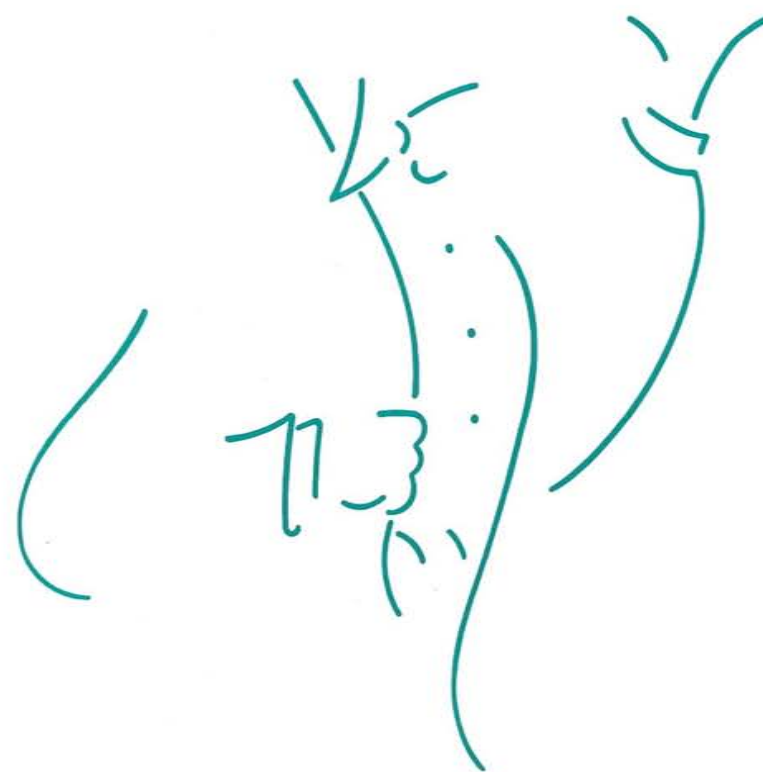


MAC LAN

CONNECT



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*The Complete Macintosh
Connection to the PC World ...*



User Manual

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Written and designed by the boys in the backroom.

Cover Art by Dana Petersen
Logo Design by Donna Marberger

Version 1.0 - December 1988



PREFACE

MACLAN Connect was conceived and designed to bridge the gap between the MS/PC DOS environment and the APPLE world. Sharing information or *Connectivity* is the overriding concern in the computer industry today.

Transform an IBM/Compaq/AT&T or compatible into an AppleShare network file server. Use it stand alone or use it as a LAN Bridge.

MACLAN CONNECT
the solution to one world compatibility.



What MACLAN Connect Does

MACLAN turns a DOS based machine into an enhanced AppleShare File Server fully supporting Apple's AppleTalk Filing Protocol (AFP) standard. Conforming with the standard ensures you of compatibility with future enhancements to AFP. Applications written to run under AFP will run on MACLAN Connect Servers. Any volumes (hard disks) available to this server, whether local hard disks, network volumes, remotely bridged or remote mainframe volumes accessed via a communications card, are available to a MACLAN Connect user.

MACLAN Connect provides a singular solution for maximizing the power on your desktop. PC's and Macintosh's now have equal access to the best tools (desktop publishing to data processing) for completing their jobs with the click of a mouse.

About this Manual

This manual shows you how to set up and configure your system with MACLAN Connect. You will learn how to use the MACLAN server to store and share documents between DOS and MAC applications; how to access folders; and, how to advance and restrict user privileges.

For those familiar with both DOS and AppleShare a Quick Installation guide is provided in Appendix VI.



TABLE OF CONTENTS

Preface	About MACLAN Connect.....	iii
Section I	General Concepts.....	1
Section II	Installation.....	11
Section III	Configuration - MLCONFIG.....	17
Section IV	Server & Volumes.....	23
Section V	Users & Groups.....	27
Section VI	Folders & Privileges.....	35
Section VII	File Extension Mapping.....	39
Section VIII	System Start-up/Utilities.....	43
Section IX	Using AppleShare	45
Appendix I	Release Disk Contents.....	53
Appendix II	File Extension Reference.....	55
Appendix III	Additional Features.....	57
Appendix IV	DOS File Attributes.....	59
Appendix V	MLCONFIG Reference.....	61
Appendix VI	Quick Install Procedure.....	73
Appendix VII	Error Messages.....	75
Appendix VIII	Hardware Setup.....	79
Appendix IX	Reference Table.....	83
Index	84



SECTION I

GENERAL CONCEPTS

This section outlines the logical elements of an AppleTalk Filing Protocol (AFP) Server. Understanding this is essential for proper configuration and administration of the MACLAN Connect Server.

