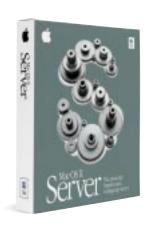


Mac OS X Server

The powerful Internet and workgroup server.



Key Features

Robust core operating system

- · Kernel based on Mach 2.5 and BSD 4.4
- · Protected memory
- · Preemptive multitasking
- Native support for 100% Pure Java (JDK 1.1.6)

Industry-leading web server

- Standard implementation of Apache 1.3.4
- Optimized for fastest Apache performance
- Fully integrated single-button setup

Powerful application server

- WebObjects 4.0.1, the industry leader for developing and deploying flexible, scalable network applications
- 50-transaction-per-minute license
- Full suite of WebObjects development tools

Affordable digital media server

- Streams QuickTime digital media
- · Reflects live broadcasts
- Allows easy administration
- Supports more than 1,000 Internet users simultaneously

Simple Macintosh workgroup management

- Includes Apple's new NetBoot technology for managing Macintosh systems on a network
- Makes managing a network of Macintosh computers as easy as managing a single Macintosh
- Gives users secure access to their personal desktops, files, and applications from any Macintosh on the network

Scalable file services

- Support for more than 4,000 open files per process and more than 1,000 simultaneous connections
- Support for importing user information from AppleShare IP servers
- Web-based Remote Administration tool for monitoring and changing server status, user and group lists, and mountable volumes

Mac OS X Server software combines outstanding performance and robustness, the renowned Macintosh ease of use, and innovative services for the Internet and workgroups—all for one great price. Mac OS X Server uses the same modern foundation that will power Mac OS X. Based on Mach 2.5 and BSD 4.4, this operating system is incredibly stable and scalable. It includes systemwide protected memory for crash-resistant computing, and full preemptive multitasking so that a single service can't monopolize the processor.

Two industry-leading Internet services—Apache and WebObjects developer tools—are included with Mac OS X Server. Apache is the world's most popular server for reliably delivering both static and dynamically generated HTML pages. Apache can be scaled from a workgroup web server to a complex Internet site hosting multiple domains. Apple's standard implementation of Apache is fully integrated with Mac OS X Server, and the server software itself has been optimized to work with Apache.

WebObjects software is the most flexible and scalable way to develop and deploy network applications for viewing from any web browser. It's a proven, industry-leading technology that currently runs thousands of mission-critical applications around the world. Included with Mac OS X Server are the WebObjects developer tools, which let you create your own WebObjects applications.

The QuickTime Streaming Server lets you easily and affordably stream your own QuickTime digital media on the Internet. Using industry-standard real-time protocols (RTP and RTSP) and cutting-edge compression technologies, you can serve more than a thousand users on the Internet or deliver near-broadcast-quality video on your local network. And the QuickTime Streaming Server can reflect an encoded audio or video stream in real time, so you can broadcast live events as they happen.

In addition to providing powerful Internet services, Mac OS X Server introduces a whole new way to manage your Macintosh workgroups. Apple's exciting NetBoot software enables a network of Macintosh computers to run from the same shared System Folder and applications volume stored on the NetBoot server. Just update the NetBoot server, and all the other computers have instant access to the new configuration.

Mac OS X Server also includes highly scalable file services capable of supporting thousands of open files, connecting to more than a thousand concurrent users, and pushing hundreds of megabits per second across the network.

Mac OS X Server: Powerful software for Internet services and Macintosh workgroups.

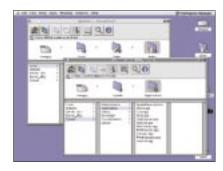


Specification Sheet

Mac OS X Server



Configuring network services is easy with the Network control panel. You can enable or disable any service without ever having to touch a configuration file.



The Columns view of the Workspace Manager makes it easy for system administrators and web developers to navigate large, complex file systems.

Features	Benefits
Robust core operating system	
Kernel based on Mach 2.5 and BSD 4.4	Provides an incredibly stable and scalable operating system based on open standards
	Makes it easy to port applications from UNIX operating systems
Protected memory	Helps prevent system crashes
Preemptive multitasking	Prevents a single service from monopolizing the computer
Native support for 100% Pure Java (JDK 1.1.6)	Runs any of the multitude of conformant Pure Java applications and applets
	Integrates the Java runtime code with the native object model and threads for impressive performance and stability
Industry-leading web server	
Certified implementation of Apache 1.3.4	Brings the world's most popular web server to the Macintosh platform
	Allows you to easily share Apache configuration files with or migrate them from other platforms
	Supports easy updating to future releases from the Apache Group
Optimized for Apache performance	Delivers performance outstripping any other web server in its class
Single-button setup	Gets your web server up and running in minutes
Powerful application server	
WebObjects 4.0.1 software	Provides the most flexible and scalable server for deploying network applications that can connect to multiple databases and generate HTML and Java user interfaces for a standard web browser
	Provides proven technology that has made WebObjects the most popular application server for the Internet and intranets, running some of the web's most popular sites
	Lets you leverage hundreds of existing third-party WebObjects solutions previously developed for use on UNIX or Windows NT systems
50-transaction-per-minute license	Allows you to evaluate WebObjects applications or deploy them in medium-size workgroups
Full suite of WebObjects development tools	Enables you to create your own WebObjects applications
	Enables you to assemble prebuilt components to create powerful reporting and electronic-commerce solutions
	Includes the WebObjects Direct to Web feature to quickly enable access to SQL databases in a web page



