

NetWare® for Macintosh® v1.1

Important Notes

1. NetWare for Macintosh v1.1 requires a NetWare operating system v2.15 revision C or higher. Revisions prior to C will cause network errors. The operating system revision is printed on the SFTOBJ, ADOBJ and EDOBJ diskettes. If you do not have the proper operating system software, please contact Novell Customer Support in the U.S. at 1-800-LANSWER.
2. When you load the Macintosh VAPs, you will see a prompt similar to the following:

Do you wish to load the VAPs?

Wait at least 45 seconds before answering "yes." The wait is necessary to allow the operating system to properly set up the routing table after it has been initialized.

3. Each network adapter using the LocalTalk™ protocol is limited to 32 nodes.
4. Replace the PRINTDEF.EXE and PRINTDEF.HLP files included with the NetWare v2.15 operating system with the PRINTDEF.EXE and PRINTDEF.HLP files located on the MACINST diskette (5.25-inch) or the GATEWAY diskette (3.5-inch). You should load these replacement files in the SYS:PUBLIC directory before you load the Macintosh Print VAPs.
5. NBACKUP is a new backup utility that replaces LARCHIVE, NARCHIVE, LRESTORE, NRESTORE and MACBACK. NBACKUP is on the UTIL-1 and UTIL-2 diskettes. Copy all of the files on these diskettes to your SYS:PUBLIC directory.
6. Replace the NetWare RX-Net™ and NetWare RX-Net/2-SMC PS110 drivers in the NetWare operating system with the file drivers of the same names on the Macintosh LAN_DRV_180 diskette. To replace, use the Load and Select method described on pages 4 through 51 of the *Novell SFT/Advanced NetWare 286 Installation* manual. Do **not** copy these drivers to the LAN_DRV_001 or LAN_DRV_002 diskette.

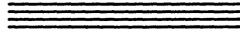
7. NetWare for Macintosh now enables you to set the maximum number of connections through MACSETUP. Set the number by entering any number from 1 to 100 when you see a prompt similar to the following when running the MACSETUP utility:

The maximum number of connections reserved for Macintosh users (1-100).

8. Nondedicated versions of Advanced NetWare have a 20-connection limit due to the amount of memory required by the connection table. Dedicated versions of the NetWare operating system can support up to 100 connections.
9. Novell recommends that users limit passwords to eight characters.
10. Novell recommends that Macintosh workstations use Ethernet adapters for maximum performance. You may notice some performance degradation when using the LocalTalk™ protocol on servers that operate at faster than 16Mhz.
11. Micro Channel™ file servers cannot operate as nondedicated bridges. If you are using a Micro Channel computer for the Macintosh gateway, the computer must be operating as a dedicated server. Novell will support a driver that will enable Micro Channel computers to operate as external bridges in the future.
12. You can install up to three network adapters in a Micro Channel file server.



PLEASE READ



Welcome to NetWare for Macintosh! This packet contains correction sheets pertinent to your manual set.

**DOCUMENTATION UPDATE PACKET:
NETWARE FOR MACINTOSH MANUALS
Part #184-000016-001 Rev B**

Part #	Title
101-000649-001	Addition to Installation Supplement
101-000792-001	Addition to Supervisor's Supplement



Addition to the NetWare for Macintosh: Installation Supplement (Rev 1.00)



The following pages should be replaced in the *NetWare for Macintosh: Installation Supplement* (Rev 1.00). These replacement pages are intended for ELS NetWare Level II users. If you have SFT or Advanced NetWare you do not need to replace these pages.



How To Use This Manual

This manual explains how to install the hardware and software for a NetWare for Macintosh network.

- Chapter 1 explains what NetWare for Macintosh is, and how it works. It also lists the hardware and software required to set up your NetWare for Macintosh network.
- Chapter 2 explains how to plan your network for installation of the NetWare for Macintosh Value-Added Processes (VAPs) in a file server or bridge. It also discusses how to plan your network using LocalTalk or EtherTalk cabling.
- Chapter 3 explains how to install NetWare for Macintosh in a file server or bridge. It refers you to the appropriate NetWare manual for instructions on installing the NetWare operating system in a file server or generating the software for a bridge. It also refers you to the appropriate manual to install your network interface boards. Finally, the chapter includes instructions on running the MACINST program to install the NetWare for Macintosh VAPs in a file server or bridge.

