



## MetaFrame®

ACCESS SUITE

### Citrix MetaFrame Presentation Server

Citrix MetaFrame Presentation Server, the foundation of the MetaFrame Access Suite and the most widely deployed presentation server, is designed to centrally manage virtually any heterogeneous application and deliver access to any authorized user anytime, anywhere, using any device, over any network. Certified to run on Microsoft® Windows® 2000 Server and Windows Server™ 2003, MetaFrame Presentation Server supports virtually any custom or commercially packaged Windows or Web application.

MetaFrame Presentation Server is available in three editions to accommodate a wide spectrum of customer requirements for functionality and scale.

- With MetaFrame Presentation Server, Standard Edition, smaller organizations can centralize IT management and control and provide workers with secure access to applications anytime, anywhere, over any connection.
- MetaFrame Presentation Server, Advanced Edition provides small to medium-sized organizations with additional scalability, manageability and application availability to meet growth requirements.
- MetaFrame Presentation Server, Enterprise Edition provides large organizations and multi-national corporations with greater scalability, rapid application deployment and comprehensive management and monitoring capabilities.

MetaFrame Presentation Server 3.0 provides many customer benefits that fall into five key areas:

- Enabling the global on-demand enterprise
- Increasing productivity through reliable mobile access
- Improving performance for applications
- Providing a secure platform for regulatory compliance
- On-demand licensing across the suite

#### **ENABLING THE GLOBAL ON-DEMAND ENTERPRISE**

MetaFrame Presentation Server helps enterprises align business goals with IT capabilities by providing powerful management tools that enhance administrative efficiency and increase system control. These include a common interface for administrative functions, support for larger server farms, a robust report center, and the ability to view the infrastructure through a custom dashboard.

#### **INCREASING PRODUCTIVITY THROUGH RELIABLE MOBILE ACCESS**

The SmoothRoaming capability of MetaFrame Presentation Server allows wired and wireless users to be more productive by giving them uninterrupted access to applications and information when they switch from one device or location to another, or lose and regain network connectivity. SmoothRoaming even ensures the richest user interface possible when changing from a full-size desktop to a small handheld. A doctor moving from one workstation to another within a hospital, or a worker roaming the factory floor, for example, enjoy continuous access and a consistent experience.

#### **IMPROVING PERFORMANCE OF BROWSER-BASED APPLICATIONS**

MetaFrame Presentation Server raises the usability and performance of browser and multimedia applications to the level of local execution. A range of capabilities dramatically improves the speed of streaming audio and video, animations and images while lowering bandwidth requirements, thus improving the user experience.

#### **PROVIDING A SECURE PLATFORM FOR REGULATORY COMPLIANCE**

To assist organizations in meeting internal standards and complying with government and industry regulations, MetaFrame Presentation Server gives IT architects the ability to design compliant systems, and gives IT administrators greater control over security. System security allows organizations to confidently provide greater information access to remote and mobile employees, and to reassure customers about the privacy of sensitive medical or financial data.

#### **ON-DEMAND LICENSING**

New licensing management simplifies usage and tracking, and eliminates the need to install, activate and manage individual MetaFrame Presentation Server licenses. License sharing across server farms, regardless of the location of the data center, also raises the return on investment in MetaFrame Presentation Server.

## ENABLE THE GLOBAL ON-DEMAND ENTERPRISE

FEATURE	DESCRIPTION	BENEFITS
NEW Management console for the MetaFrame Access Suite	Allows administrators to perform tasks from within the Microsoft Management Console (MMC). By way of configurable 'snap-in' extensions, administrators can view applications, servers and zones in multiple MetaFrame Presentation Server farms; manage sessions and perform searches across multiple farms; monitor the performance of server farms; and create reports to analyze MetaFrame Presentation Server deployments.	Provides administrators with a convenient interface for managing and monitoring MetaFrame Presentation Server deployments.
Application publishing	Provides easy and fast deployment of applications to any server and any user with the click of a button.	Ensures that applications look and feel as if they are running locally and eliminates the need for additional end-user training.
Content publishing	Extends the application publishing model to accommodate internal and external content. Administrators can configure 'content publishing' to open published content with either a local or server-based application.	Saves time by enabling access to applications and content through a convenient Web interface. Local applications are not required in order to access published content.
Program Neighborhood® Agent	Pushes application icons to the Windows client's Start menu and desktop.	Allows administrators to centrally control access to Windows applications and content from a single point. Reduces the need for additional end-user training.
Advanced Load Management <i>Advanced and Enterprise Editions</i>	Customizes load-balancing rules to maximize server resources based on the application and user environment. Enables administrators to take applications offline for maintenance.	Scales MetaFrame Presentation Servers more easily and cost-effectively to support thousands of users across multiple servers. Accommodates routine application and database maintenance.
Installation Manager <i>Enterprise Edition only</i>	Eases the burden of installing and uninstalling applications on servers in large server farms by automating the process.	Saves time and money by making it easier to create and replicate applications, service packs and files across the server farm.
Resource Manager <i>Enterprise Edition only</i>	Provides the capabilities to centrally monitor and manage the server farm, with real-time graphing and alerting, capacity planning, user-definable metrics and reporting.	Allows administrators to efficiently manage and monitor system resources and to generate billing reports — based on costs such as CPU usage or connection time — for users, departments or domains.
NEW Customer dashboard views <i>Enterprise Edition only</i>	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.	Enables administrators to quickly assess the health and performance of the MetaFrame Presentation Server infrastructure.