Specification Sheet

Mac OS X Server

directory to AppleShare clients

Web-based Remote Administration tool

Benefits Features Affordable digital media server Streams QuickTime digital media Streams QuickTime, the industry-leading digital format Supports any QuickTime 4 compression format Reflection of live broadcasts Supports reflection of live encoded audio or video so you can broadcast events as they happen Includes tools for controlling server settings and viewing time-based Easy administration server activity Ability to broadcast to the Internet and Can serve live broadcasts or hundreds of concurrent, unique your intranet stored files to more than 1,000 users on the Internet Lets you deliver full-screen, near-broadcast-quality video on your local network Simple Macintosh workgroup management Apple's new NetBoot technology Enables you to configure and update systems on all your NetBootcapable Macintosh computers by simply updating the NetBoot Stores a single, consistent System Folder and application folders for all clients on a NetBoot server Includes NetBoot Desktop Admin software that lets you administer the system and application resources used by NetBoot client computers from any NetBoot client Macintosh Management server software Enables individual users to securely access their system and applications and documents from any NetBoot or non-NetBoot client Lets you control access to your network by providing authentication services and system policy control Scalable file services File services comparable to those in Lets any AppleShare client access files over either TCP/IP AppleShare IP or AppleTalk Support for more than 4,000 open files per Enables you to provide file services to a large workgroup from a process and 1,000 simultaneous connections single Macintosh server Ability to share user and group information Streamlines the updating of multiple servers among different Mac OS X Server systems Support for adding multiple users at one Speeds server configuration time from AppleShare IP servers Makes it easy to add a Mac OS X Server-based system to an existing AppleShare network Ability to export the Apache documents Allows you to drag and drop files onto the Apache server from any

Macintosh client

from any Java-capable web browser

Provides easy-to-use file server management that you can access



The Macintosh Management server provides a multiuser environment on top of the Mac OS, allowing users to securely access their personal desktops, files, and applications from any Macintosh computer on the network.



Specification Sheet

Mac OS X Server

Top Five Reasons to Get Mac OS X Server

- Provide native Apache web services on the Macintosh platform
- Develop and deploy cutting-edge network applications with WebObjects
- 3. Deliver QuickTime digital media
- 4. Manage your network with NetBoot server software
- 5. Scale your Apple file services to more than 1,000 users

Choosing between AppleShare IP and Mac OS X Server

AppleShare IP software provides file, print, web, and mail services for Macintosh and Windows clients. Setup and management are done through an integrated and secure interface that makes AppleShare servers extremely easy to use.

Mac OS X Server does not provide all the same services as AppleShare IP, but does offer high scalability for web serving and file sharing. It does not directly support Windows clients for file sharing, although any web client can access its web services.

If you need any of the following capabilities, you should choose Mac OS X Server:

- Have a high-speed Apache web server
- Implement a WebObjects application server
- Deliver stored or live digital video
- Configure and update multiple Macintosh systems from a single server
- Support more than 1,000 simultaneous Macintosh clients for file sharing

If, however, you need a general-purpose server that can support a mixed environment of Macintosh and Windows clients, you should choose AppleShare IP.

Ordering Information

Mac OS X Server

Order No. M7348Z/A

Includes four CDs containing the following software:

- Base Mac OS X Server system
- -- Mac OS X core operating system
- --- Apache 1.3.4 web server
- QuickTime Streaming Server*
- --- Apple file services
- —Java 1.1.6
- ---Perl 5.0
- -Sendmail 8.9
- —FTP
- —Telnet
- -NFS
- -Mac OS 8.5 compatibility environment
- WebObjects 4.0.1 development and deployment software
- · NetBoot server software
- Mac OS 8.5.1 client images for NetBoot client computers
- -- NetBoot Desktop Admin
- Macintosh Management client for non-NetBoot computers
- Demo versions of third-party server solutions
- Avatar team collaboration and groupware from Avatar Works Limited
- Cumulus media management system from Canto
- Helios EtherShare, EtherShare OPI, PDF Handshake, and Print Preview file and print management software from Helios Software GmbH
- Web Crossing and Web Crossing/Chat collaboration software from Lundeen & Associates
- —RSCommerce electronic commerce suite from Running Start
- KeyServer client license management software from Sassafras Software
- CommuniGate Pro Internet messaging server from Stalker Software, Inc.
- -FullPress file-sharing and OPI software from Xinet

System Requirements

Mac OS X Server

- Power Macintosh G3 or Macintosh Server G3 computer. Does not support iMac, Macintosh PowerBook G3, or any earlier systems.
- 64MB of RAM
- 1GB hard disk
- Video card, Ethernet card, or disk controller available from Apple

NetBoot client computers

- An iMac, a 1999-model Power Macintosh G3, or a Macintosh PowerBook G3 computer introduced in May 1999*
- 32MB of RAM

Macintosh Management client computers

- 68040- or PowerPC processor—based Macintosh computer
- Mac OS 8.1 or later
- 32MB of RAM

Important: Mac OS X Server uses a different file system, called Mac OS Server Format, which supports POSIX file system semantics. This requires you to partition or reinitialize your existing Macintosh hard disk drives. Files that are shared with AppleShare or NetBoot clients must be stored on Mac OS Extended Format (HFS Plus) volumes.

 $^{\star}~$ For PowerBook G3 computers, the NetBoot client image must be updated to Mac OS 8.6.

Support Options

Apple is dedicated to providing support that meets the needs of our customers. Fee-based support for Mac OS X Server is offered on a per-incident basis or through an annual agreement. To purchase one of Apple's support products in the United States or Canada, please call 888-275-8258. Technical and administrative support is provided in English. For more information, visit www.apple.com/support.

For More Information

For more information about Mac OS X Server, visit www.apple.com/macosx. For more information about AppleShare IP, visit www.apple.com/appleshareip.

To find out where to buy Apple products—through a reseller or from the Apple Store—visit www.apple.com or call 800-538-9696.

Apple Computer, Inc.

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^{*} Visit www.apple.com/quicktime to download the latest version.