Before installing your network hardware and software, you should be familiar with the user manuals and other instructions supplied with the computers you will be using as file servers, bridges, or network workstations.

In conjunction with this manual, you may need to use one or more NetWare manuals:

- If you purchased a NetWare 286A or 286B File Server, you need the *Guide to Operations* manual that came with the computer.

- If you are upgrading an existing NetWare network to NetWare v2.15 or above, follow the instructions in the *NetWare 286 Upgrade Supplement* to run NETGEN or in the *Installation for ELS NetWare Level II* manual to run ELSGEN, depending on the NetWare product you are installing.
- If you are installing NetWare for Macintosh in a file server that is already running NetWare v2.15 or above, refer to the *NetWare 286 Maintenance* manual or the *Maintenance for ELS NetWare Level II* manual.
- If you are installing NetWare for Macintosh in a bridge, follow the instructions in the *NetWare External Bridges Supplement* to generate your bridge software.
- For each type of network interface board you plan to install in the file server or bridge, you need the corresponding NetWare installation supplement.
- You need documentation for LocalTalk or EtherTalk cabling or other third-party media.

The NetWare manuals focus on installing a network with NetWare hardware and software, and on using the types of networking hardware covered in the installation supplements. If you are using any other third-party products on your network, you also need the documentation provided by the third-party vendor(s).

We strongly recommend that you read each section of this manual completely before going to other manuals to perform the instructions in that section.

Overview of NetWare for Macintosh Software

To install NetWare for Macintosh, you will need the following software:

- NetWare v2.15 or above.
- The file services VAP and board drivers (if you want to use NetWare for Macintosh file services).
- The print server VAP and the queue gateway VAP (if you want to use the NetWare print queues).
- If you are installing the print services VAPs in a separate bridge, you will also need to install an AppleTalk-compatible board driver in the bridge.
- The MACSETUP program to install the VAPs in a file server or bridge.

If you are using 5.25-inch diskettes, the NetWare for Macintosh installation software comes on the following diskettes:

LAN_DRV_180
GATEWAY
MACINST

If you are using 3.5-inch diskettes, the NetWare for Macintosh installation software comes on the following diskettes:

LAN_DRV_180
GATEWAY

- The Macintosh System Tools diskette set v6.0 or above. These diskettes contain the System and Finder files as well as the AppleShare workstation software.

If you are installing print services, you will also need LaserWriter v5.0 or AppleTalk Imagewriter v2.6.

- The NetWare Control Center application, which is located on the *Macintosh Utilities* diskette.
- The NetWare desk accessory, which is included with the Macintosh System Tools diskette set.

If you are installing the NetWare for Macintosh VAPs in a file server, you must run the NETGEN or ELSGEN program (depending on the NetWare product you are using) to install or upgrade the network operating system.

If you are installing the NetWare for Macintosh VAPs in one or two bridges, you must run the BRGEN program to generate the bridge software. BRGEN comes with your kit for NetWare v2.15 or above.

To install the VAPs in a file server or bridge, you must run the MACSETUP program from a DOS workstation to create the VAP configuration file and copy it to the file server's hard disk or the bridge boot diskette.

AppleShare workstation software must be installed on each Macintosh workstation, using the *Macintosh System Tools* diskette that was included in your NetWare for Macintosh kit. This is traditionally done by the Macintosh user and is explained in Chapter 2 of the *NetWare for Macintosh: User's Guide*.

The NetWare Control Center application and the NetWare desk accessory modules must be installed by a network supervisor on the file server's hard disks from a Macintosh workstation. These applications run at the Macintosh workstations. Instructions for installing these applications are found in the *NetWare for Macintosh: Supervisor's Supplement*.

Note Users must also run the Apple Font/DA Mover program at their workstations to install the NetWare desk accessory.

Continue with Chapter 2 to plan your network layout.