FEATURE	DESCRIPTION	BENEFITS
<b>NEW</b> Report Center <i>Enterprise Edition only</i>	Provides a robust set of pre-defined reports for application and server availability, configurations, performance and capacity, and maintenance that enable administrators to gather and analyze detailed information about their infrastructure.	Allows administrators to effectively track the performance of their infrastructure over time.
Network Manager <i>Enterprise Edition only</i>	Administers MetaFrame Presentation Server farms through the native network-management console of leading network-management solutions.	Uses a familiar interface to monitor and manage servers enabling simplified applications deployment and administration to save time and money.
Management Pack for Microsoft Operations Manager <i>Enterprise Edition only</i>	Integrates MetaFrame Presentation Server farm monitoring into Microsoft Operations Manager (MOM). Provides comprehensive event management, monitoring and alerting, reporting and trend analysis for Windows-based server farms and server farm resources.	Allows administrators to conveniently monitor MetaFrame Presentation Servers from the same console they are already using to manage their Windows servers. Administrators receive detailed explanations and extensive resolutions for problems.
Universal printing	Provides a single, universal print driver for all printing needs, including color and high resolution printing.	Reduces the administrator's need to manage and maintain a large number of print drivers while improving server stability and print quality.
Centralized printer management	Replicates print drivers across MetaFrame Presentation Servers, designates print drivers for use and limits the bandwidth used by print data streams.	Eases administration and replication of print drivers across the server farm. Ensures printing does not congest the network.
Enterprise-class scalability	Allows MetaFrame Presentation Server farms to exist across several subnets. Administrators can easily scale MetaFrame Presentation Server farms to support hundreds of servers with tens of thousands of users.	Allows administrators on large enterprises to more efficiently manage their infrastructure while providing small and medium enterprises with the confidence that their architecture will grow as business requirements demand.
Advanced shadowing	Allows administrators to take control of end-users' MetaFrame Presentation Server sessions, log shadowing instances and provide an on-screen shadowing indicator.	Makes it easy for administrators to remotely troubleshoot applications problems and record shadowing instances for precise auditing purposes.
<b>NEW</b> Delegated administration	Enables distribution of MetaFrame Presentation Server administrative responsibilities based on the needs of the business, segmented by device, location or function.	Puts administrative control in the hands of the decision makers — providing greater efficiency and the perfect combination of flexibility and control.

FEATURE	DESCRIPTION	BENEFITS
NEW 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.	Ensures greater control over bandwidth limits, zone connection preferences, audio options and printing — helping to ensure that users get consistently good performance.
NEW Zone preference and failover <i>Enterprise Edition only</i>	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.	Enables a more robust business continuity strategy for mobile, tethered/wired, and wireless users.
Directory support	Provides the ability to publish applications and content to Active Directory and Novell® NDS® users and groups.	Simplifies logon by using a user's full directory-based user name and password. Active Directory and NDS users do not have to authenticate twice when connecting to MetaFrame Presentation Server.
Remote server management	Enables administrators to remotely connect to a specific MetaFrame Presentation Server from the management console. For organizations leveraging Microsoft Windows Server 2003, administrators can remotely connect to the server console.	Gives administrators the flexibility to remotely manage MetaFrame Presentation Servers and perform tasks as though they are logged in locally.
Windows installer support	Leverages Microsoft Windows Installer technology to simplify the installation of MetaFrame Presentation Server and related components.	Makes MetaFrame Presentation Server and components easier to deploy.