VOLUMES

Volumes are the physical or logical DOS drives that are to be made available to the users on the Apple Network. They are given a name of up to 27 characters and optionally a 8 character password.

USERS & GROUPS

Users

USERS are the people who will be allowed to use the server. They are identified by a name up to 32 characters long and an optional password (maximum 8 characters long)

Logging In

When a user wishes to gain access to the server they will select AppleShare from Chooser. They will then be prompted for a User name and password. Note that the Server doesn't care about the case of the user's name- username *Frank* may be entered as 'FRANK' or 'frank' or even 'fRaNk'. The user's password is case sensitive. A password defined as 'rosebud' will not be accepted if entered as 'ROSEBUD' or 'Rosebud'.



If a user has not been defined on the server they can still gain limited access to the Server by logging in as the special user <Guest>. See the privileges topic below for a discussion of the privileges available to username <Guest>.

Groups

Groups are collections of users with common needs. A group is defined by a name (up to 32 characters) and any number of members from zero (0) to all users on your system. A user can belong to any number of groups or none at all. A user can also have a PRIMARY GROUP defined- consult the privileges topic below for more information on Primary Group.

FOLDERS & PRIVILEGES

Folder Definitions

File access on the AFP Server is controlled at the folder level. Every folder has three (3) different sets of User definable rights/privileges per each User Category:

Categories

1. Owner User who created or was assigned ownership of the folder.
2. Group Users who have common interests and share data.
3. Everyone Any User with access to the MACLAN Server.



Each of the previous categories can be assigned any combination of the privileges listed below:

- | | |
|--------------|---|
| See Folders | Right to see folders contained within the folder for which you are setting access privileges. Opening additional folders within that folder is subject to the privileges defined for those folders. The DOS equivalent term for Folder is "directory" |
| See Files | Right to see the icons of applications and documents in a folder, further includes option to open and/or copy applications or documents. |
| Make Changes | Right to make changes to folder contents such as moving or deleting any of the folder's contents. |

An individual Users' rights to perform a requested action are determined based on:

1. Username
2. Any Group memberships
3. Settings of permissions for the most immediate folder, and all its ancestors.

Example: If you define a folder to have the following privileges:

Owner: Frank
Group: Finance

	Owner	Group	Everyone
See Folders:	X	X	X
See Files:	X	X	
Make Changes:	X		



When Frank logs into the Server, as Owner, he can see all objects (both files & folders) in the folder and freely read and write to them. All Users that belong to the group 'Finance' can see all of the objects in the folder and can read a file in it, but can not change or write to any file. Everyone who opens this folder, whether or not they are the owner or belong to the Group - FINANCE, can see the folders beneath this one but not the files within it.

Any User logged into the Server as <Guest> will have only those privileges granted to Everyone. The user defined as the folder's owner also has the capability to change the privilege definitions for the folder. He can also change the folder's Group and even assign another User as the owner (ie. Give the folder away).

<Any User>

A folder can have its owner defined as <Any User>. This is the lowest possible security setting, giving any Registered User or any <Guest> User the rights of the folder's Owner.

<No Group>

A folder can have <No Group> defined as the folder's group, in which case the folder's group privileges are ignored.

When a user creates a new folder on the network he becomes the folder's owner and his primary group becomes the folder's group. The owner is granted all privileges and the Group and Everyone (system definition) are granted none. The owner may grant additional access privileges at his discretion.



FOLDER DEFAULT PRIVILEGES

A DOS (IBM PC) user may create new folders (directories) without the same restrictions Macintosh users have. Two (2) schemes can be selected PER VOLUME to define the privileges for Macintosh users desiring access to these folders.

A Volume can be defined to use either:

- 1) Volume Default Privileges - a defined owner, group and set of privileges.
- 2) Folder Parent Privileges - the owner, group, and privileges defined for the folder that the new folder is in, known as the folder's parent's privileges.