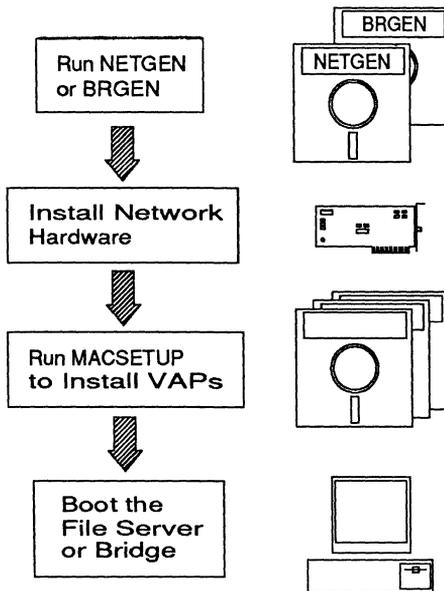


Figure 3.1
Steps in the NetWare for Macintosh Installation Process

If you are using 5.25-inch diskettes, the NetWare for Macintosh installation software comes on the following diskettes:

LAN_DRV_180
GATEWAY
MACINST

If you are using 3.5-inch diskettes, the NetWare for Macintosh installation software comes on the following diskettes:

LAN_DRV_180
GATEWAY

Running the Installation Program

You can install NetWare for Macintosh in a file server, a bridge, or a combination of these. In any case, you need the AppleTalk and Ethernet LAN drivers located on the *LAN_DRV_180* diskette.

- If you are installing NetWare for Macintosh on a file server, the LAN drivers are linked into the NetWare operating system by the NETGEN or ELSGEN program.

Depending on the type of installation you are performing, use the following manuals in conjunction with this manual:

If you are installing NetWare for Macintosh on a file server and this is an initial NetWare installation, refer to the *NetWare 286 Installation* or the *Installation for ELS NetWare Level II* manual for instructions on running NETGEN or ELSGEN.

If you are installing NetWare for Macintosh on a file server on which NetWare v2.15 or above is already installed, refer to the *NetWare 286 Maintenance* or the *Maintenance for ELS NetWare Level II* manual for instructions on running NETGEN or ELSGEN.

If you are installing NetWare for Macintosh on a file server that is running a version of NetWare below v2.15, refer to the *NetWare 286 Upgrade* or the *Installation for ELS NetWare Level II* manual for instructions on running NETGEN or ELSGEN.

- If you are installing NetWare for Macintosh on bridges, the LAN drivers are linked into the bridge software by BRGEN.
- If you are installing NetWare for Macintosh on bridges, refer to the *NetWare External Bridges Supplement* for instructions on running BRGEN.

When you run the NetWare installation program, follow the steps in the manual that documents the installation you have chosen. You must also be familiar with the steps below which explain the special considerations you should make for a NetWare for Macintosh installation. At the appropriate point during installation, supplement the information in your installation manual with that given below.

1. Load the NetWare for Macintosh LAN driver files before you run the installation program.

If you are running NETGEN or ELSGEN from the network or hard disk, follow the instructions in Appendix E of the *NetWare 286 Installation* or the *Installation for ELS NetWare Level II* manual for loading these drivers.

If you are running BRGEN from the network or from a hard disk, follow the instructions in Appendix C of the *NetWare External Bridges Supplement*.

If you are running NETGEN, ELSGEN, or BRGEN from a floppy diskette, you do not need to load the driver files before starting the program. You will be prompted to insert the *LAN_DRV_???* diskette when you select the "Load and Select Item" option from the "LAN Driver Options" menu. At this prompt, insert the *LAN_DRV_180* diskette and complete the instructions in the installation manual to select the LAN drivers.

- 2. Select the NetWare for Macintosh driver that corresponds to the board you will be installing in the file server or the bridge. (The driver name should include some indication that it is to be used with AppleTalk.)**

If you are using LocalTalk cabling, you must select the NetWare for Macintosh driver as the last driver to be installed in the bridge or file server, unless you are also installing an IBM ASYNC (COM1/COM2) board. Do not select the NetWare for Macintosh driver as LAN A.

- 3. Continue with the instructions in the installation manual until you are instructed to choose the LAN driver configuration.**

Then, if you are using the Novell NL1000 board, you must select Option 0 for the first NL1000 board installed in your bridge or file server. The first NL1000 board must have the base I/O address 240h.

- 4. Return to the instructions in your NetWare manual to complete the NETGEN, ELSGEN, or BRGEN program.**

When you complete the installation program, return to this manual and continue with the following section.

Installing Networking Hardware

You must refer to the appropriate installation supplement for instructions on installing network hardware.

If you are installing an Ethernet board in your file server or bridge, refer to the *NetWare Installation Supplement for 3Com EtherLink*.

If you are installing AppleTalk boards in your file server or bridge, refer to the *NetWare Installation Supplement for Novell NL1000*.