**INCREASING PRODUCTIVITY THROUGH RELIABLE MOBILE ACCESS**

FEATURE	DESCRIPTION	BENEFITS
Any client	MetaFrame Presentation Server supports more than 20 client platforms including Windows and non-Windows platforms.	Provides true user mobility by giving any client device access to Windows applications.
Any connection	Connects users to the network through dial-up telephone lines, WAN links (T1, T3, 56K, X.25), broadband connections (ISDN, Frame Relay, ATM), the Internet and wireless connections.	Extends applications to users everywhere — regardless of connection — and simplifies application deployment for IT.
Web interface	Provides Web-based access to published applications through any standard Web browser. Web interface also provides multi-farm support, is RSA SecurID® compatible and provides support for Secure Computing®'s SafeWord® for Citrix MetaFrame hardware tokens. Web interface also supports Mac® OS X Web access and PDA Web access.	Provides greater security and allows users to access multiple MetaFrame Presentation Server farms using a single set of credentials.
Secure gateway	Provides an gateway for SSL/TLS encrypted session data traveling across the Internet between MetaFrame Presentation Servers and client devices.	Ensures that administrators can simply and easily deploy applications across the Internet using standards-based (SSL/TLS) encryption.
<b>NEW</b> Workspace control <i>Advanced and Enterprise Editions</i>	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.	Ensures that users experience a consistent workspace, and personal continuity.
<b>NEW</b> Session reliability <i>Advanced and Enterprise Editions</i>	Allows work items to remain open when network connectivity is lost, and then seamlessly resumed when connectivity is restored.	Ensures that all open windows to server resources remain visible while reconnection is automatically attempted in the background. This is especially useful for mobile users with wireless connections that are interrupted or dropped.
<b>NEW</b> 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.	Allows users to easily roam between devices with a seamless user experience.
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.	Provides a true, seamless user experience with little to no end-user training.

FEATURE	DESCRIPTION	BENEFITS
Content redirection	Allows administrators to specify whether local or server resources are used to open content, no matter where it is stored.	Enables better utilization of local and server resources. Provides users with tighter integration between local and server-based applications.
Pass-through authentication	Provides the ability to pass the user's desktop password to the server.	Eliminates the need for multiple system and application authentication, and minimizes the authentication tasks required by the users.
Access to local system resources	Automates access to all local drives and devices attached to communication ports. Also provides the ability to play 16-bit audio files.	Enables users to leverage all their local resources such as printers, personal digital assistants and other devices. Provides a seamless user experience.

#### IMPROVING PERFORMANCE FOR APPLICATIONS

FEATURE	DESCRIPTION	BENEFITS
<b>NEW</b> SpeedScreen™ Acceleration Audio and Video <i>Advanced and Enterprise Editions</i>	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.	Since the compressed, rather than decompressed, files are sent over the network, bandwidth consumption and server CPU load are reduced, and the user experience is optimized.
<b>NEW</b> SpeedScreen Acceleration Images	Image rendering is accelerated and bandwidth consumption lowered by compressing files before sending to the client.	Administrators can manage the tradeoff between image quality and transmission speed and bandwidth usage.
<b>NEW</b> SpeedScreen Acceleration Macromedia Flash™ <i>Advanced and Enterprise Edition</i>	Flash Acceleration plays Flash animation in low quality mode, speeds delivery of the animation, reduces server load and reduces network bandwidth consumption.	The user experience of viewing Macromedia Flash animations in Internet Explorer is improved by managing the trade-off between animation quality and rendering speed.

FEATURE	DESCRIPTION	BENEFITS
<b>NEW</b> Bi-directional audio <i>Advanced and Enterprise Editions</i>	Allows client-side audio peripherals such as microphones and dictation hardware, including Phillips SpeechMike™ processing devices, to send audio to dictation applications running on a centralized server.	Allows for centralization of digital dictation solutions used in the healthcare and legal industries.
Web-based client installation	Identifies the platform a user is on and offers the opportunity to automatically download the appropriate client software. Users have the option to download a zero-install Java™ client that can run from anywhere.	Allows fast, simple deployment of the client software to first-time users, and enables users to access MetaFrame Presentation Server from unconfigured desktops such as Internet kiosks.
<b>NEW</b> Support for Remote Desktop Client (RDC)	Allows users to connect to MetaFrame Presentation Server without the need to install the MetaFrame Presentation Server client software.	Enables access to MetaFrame Presentation Server from devices that are locked-down or where restrictions prevent download of a Citrix client.
<b>NEW</b> Standards-based 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.	Secures MetaFrame Presentation Server connections and allows organizations to comply with U.S. FIPS 140 standards.
<b>NEW</b> Section 508 compliance	MetaFrame Presentation Server supports Section 508 of the Rehabilitation Act, a government standard for accessibility.	Gives administrators the agility to adapt their infrastructure to comply with government standards.
Smart card support	Provides secure access to applications and data using smart card technologies.	Simplifies authentication and enhances logon security by allowing smart card authentication to published applications, as well as “smart card aware” applications, such as Microsoft Outlook.
Internet proxy support	Enables client devices to leverage browser settings to detect and send traffic through a client side proxy server.	Allows users to connect to MetaFrame Presentation Servers across networks that use client side proxies.