NOTE: Be sure to map out the best folder privilege scheme for your particular system needs. All rights to all folders is a convenient way to begin but offers virtually no security for your data files. We suggest you print out a directory listing including all sub-directories and decide on the best approach to organize your folder security design.

FILE EXTENSION MAPPING

A distinguishing feature of the Apple Macintosh environment is the linkage between a document and its "Creator" application - the actual program (ie. Aldus Pagemaker, WordPerfect, Excel, etc.). Documents appear to the user as an Icon provided by the creator application. To open or "launch" the application all that is necessary is to open the desired document. Double clicking your mouse on the document Icon selects both the document itself and its creator application to open simultaneously.



The Macintosh operating system supports these capabilities by storing information with every document file, identifying the document "creator" and "type". Macintosh files have a special four (4) letter code which uniquely identifies the application that this specific file was made by. This code is known as the File Creator. The creator Application further identifies a file as some particular TYPE, and stores with it another four (4) letter coded referred to as the File Type.

MACLAN Connect Filename Extension Mapping extends support for these features to files created by DOS applications. Information about a DOS document's "creator" or application is stored somewhat more casually in its three-letter name extension. For example, a file named MYFILE.DOC is likely to be a text document created by a word-processing application program like WordPerfect or Microsoft Word. Extension Mapping is a way of telling the MACLAN server how to treat DOS files with various name extensions.

Example: Aldus Pagemaker version 3.0 for DOS creates publication files with the extension '.PM3'. To have these files appear correctly to Macintosh User a file type with the 'file creator' ALD3 (Pagemaker version code) and 'file type' ALB3 (for publication files) should be defined and the extension '.PM3' should be added to this file type.

The result is that a file created by Pagemaker in DOS will appear with its proper icon to a Mac user and when clicked on will launch the Pagemaker application program.

Note that a file's creator and type are defined only when that file is first 'seen' by a Macintosh user when the file's parent folder is opened. Its file creator and type remain the same even if the definition for its extension changes.



Example: A file named FILE.ABC is created through DOS, and the .ABC extension is defined as having file creator ABCD, and type 1234. It will retain that definition even if the .ABC extension is changed to refer to file creator WXYZ and type 7890. All new .ABC files will have the new definition.

The four character file creator and type codes ARE case sensitive. They must be entered in the proper case.

A particular file definition can have more than one extension defined for it. Both Lotus 123 versions 1 and 2 files can be mapped to Macintosh Excel.

For other applications and file types examine the program's documentation, contact the software developer, or contact Miramar Systems.

PC FILE ICONS

All files that are created through DOS and have an extension which is not defined will use a special PC icon and its file creator will be 'mdos' and its file type will be 'BINA' (for binary). Another predefined file type and icon is the one for DOS text files-its file creator is also 'mdos' and its file type is 'crlf'. This file type can be used for typical DOS text files such as ones with extension of '.BAT'

INSTALLATION

Installing the MACLAN Connect File Server is a three-step process. First the PC system is set up with the correct hardware configuration as noted below in System Requirements. Second, the distribution diskettes are copied to a directory on the appropriate disk drive. Third, the MACLAN Connect Server is configured for your unique network environment including authorized users, groups, network volumes, local shared disks, and so on.



SYSTEM REQUIREMENTS

Hardware

IBM PC/XT/AT/386 or compatible (*)
512K RAM
1 Floppy Drive
1 Fixed Disk Drive (optional if Server is bridging a LAN)
Appleshare PC board, Tops board, AFP compatible board
LocalTalk Connector

Optional: Network Interface Board (Ethernet, Arcnet, etc.)

Software

MACLAN Connect Server Software
MS-DOS version 3.3 or greater
Apple LocalTalk driver version 2.0 or greater (included w/card)
AppleTalk Compatible Interface card with driver
Optional: Network Shell (ie Banyan, Novell, 3Com)

MACINTOSH WORKSTATION REQUIREMENTS

Each Macintosh workstation requires a system version 6.0 or greater and an Apple LocalTalk connector.

*PERFORMANCE NOTE

MACLAN Connect will perform up to the capability of the server engine used. Naturally the higher the performance level of the machine used the "faster" your system will process information.



OPTIONS

LAN BRIDGE

To utilize MACLAN Connect as a LAN bridge it is necessary to dedicate one of the LAN workstations, configured as listed above (including correct Network Interface Card for your LAN topology), to perform the File Server duties.