Note If you are installing file services or printer services in a real-mode bridge, you can install only one AppleTalk-compatible board. For example, if you use LocalTalk to cable your NetWare for Macintosh network, you can install only one Novell NL1000 board in the bridge that serves as a gateway. You can, however, install additional boards that bridge to standard NetWare networks.

Once you have installed your networking hardware, return to this manual and follow the appropriate instructions below.

- If you are installing the NetWare for Macintosh VAPs in a file server, return to your installation manual and finish running NETGEN or ELSGEN.

When you have finished running the NetWare installation program, return to this manual and continue with the following section.

- If you are installing the NetWare for Macintosh VAPs in a bridge, continue with the following section.

Running the MACSETUP Program

The MACSETUP program is used to prepare target file servers and to install NetWare for Macintosh VAPs on hosts. File servers or bridges can function as the hosts in which the Macintosh for NetWare VAPs are installed.

You must prepare target file servers and install the NetWare for Macintosh VAPs in hosts: once to install file services and again to install print services.

Note If you are installing the file services or print services VAPs in a bridge, you will be prompted by MACSETUP to insert the bridge boot diskette that you created when you ran BRGEN. Have this diskette on hand before you start the MACSETUP program.

All of the VAP files may not fit on the bridge boot diskette, depending on the number and size of these files. (This will undoubtedly occur if you are installing all of the VAPs on a protected-mode bridge.)

If you are installing a protected-mode bridge, you may want to install the VAPs on a high-density diskette or on a hard disk. If you decide to install the VAPs on a hard disk, you might want to create a special directory for the VAPs before you begin the MACSETUP program.

You must also rerun MACSETUP each time you want to specify new targets, hosts, or print queues.

The following instructions are for initial NetWare for Macintosh installation. If you are using MACSETUP to reconfigure your network, skip to "Rerunning MACSETUP" on page 3-24.

3. Highlight the file server you want to specify as a target server and press <Enter>.

If you are not logged in to the file server you specify, you will be prompted for a username and a password if one is required.

- If you are using the *MACINST* diskette to run *MACSETUP*, a message appears prompting you to insert the *GATEWAY* diskette. Continue with Step 4.
- If you already have the *GATEWAY* diskette in drive A, you will receive a message that the file server has been successfully prepared. Skip to Step 5.

If the file server is not successfully prepared, a message will indicate why installation on the file service target failed.

4. Insert the *GATEWAY* diskette into drive A and press <Enter>.

You should receive a message that the file server has been successfully prepared. If it has not, a message will indicate why installation on the file service target failed.

5. Press <Escape>.

The "File Services Options" menu reappears.

To select additional target file servers, repeat Steps 2 through 5.

Once you have selected all the desired target servers, you are ready to prepare the file service hosts on which the file services software will reside. A file services host can be a file server or a bridge.

Preparing File Service Hosts

To prepare file service hosts, complete the following steps.

1. **Highlight “Prepare a File Service Gateway” from the “File Services Options” menu and press <Enter>.**

The following menu appears on the screen.

Host Type

File Server

Bridge

2. **Select the option you need.**

- If you are installing file services on a file server, highlight “File Server” and press < Enter > .

A list of file servers to which the workstation is currently attached appears on the screen.

Continue with Step 3.

- If you are installing file services on a bridge, highlight “Bridge” and press < Enter > .

A message appears prompting you to enter the directory path where your BRIDGE.EXE file is located. Type the path name and press < Enter > .

A message appears, prompting you to insert the *LAN_DRV_180* diskette. Skip to Step 4.

3. **Highlight the file server on which you want file services installed and press <Enter>.**

If the file server you want does not appear in the list, press < Insert > . An “Other File Servers” list appears from which you can select a file server.

After you select the file server, a message appears, prompting you to insert the *LAN_DRV_180* diskette.

Preparing File Service Targets

1. Highlight "Install/Configure File Services" and press <Enter>.
2. Highlight "Prepare a Target File Server" and press <Enter>.
3. Highlight the file server you want to specify as a target server and press <Enter>.

A message appears prompting you to insert the *GATEWAY* diskette.

4. Insert the *GATEWAY* diskette into drive A and press <Enter>.

A message appears, indicating that the DESKTOP directory already exists.

5. If you want to overwrite the DESKTOP directory, press <Enter>. Then press <Escape>.

If you don't want to overwrite the DESKTOP directory, press <F7>.