## ON-DEMAND LICENSING

	FEATURE	DESCRIPTION	BENEFITS
NEW	Centralized license architecture	Simplifies the use and tracking of licenses and eliminates the need to install, activate and manage individual MetaFrame Presentation Server licenses.	Removes the administrative burden of license management and increases customer value through the effective use and management of MetaFrame Presentation Server licenses.
NEW	Centralized license management	Manages all MetaFrame Presentation Server licenses, including entry and activation from a single point.	Enables simplified administration and activation of all MetaFrame Presentation Server licenses.

## Citrix Access Infrastructure

Citrix access infrastructure software helps organizations provide easy, secure, and instant access to enterprise information and applications, while controlling IT costs and complexity. The Citrix® MetaFrame® Access Suite solves critical information access challenges, including connecting remote offices, providing mobile access to information, accelerating enterprise-wide application deployment, and enabling continued operations during an interruption. Citrix customers are leveraging the MetaFrame Access Suite to address regulatory compliance issues by centralizing applications and data and providing secure, authorized access on demand. Citrix software delivers measurable ROI and benefits including cost savings, higher productivity, improved decision-making and greater business agility.

## Citrix MetaFrame Access Suite

The Citrix MetaFrame Access Suite offers organizations the easiest and most cost-effective way to provide a single, secure point of access to enterprise applications and information on demand. The suite ensures a consistent user experience anywhere, on any device or connection, while allowing IT staffs to centrally deliver, manage, monitor and control enterprise resources. Products in the suite are fully integrated, making it easy to add and extend the value of your MetaFrame Presentation Server implementation:

**Citrix MetaFrame Presentation Server for Windows:** The foundation of the Citrix MetaFrame Access Suite, Citrix MetaFrame Presentation Server for Windows® is the world's most widely deployed presentation server for centrally managing heterogeneous applications and delivering their functionality as a service to workers, wherever they may be.

**Citrix MetaFrame Presentation Server for UNIX:** Provides users with secure access to UNIX® and Java™ applications, supporting Sun™ Solaris™, HP-UX® and IBM® AIX® platforms.

**Citrix MetaFrame Secure Access Manager:** Provides secure, single-point access over the Web to a wide range of internal and external information resources, including applications, data sources, documents, Web content and services. With a powerful set of easy-to-use, wizard-driven configuration tools, IT administrators can enable browser-based access to the entire enterprise.

**Citrix MetaFrame Password Manager:** Provides password security and enterprise single sign-on access to Windows® Web, and host-based applications, whether those applications are running locally on the user's device or in the MetaFrame Access Suite environment. Users authenticate once with a single password, and MetaFrame Password Manager does the rest, automatically logging into password-protected information systems, enforcing password policies, and automating end-user tasks, including password changes.

**Citrix MetaFrame Conferencing Manager:** Adds intuitive application conferencing to MetaFrame Presentation Server that eliminates the geographical distance between team members, increases the productivity of meetings, and allows easy collaboration.



**About Citrix:** Citrix Systems, Inc. (Nasdaq:CTXS) is the global leader in access infrastructure solutions and the most trusted name in enterprise access. Citrix software enables people in businesses, government agencies, and educational institutions to securely, easily and instantly access the on-demand enterprise, from anywhere, anytime, using any device, over any connection. Nearly 50 million people in more than 120,000 organizations rely on the Citrix MetaFrame Access Suite to do their jobs. Citrix customers include 100% of the *Fortune* 100 companies, 99% of the *Fortune* 500, and 92% of the *Fortune* Global 500. Based in Fort Lauderdale, Florida, Citrix has offices in 26 countries, and more than 7,000 channel and alliance partners in more than 100 countries. For more information visit [www.citrix.com](http://www.citrix.com).

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For more information on Citrix MetaFrame Presentation Server, such as analyst reports, white papers, demonstrations, presentations and collateral, or to download an evaluation copy, please visit [www.citrix.com/PresentationServer](http://www.citrix.com/PresentationServer)

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