●	●	●	*

Feature	Description	Edition	XenApp™ 6.5	XenApp™ 6.0	XenApp™ 5.0	Presentation Server™ 4.5
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	●	●	●	●
Dynamic Data Center Provisioning	Provides the capability to create "controller" or "worker" roles in a server farm. Previously, all servers performed both roles. Workers need to sync much less data, resulting in fewer database transactions. This makes migrating from previous XenApp versions easier and simplifies the process of joining a large number of servers to a XenApp farm.	P/E/A	●			



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**About Citrix**

Citrix Systems, Inc. (NASDAQ:CTXS) is a leading provider of virtual computing solutions that help companies deliver IT as an on-demand service. Founded in 1989, Citrix combines virtualization, networking, and cloud computing technologies into a full portfolio of products that enable virtual workstyles for users and virtual datacenters for IT. More than 230,000 organizations worldwide rely on Citrix to help them build simpler and more cost-effective IT environments. Citrix partners with over 10,000 companies in more than 100 countries. Annual revenue in 2010 was \$1.87 billion.

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