Preparing File Service Hosts

1. Highlight "Prepare a File Service Gateway" from the "File Services Options" menu and press <Enter>.
2. Select the option you need.

- If you are installing file services on a file server, highlight "File Server" and press <Enter>.

Continue with Step 3.

- If you are installing file services on a bridge, highlight "Bridge" and press <Enter>.

A message appears, prompting you to enter the directory path where your BRIDGE.EXE file is located. Type the path name and press <Enter>.

Skip to Step 4.

3. **Highlight the file server on which you want file services installed and press <Enter>.**
4. **Insert the LAN_DRV_180 diskette into drive A and press <Enter>.**

A message appears, prompting you to insert the GATEWAY diskette.

5. **Insert the GATEWAY diskette into drive A and press <Enter>.**
 - If you are installing file services on a bridge, a message appears asking you whether you want to install the files on the diskette in drive A.
Continue with Step 6.
 - If you are installing file services on a file server, a “Current Targets” list appears on the screen.
Skip to Step 7.

6. **Answer “Y” for Yes or “N” for No.**

- If you want to install the VAPs on a diskette, answer “Yes.”

A message appears, prompting you to insert a blank, formatted diskette. Insert the diskette into drive A and press <Enter>.

A “Current Targets” list appears on the screen.
Skip to Step 8.

- If you want to install the VAPs on a hard disk, answer “No.”

Where to Go from Here

Before the NetWare for Macintosh network can be used effectively, the network supervisor must complete the following tasks:

- Create the necessary DOS directories on the file server.
- Create the rest of the file server's directory structure.
- Create the other objects (users and groups) that will use the file server.
- Establish network security for both users and directories.
- Prepare login scripts.
- Load application and data files into the appropriate directories on the file server.
- Create workstation configuration files and a workstation boot diskette for each workstation.
- Set up print services.

Instructions for completing these tasks are found in the *NetWare Getting Started: Supervisor's Guide* (if you are installing SFT or Advanced NetWare) or in the *Installation for ELS NetWare Level II* manual. These manuals should be used in conjunction with the *NetWare for Macintosh: Supervisor's Supplement*, which provides information for including Macintosh users on the network.



Chapter 5

Using Supervisor Features of the NetWare Control Center

The following pages are an addition to the *NetWare for Macintosh: Supervisor's Supplement* (Rev 1.00). These pages explain the additional features of NetWare for Macintosh v1.1.

The supervisor features of the NetWare Control Center allow a supervisor to perform network administration tasks from a Macintosh. As a supervisor, you can manipulate users and groups; create, delete, and rename a user or group; and make a user security equivalent to a user or group.

With the NetWare Control Center, you can also access NetWare servers across AppleTalk zones.

This chapter explains how to

- Launch the NetWare Control Center;
- Access servers across AppleTalk network zones;
- Manipulate users;
- Manipulate groups.

Note For more information on the NetWare Control Center, refer to the *NetWare for Macintosh: User's Guide*.

Launching the NetWare Control Center

As with any application, you access the NetWare Control Center from the Finder. Unless you are using multitasking software, you must quit any open applications to run the NetWare Control Center. You can run the NetWare Control Center from a local drive, or you can run it from the file server.

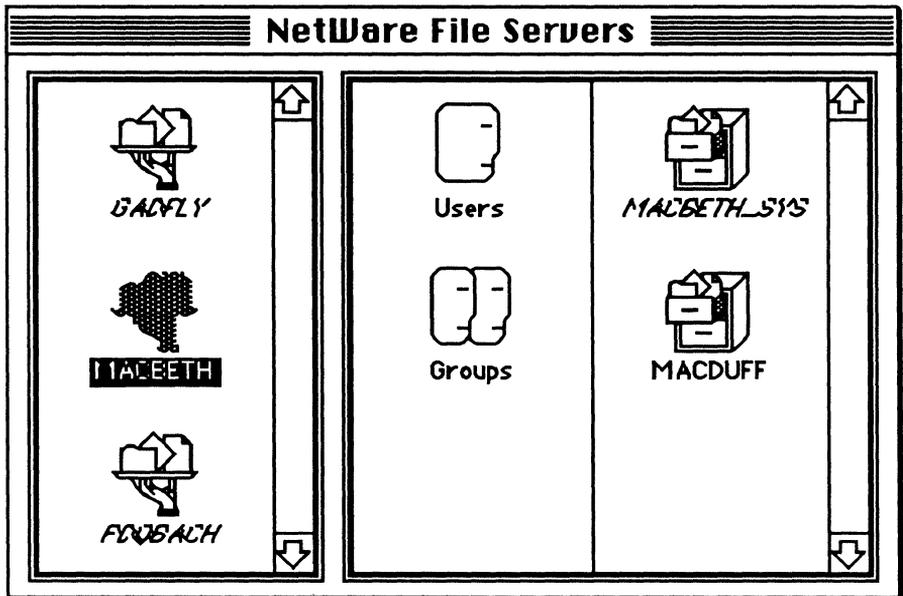
To run the NetWare Control Center, complete the following steps.

