

Infosphere Product Update Program

We are always looking for ways to improve our software, and we want you to be able to take advantage of our continuing efforts. You can assure your eligibility in the Infosphere Product Update Program by returning your registration card today.

As a registered MacServe user, you will be notified by mail about updates to the product. These notices will give the price of the update, a list of the added enhancements, and ordering instructions. Most updates will be available at a reduced price.

Only registered owners will receive these update notices, so send in your registration card now!

MacServe Product Support

We want you to get the most out of MacServe and we would like to help. If you have a technical question or problem, check this manual first. Most of the time you will find the answer right there. In fact, Appendix C has been specifically written to assist in troubleshooting. You may also want to give your dealer a call. If you still need assistance, call our Technical Support Department at (503) 226-3620. They will be happy to answer your questions, if you are a registered MacServe user.

Register now for technical support and upgrades!

Please complete and return this registration card before you use your new MacServe software for the first time. Register now so that you will be able to take advantage of the following benefits:

- Infosphere Product Update Program
- MacServe Product Support
- Advance information on new Infosphere products

Serial number **M00008437**

Name _____

Company _____

Address _____

Phone _____

Date purchased _____

Purchased:

- ☐ With my Macintosh
☐ At a later time

Purchased from _____

City _____ State _____

I learned about MacServe through:

- | | |
|--|--|
| ☐ Apple salesperson | ☐ Ad in _____ |
| ☐ Dealer | ☐ Computer show |
| ☐ Friend | ☐ Direct Mail |

My Macintosh Office includes:

- | | |
|---|---|
| ☐ Mac Plus (Qty _____) | ☐ 512K Mac (Qty _____) |
| ☐ Mac XL (Qty _____) | ☐ 128K Mac (Qty _____) |
| ☐ LaserWriter | ☐ Other _____ |

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MacServe™ 2.0 Promotional Edition Release Notes

Disk contents

Your MacServe distribution disk is based upon Apple's 3.1 System file. This is the latest System at the time of MacServe's release. It corrects a number of problems encountered with the 3.0 System (first shipped with the Mac Plus) and bugs in the 128K ROMs. Most of the Apple fonts and desk accessories have been removed to make room for MacServe.

To make additional space available, the disk uses a Mini-Finder. This is significantly smaller than the Finder. However, it only supports a small set of capabilities, appropriate for installing MacServe and performing basic maintenance. *You will not want to transfer this "Finder" to your working disks.*

The Mini-Finder is described in your Macintosh documentation. To escape from it, either select "Shut Down" or run an application from a different disk using "Open Other".

The disk also includes the MacServe Installer, Manager, and Help file. Various messages advise that this package is a promotional edition and not for resale.

Before you install

The Macintosh System environment is changing significantly because of the introduction of new components:

- 128K ROMs for the Macintosh Plus
- The Hierarchical File System
- System 3.0 and 3.1
- New system utilities and printing resources

These elements may still contain bugs. There also may be incompatibilities between them (depending on versions) and existing Macintosh software.

We recommend that you make a back-up copy of your System file before you install MacServe. You might also want to do this before adding fonts or desk accessories. By doing so, you can prevent a lot of grief if anything goes awry. Just copy the System (and Finder) to a diskette before proceeding.

You will probably need to reinstall MacServe after using one of Apple's System Update procedures.

RAM HFS

Apple introduced a prototype of their new Hierarchical File System (HFS) with the Hard Disk 20 in the fall of 1985. It is used by add-on disk drive vendors to provide HFS support on 512K Macs. It is also used to support 800K diskette drives on Macs that do not have the 128K ROMs.

This prototype is found in the "Hard Disk 20" file of startup disks and can be identified by creation and modification dates of fall 1985. It is not fully compatible with HFS embodied in the 128K ROMs.

You may encounter two problems using it with MacServe:

- It fills the system heap so full that you may not be able to open many MacServe volumes.
- Volumes you have open may not be automatically released when you select Finder's "Shut Down" option.

We expect Apple to release an upgraded version of RAM HFS in the near future that is compatible with the 128K ROMs. It will alleviate these problems.

Errata and Adenda

The following notes are organized by page number in the MacServe manual.

14: Installing MacServe

If you copy the MacServe Help file to a Mac XL that previously supported XL/Serve, the icon will be lost and double-clicking the icon fails to start the Manager. These symptoms will be corrected if you rebuild the desktop (hold down the Command and Option keys while starting the Finder).

24: Releasing volumes

Clicking the "Go-away" box in a window that represents a MacServe volume under some applications does not release the volume. Instead, doing so may place your Mac in a very confused state where it knows about a volume it can no longer access.

If you reboot a Mac that had a volume open whose contents had changed, without releasing the volume, the next time you open the volume Finder may report the volume needs "minor repairs".

35: Archiver features

Incremental copies made with the **Partial** option are not considered part of a Back-up Set. They may be restored as **Full** or **Partial Appends**.

You may use Finder to individually restore files if the files are visible, unProtected, and not split across the media of the Back-up Set.

Back-up Sets made using the **Full** and **Replace** options can only be restored by the Archiver as **Full Replace**, even if they fit on a single volume.

Files that qualify for **Append** to copies will not replace files with matching names on the destination media if the destination file is Locked, Protected, or in-use.

48: Creating volumes

Automatic is an option that only affects hosts. Remote nodes must manually open volumes using the MacServe desk accessory.

49: Altering a volume's features

Automatic is an option that only affects hosts. Remote nodes must manually open volumes using the MacServe desk accessory.

