

Running FileMaker Pro 6 on Citrix MetaFrame XP



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FileMaker, Inc.

5201 Patrick Henry Drive

Santa Clara, California 95054

www.filemaker.com

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Chapter 1

Introduction to Citrix MetaFrame XP

About Citrix MetaFrame XP

Citrix MetaFrame XP for Windows 2000 is a server-based application server that runs with Microsoft Windows 2000 Server Terminal Services. MetaFrame XP extends the reach of Windows 2000 Server Terminal Services by providing application access by a wider variety of platforms and clients and supporting a wider range of features such as application transparency, better bandwidth performance, enhanced security, load balancing, and much more. MetaFrame XP has three components similar to Terminal Services in Windows 2000: the server, the client, and the Citrix Independent Computing Architecture (ICA) protocol by which the server communicates with the client.

MetaFrame XP application server

Similar to Terminal Services, when you are running MetaFrame XP application server, all applications are run on the server. Also like Terminal Services, the server sends only screen information to the client and receives input only from the client mouse and keyboard. MetaFrame XP allows administrators to take server-based application services to a new level by creating seamless applications for clients to access rather than providing an entire Windows 2000 desktop environment.

Independent Computing Architecture (ICA) protocol

The Independent Computing Architecture (ICA) protocol is automatically installed when you install Citrix MetaFrame XP. The ICA protocol transmits data between the Citrix ICA client and the MetaFrame XP server and is designed for transparent support of Windows applications, low-bandwidth requirements, data compression and encryption. Unlike Windows 2000 Terminal Services Remote Desktop Protocol (RDP), ICA also allows for client drive mapping, printer mapping, client port mapping, client clipboard support, audio support, as well as bitmap and disk caching.

ICA connections have been tested and are supported with the TCP/IP protocol when FileMaker® Pro 6 runs on a MetaFrame XP server.

Note If you have any Terminal Services clients accessing the MetaFrame XP server via RDP, you must enable the TCP/IP protocol on the MetaFrame XP server.

Citrix ICA client

The Citrix ICA client uses thin-client technology to provide a Windows 2000 desktop or a seamless application to users. Unlike with Terminal Services clients, when a seamless application is published for Citrix ICA clients, the application appears as if it is running locally on the client desktop. For both Windows 2000 desktops and seamless applications, the client only needs to make a connection to the server, and the server displays any needed visual information to the client, while the client sends back keyboard and mouse information to the server. 100% of the application processing is done on the server; the application is not actually loaded onto the client.

Benefits of using MetaFrame XP

- Organizations can deploy Windows 2000 applications in heterogeneous computing environments regardless of client hardware, operating system, or network connections.
- Users can continue to use their current operating system and applications.
- IT professionals can support specific Windows 2000 applications from a single location and manage application deployment, access, performance, security, and reliability.

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- Administrators only need to install and update one copy of an application on a server machine and can create a variety of application environments, from complete Windows 2000 desktops to seamless application windows.
- NFuse 1.61 application portal software working with MetaFrame XP is supported in the FileMaker Pro 6 configuration model and allows organizations to integrate applications into any standard Web browser.

System requirements

The hardware requirements for Citrix MetaFrame XP application server depend on how many clients will be connecting at a time and the usage requirements of the clients.

Citrix MetaFrame XP (Feature Release 1/ Service Pack 2) server minimum requirements

- 166 MHz or higher Pentium processor
- 128 MB RAM; 256 MB RAM recommended
- 2 GB hard disk with a minimum of 1 GB free space
- Additional 10 to 20 MB RAM per client connection

Citrix ICA client minimum requirements

Note Only the following clients are supported by FileMaker, Inc. at this time. Other clients may work as expected but have not been tested for use with FileMaker Pro 6 and are not currently supported.

- Citrix ICA Client 6.2 for 32-bit Windows: Windows NT 4.0, Windows 2000, Windows 98, Windows Me, and Windows XP
- Citrix ICA Client 6.2 for Mac OS: Mac OS 8.6 through Mac OS 9.2.2
- Citrix ICA Client 6.2 for Java: Mac OS X 10.1.3 and Java 1.3.1

Note Citrix ICA Java Client 6.2 is supported only as an application, not as an applet.

- Citrix ICA Web Client 6.2 for Win32 with NFuse 1.6 and Internet Explorer 6 or Netscape Navigator 6.2.1
- Citrix ICA Web Client 6.2 for Mac OS with NFuse 1.6 and Internet Explorer 5.1 or Netscape Navigator 6.2.1

Clients are available from the %SystemRoot%\System32\Clients\ICA directory on the Citrix MetaFrame XP server machine or from the Citrix web site at www.citrix.com/download.

Windows 2000 Terminal Services and Citrix MetaFrame XP both share executable resources among users, so memory requirements for additional users running the same application are less than the requirements for the first user to load the application.

For improved performance use:

- High-performance bus architecture such as EISA, MCA, or PCI. The ISA (AT) bus cannot move enough data to support the kind of traffic that is generated by a typical Terminal Services installation.
- A SCSI disk drive, preferably one that is compatible with Fast SCSI or SCSI-2. To improve disk-access time, use a SCSI disk drive with RAID.
- A high-performance network adapter. Consider having two network adapters in the server machine and designate one for ICA traffic only.