1. Double-click on the NetWare Control Center icon.

The NetWare Control Center searches for NetWare file servers.

If no file servers are found, a message appears allowing you to either try again or cancel the application.

If file servers are found, but you are not logged in to any of them, server icons similar to the following appear.



2. Double-click the file server's icon to log in.

You can also log in by highlighting a server icon and choosing "Open Server" from the File menu.

When a file server is found, the NetWare menus appear in the menu bar, and the server window appears on the desktop. The NetWare Control Center includes five special menus: Server, Volumes, Folders/Files, User, and Groups.

After logging in, you will be asked to specify the volume you want to use on the server.

How AppleTalk Network Zones Work

On an AppleTalk internetwork, the networks that make up the internetwork are grouped into zones. Creating zones is a way to organize large internetworks. A zone can include more than one network, but each network can belong to only one zone. A zone is a logical grouping, not a physical one. Figure 5.1 illustrates the concept of zones.

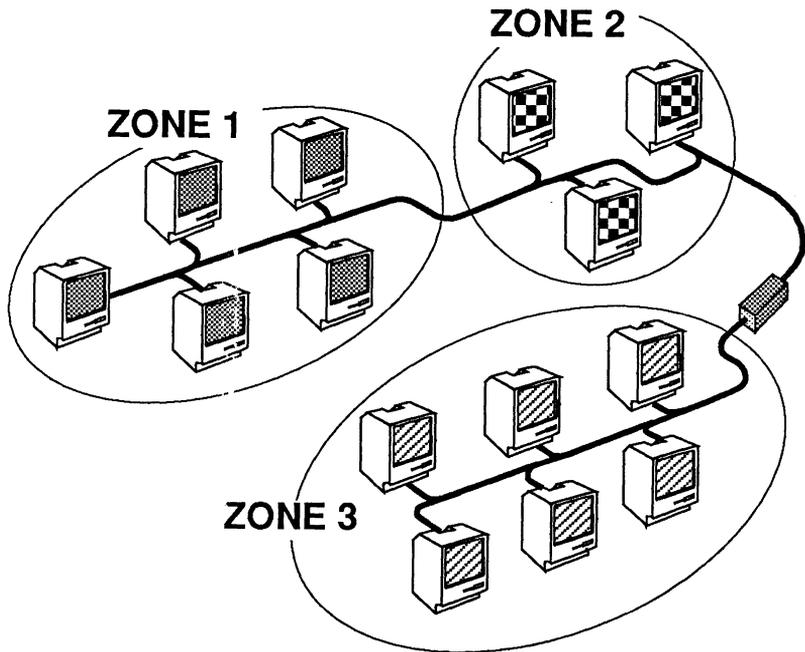


Figure 5.1
How AppleTalk Zones Work

Accessing Servers Across AppleTalk Zones

Occasionally you will need to access a network in another zone on the internetwork. For example, if you want to print to a printer on another network, you must access that network across an AppleTalk zone. The NetWare Control Center lets you do this.

Note You must be logged in as SUPERVISOR (or be SUPERVISOR equivalent) to access servers across zones.

To access a file server across an AppleTalk network zone, complete the following steps.

1. **Click and hold on the Server menu in the menu bar.**

If you are attached to an AppleTalk internetwork, the Select Zone option is bolded.

2. **Highlight Select Zone.**

A list of available zones appears.

Note The NetWare Control Center displays only NetWare servers in a zone. AppleShare servers are not displayed.

3. Select the zone.

Select a new zone either by highlighting it and clicking on the Change Zone button or by double-clicking on the zone. When you select a new zone, the server list is updated.

4. Double-click on the file server icon and log in.

You can also log in by highlighting a server icon and choosing "Open Server" from the File menu.