Contents

2 BEFORE YOU BEGIN

- 3 How to use this manual
- 4 What MacServe can do for you
- 6 What you need to get started
- 6 Are you ready?
- 7 Getting help from MacServe

9 CHAPTER 1: GETTING STARTED

- 10 Preparing your equipment
- 12 Installing MacServe
- 15 Testing your MacServe host
- 17 Checking your MacServe network

19 CHAPTER 2: USING MACSERVE

- 22 Desk accessory basics
- 27 Watching your network in action
- 30 Altering print jobs
- 32 Erasing volumes
- 33 Rebuilding your hard disk
- 35 Backing-up and restoring volumes

41 CHAPTER 3: MANAGING MACSERVE HOSTS

- 42 Managing your host's resources
- 47 Creating volumes
- 49 Altering a volume's features
- 51 Removing volumes
- 52 Setting the server startup features
- 54 Setting network access features
- 56 Setting the printer options
- 58 Setting the print spooler features
- 60 The manager's password

61 MACSERVE REFERENCE

- 62 Appendix A: Tips and gotchas
- 70 Appendix B: Error messages
- 85 Appendix C: Troubleshooting tips
- 90 Appendix D: Technical notes
- 94 Glossary
- 97 Index

Before You Begin

You have purchased a special kind of product, known as "system software", for the most powerful computer family Apple has ever sold. Perhaps, the most exciting computers ever mass produced.

System software is different from applications, such as MacPaint. It forms the environment within which you use applications. The Finder is an example. You use the Finder to manage your disks and start applications.

You use an application directly; it is the focus of your work. Over time, you want to learn as much as you can about it so you can accomplish your work more effectively.

A good piece of system software does not interfere. You quickly forget it is there, but notice its absence. You also prefer to know as little as possible about it. Like the lighting of a room, the level becomes insignificant yet strongly influences your effectiveness.

We have tried, with MacServe, to create system software that makes it easier and faster for you to do the things you bought your Macintosh to do. Simple things like printing documents, and managing your hard disk. Even sharing applications and documents with your colleagues.

Things that you want to take for granted. Things that others do easily, all the time, on large computers.

Things not possible before on personal workstations.

How to use this manual

MacServe is not a program, but rather a number of program elements. That calls for a different format than classic Macintosh software documentation. We have chosen a cookbook approach that leads you through each of these program elements as you install and learn to use MacServe.

Throughout this manual are short sections entitled *About* They provide background material for the specific topics described in the How To sections, like the sidebars in magazine articles. We hope they make the technical issues underlying the choices you make digestible.

Chapter 1, *Getting Started with MacServe*, shows you how to quickly set up a working MacServe network, including installation instructions. It refers you to the places in the other sections of this manual where you can learn more about using MacServe.

The largest part of this manual is Chapter 2, of interest to all MacServe users. *Using MacServe* discusses the techniques you will use day-to-day to communicate with MacServe. (If someone has installed MacServe for you, you could start here.) Step-by-step instructions detail each task you normally do to manage disk volumes and print documents from the applications you use in your daily work.

Special material for MacServe administrators is included in Chapter 3. *Managing MacServe Hosts* has detailed instructions for setting up and changing the way MacServe manages the resources of your Macintosh. Many of the choices presented there only need to be made once.

The Appendices contain valuable information that helps you get the most out of your MacServe system. They also show you how to avoid and get out of trouble.

Lastly, if computers or networks are new to you, the Glossary explains some of the less common terminology used in this manual. An index and Problem Report Form wrap up the manual.

What MacServe can do for you

MacServe performs the following services to increase the performance, convenience, and security of your Macintosh:

- Simultaneously runs Macintosh applications in the foreground while acting as a "server" for other Macintoshes on the network. Your Macintosh remains your workstation, even though others share its resources.
- Partitions your hard disk into as many as 16 logical "volumes". Each volume appears to be a separate disk and can be any size you choose (from 100 Kbytes to 32 Mbytes). Volumes can be structured with your choice of MFS or HFS (assuming your Mac supports HFS). You can have several volumes open simultaneously, giving you access to thousands of files.
- Shares volumes with other Macintoshes. The same volumes you create for use on your Macintosh can also be shared by other Macs over the network, just as if they were disks directly attached to the other machines.
- Controls access to shared network volumes. Each volume can have a unique password which allows only those who know the password to access the data contained within the volume. You may designate volumes as read-only, allowing simultaneous access by multiple users to libraries. This prevents contention for write access by restricting write privileges to privately mounted volumes.
- Improves disk performance by using a technique called "disk caching". MacServe keeps a copy of the most frequently used data from its disk volumes in memory, eliminating the need to reread it from disk when called for by an application. You obtain the performance benefits of a ramdisk but gain increased data security because new data is always written directly to the disk.
- Makes network services available conveniently from applications through a desk accessory. The same desk accessory you use on your Mac to open and close volumes is used by all members of the network to choose hosts, select volumes, and select printers.
- Names devices for access to multiple "hosts". You give each MacServe system a network name; through those names, you have the ability to select which (of as many as 16) hosts you will obtain disk and print services from.
- Shares printers. Other network users can direct their documents to the printer attached to your Macintosh, instead of requiring their own printer. Their documents are also stored on your hard disk and then printed in the order received.
- Improves application performance by spooling printer output while the application continues. Documents directed to an ImageWriter or similar printer are temporarily stored on your hard disk and then printed in the background. You may be able to resume your application more quickly.