Additional Fixed Disk Drives - MACLAN can serve any number of locally attached hard disks.

SERVER DIRECTORY

We recommend dedicating a directory exclusively to the MACLAN Connect software package. The MACLAN directory will contain the Server executable file, along with the database and log files required. The directory can reside on any 'Drive' mounted by the Server system - local hard disk, floppy, or LAN attached disk.

CONFIG.SYS

After completing the hardware configuration part of your installation and after copying the contents of the MACLAN installation diskettes you will be asked to effect a change to the CONFIG.SYS file.

CONFIG.SYS is the system file on the boot device (floppy or hard drive) and must have these two (2) entries present:

Files = <n> -where <n> is the maximum number of open files.
Buffers = <n> -where <n> is the number of disk buffers used by the system.

The parameter for the files entry must be set to a minimum of one hundred (100). A larger number may be required for higher levels of server activity.



CONFIG.SYS may also need a line to install a driver for the LocalTalk network card, a PC-LAN NIC, or both. For example if your system uses the TOPS LocalTalk board CONFIG.SYS may need to contain a line to install the device driver called ATALK.SYS. If you have chosen to use Apple's LocalTalk board you are not required to make an entry in the CONFIG.SYS file.

A sample CONFIG.SYS file including the TOPS driver might look like the following:

```
files=100  
buffers=60  
device=atalk.sys /int=60 /dma=none
```

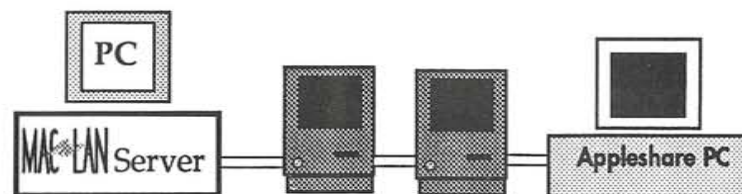
After adding these lines to the file it will be necessary to reboot the computer for the change to take effect.



SECTION II

INSTALLATION

MACLAN SERVER • STAND ALONE



To install MACLAN Connect on the computer which will become your AFP Server the machine selected **MUST** have a hard disk installed and formatted with IBM/MS DOS version 3.3 or above. After completing this take the MACLAN Connect distribution diskette number one (1) and place it in your 'A' drive.

Create a sub-directory below the root, using the DOS make directory command (mkdir, md).

Example: MD \MACLAN

Proceed by copying the entire contents of both MACLAN diskettes into your newly created directory.

Example: Copy A:*. * C:\MACLAN

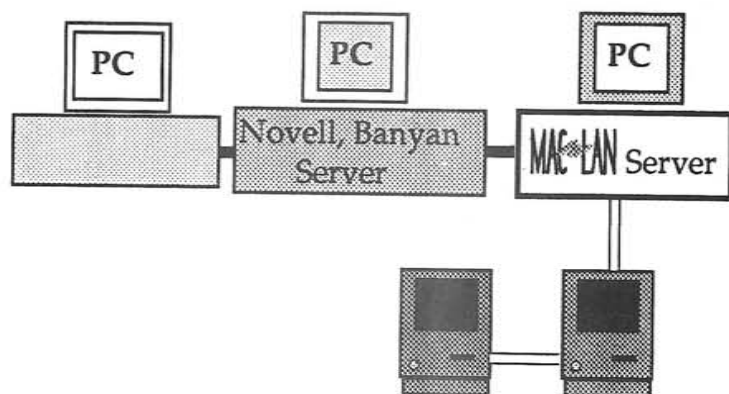


You must now add two lines to your Config.sys file:

```
files=100  
buffers=60
```

Once this is completed you will need to reboot the computer for the change to take effect. Proceed to the topic heading "Organizing Your Files."

NOVELL NETWARE INSTALLATION



To install MACLAN Connect on Novell's NetWare you must either be logged in as Supervisor or have the equivalent security privileges.

Create a sub-directory below the main volume (eg. SYS or VOL, etc.), using either the DOS make directory command (mkdir, md) or the appropriate NetWare utility program.

Example: MD \MACLAN



After completing this take the MACLAN Connect distribution diskette number one (1) and place it in your 'A' drive.

Proceed by copying the entire contents of both MACLAN diskettes into your newly created directory.