Manipulating Users

As a supervisor, you can create, rename, and delete users.

Creating Users

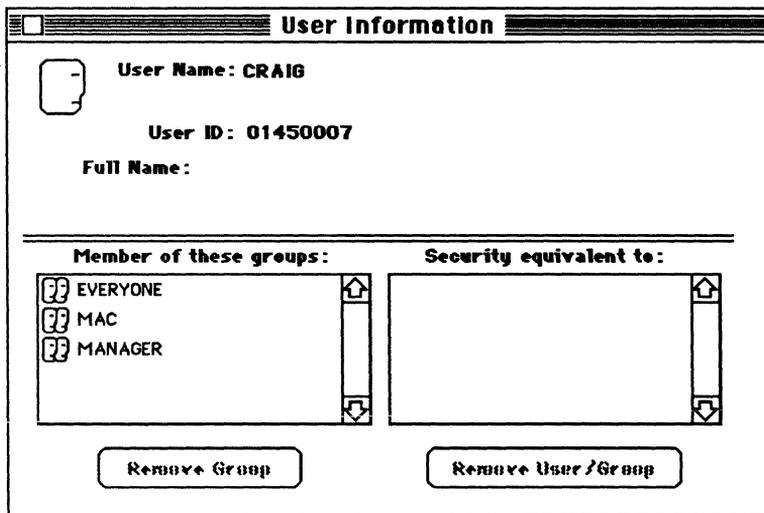
To create users, complete the following steps.

1. **Double-click the Users icon to open the User List window from the server window.**

The Users menu is now activated.

2. **Select Create User from the Users menu.**

A User Information box similar to the following appears.



The image shows a dialog box titled "User Information". It contains the following fields and controls:

- User Name:** CRAIG
- User ID:** 01450007
- Full Name:** (empty field)
- Member of these groups:** A list box containing "EVERYONE", "MAC", and "MANAGER". Each item has a small icon to its left. A vertical scrollbar is on the right.
- Security equivalent to:** An empty list box with a vertical scrollbar on the right.
- Buttons:** "Remove Group" (located below the group list) and "Remove User / Group" (located below the security equivalent list).

3. **Click on the User Name box and type the new user name.**
4. **Click on the Full Name box and type the new user's full name.**
5. **Click on the window's close box in the upper left corner.**

The new user information is saved.

Refer to "Adding Users to a Group" on page 5-13 to add users to a group.

Refer to "Changing a User's Security Equivalences" on page 5-17 to give a user security equivalence.

Renaming a User

To change a user's name, complete the following steps.

1. **Double-click the Users icon from the server window.**
2. **Select the user from the User List window.**

You can select the user either by double-clicking its icon or by highlighting the icon and selecting User Information from the Users menu.

The User Information window appears.

3. **Click on the Full Name box and type the new full name.**

Deleting Users

To delete users from a file server, complete the following steps.

1. **Double-click the Users icon to open the User List window from the server window.**

The Users menu is now activated.

2. **Highlight the name of the user to be deleted.**

You can select a single user or multiple users.

3. **Select Delete User from the Users menu.**

You are asked if you are sure you want to delete the user.

If you click the "OK" button, the user is deleted.

Manipulating Groups

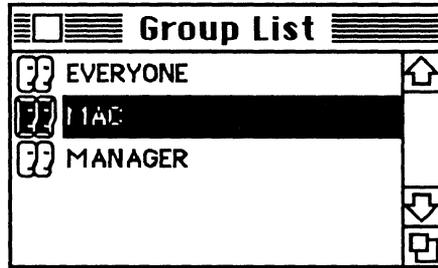
As a supervisor, you can create, rename, and delete a group.

Creating a Group

To create a group, complete the following steps.

1. **Double-click on the Groups icon in the server window.**

A Group List window similar to the following appears.



The Groups menu is activated. Click and hold on the Groups menu bar to open the menu.

2. **Select Create New Group from the Groups menu.**

A Group Information window similar to the following appears.

Group Information

Name:

Group ID:

Full Name:

Group Members:

- ANON
- CRAIG
- DAN
- DEANN
- GAMAL

3. **Click on the Group Name box and type the group name.**

4. **Click on the Full Name box and type a full name or description of the group.**

To add users to a group, follow the instructions under "Adding Users to a Group" on page 5-13.

Renaming a Group

To rename a group, complete the following steps.

1. **Double-click the Groups icon from the server window.**
2. **Select the group from the Group List window.**

You can select the group either by double-clicking its icon or by highlighting the icon and selecting Group Information from the Groups menu.

The Group Information window appears.

3. **Click on the Name box and type the new name for the group.**
4. **Click on the Full Name box and type the full name for the group.**

The Full Name box for a group can include additional information about the group.

Adding Users to a Group

You can add a user to a group either by dragging a group into the User Information window, or by dragging a user into the Group Information window.

Dragging a Group into the User Information Window

To drag a group into the User information Window, complete the following steps.

1. **Double-click the Users icon from the server window to open the User List.**
2. **Double-click the Groups icon from the server window to open the Group List.**

3. **Open the User Information window for the user.**
4. **Click and drag the outline of the desired group from the Group List to the Member of these Groups or to the Security Equivalent To box in the User Information window.**

The user is added to the group.

Dragging a User into the Group Information Window

To drag a user into the Group Information window, complete the following steps.

1. **Double-click the Users icon from the server window to open the User List.**
2. **Double-click the Groups icon from the server window to open the Group List.**
3. **Open the Group Information window for the group.**
4. **Click and drag the outline of the user from the User List to the Group Members box in the Group Information window.**

You can select a single user or multiple users.

The user is added to the group.

Deleting Users from a Group

A user can be deleted from a group either by removing the group from the User Information window, or by removing the user from the Group Information window.

Removing a User from the Group Information Window

To remove a user from the Group Information window, complete the following steps.

1. **Double-click the Groups icon from the server window.**
2. **Select the group from the Group List window.**

You can select the group either by double-clicking its icon or by highlighting the icon and selecting Group Information from the Groups menu.

The Group Information window appears.

3. **Highlight the name of the user to be deleted.**

You can select a single user or multiple users.

4. **Click on the the Remove User box.**

The user is removed from the group, and is no longer security equivalent to the group.

Removing a Group from the User Information Window

To remove a group from the User Information window, complete the following steps.

1. **Double-click the Users icon from the server window.**

2. **Select the user from the User List window.**

You can select the user either by double-clicking the icon or by highlighting the icon and selecting User Information from the Users menu.

The User Information window appears.

3. **Highlight the name of the group to be deleted.**

You can select a single group or multiple groups.

4. **Click on the Remove Group box.**

The user is removed from the group, and is no longer security equivalent to the group.

Deleting a Group

To delete a group, complete the following steps.

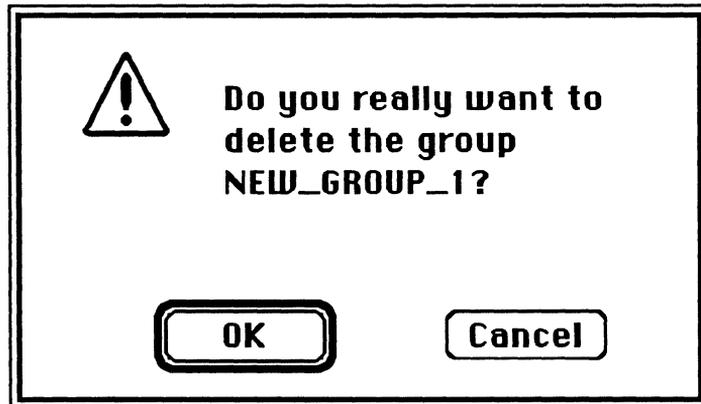
1. **Double-click the Groups icon to open the Group List.**

2. **Highlight the name of the group to be deleted.**

3. **Click and hold on the Groups menu.**

4. **Highlight Delete Group.**

A box similar to the following appears.



If you click the "OK" button, the group is deleted.

Changing a User's Security Equivalences

Using the NetWare Control Center, you can make a user security equivalent to another user or group.

To change a user's security equivalences, complete the following steps.

1. **Open the User List window from the server window.**

Double-click the Users icon to open the User List window.

2. **Select the user from the User List window.**

You can select the user either by double clicking its icon or by highlighting the icon and selecting "User Information" from the Users menu.

The User Information window appears.

- 3. If you want to make the user security equivalent to another user, click and drag that user from the User List window to the Security Equivalent To box of the User Information window.**
- 4. If you want to make the user security equivalent to a group, click and drag that group from the Group List window to the Security Equivalent To box of the User Information window.**

Making a user security equivalent to a group makes that user a member of the group.

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