Example: Copy A:*. * \MACLAN

You must now effect a change to your CONFIG.SYS file. The file should be altered to include:

```
files=100  
buffers=60
```

After adding these lines to the file it will be necessary to reboot the computer for the change to take effect.

Boot Disk

Novell NetWare versions 2.0a and above require the insertion on your workstation boot disk of the following file: SHELL.CFG. The file may be created using any text editor or the "copy con" method. It should read:

```
File handles = 100
```

Castoff

Before invoking the MLSERVE command you must first issue the NetWare "Castoff" command. This command deactivates the one-line message area on the bottom line of the PC screen.

Proceed to the topic heading "Organizing Your Files."



Banyan Vines Installation

Installation is the same as for NetWare with the exception of the CASTOFF command. The designated work station on the Vines network will need to be logged in with Administrator level privileges.

Before invoking the MLSERVE command you must first issue the "Setmsgs" command. This command activates or deactivates the one-line message area on the bottom line of the PC screen. The message area needs to be deactivated.

Other LANS

Any other LANS such as EasyNet should be set up as "D" for Dos drives.

NETWORK INSTALLATION NOTE: In general when operating MACLAN Connect on a LAN any service that can disrupt a work station (while in an application such as MLSERVE) should be disabled.

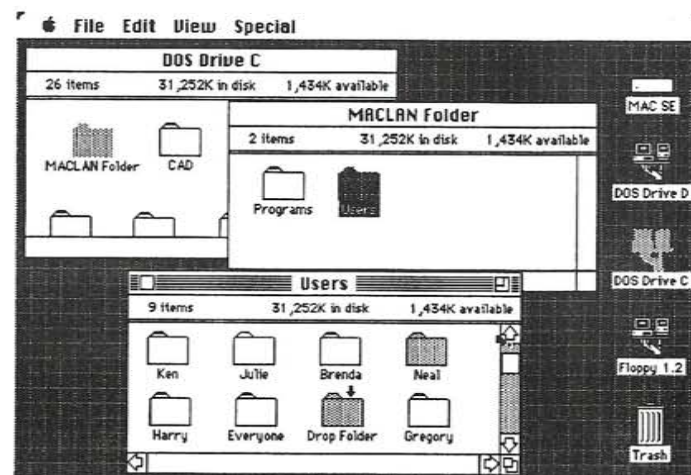
ORGANIZING YOUR FILES

The following information is recommended to ensure both maximum performance and functionality in locating data in your MACLAN Connect environment..

FOLDERS AND MORE FOLDERS

When creating folders it is a good practice not to bury information so deep that you have to spend a great deal of time opening folder upon folder to retrieve it while cluttering up the Desktop at the same time. The fewer folders that have to be opened the quicker you can get to your data and the quicker MACLAN will respond.

The screen below is a recommended example of data distribution in a 5-10 user MACLAN network.



Section III

CONFIGURATION - MLCONFIG

ABOUT MLCONFIG

MACLAN Connect is designed to retain the look of a typical Macintosh application program. MLCONFIG makes use of pull-down menus, dialogue boxes and buttons. To familiarize you with moving about your configuration screen here are some keys and their respective functions.

Left/Right Arrow	Moves highlight bar either to the left or to the right. Can be used within each data field or to move from category to category.
Up/Down Arrow	Moves highlight bar either upwards or downwards within each category selection list (ie.from Add User to Edit User, etc.)
Esc(ape)	Cancels current selection or to back up one step in the menu system. Escape is also used to quit the program at any juncture.
Enter <CR>	To select a highlighted button or item during field or menu entry.
Backspace	Deletes one character to the left of cursor
Del (Delete Key)	Delete a character at a time within data entry fields.

Ins (Insert Key)	Insert a blank space within data entry fields.
Funct 10 <F10>	May be utilized during any portion of data entry cycle to accept what is on the screen. Any and all changes are saved and the screen is reset for additional modifications.
Tab [TAB]	Moves the cursor from field to field without effecting any changes.
First Letter Access	Depressing the first letter of any menu selection will automatically move the cursor to the first instance of that letter. This works on any entry screen or data listing (i.e. user, group, volume names). Successive selections will scroll through listings for repeat occurrences of the selected letter.

You are now ready to set up your MACLAN Connect Server. The configuration program is called MLCONFIG.EXE. MLCONFIG is used to perform initial setup of your AFP server system and to modify an existing system.

USING MLCONFIG

MLCONFIG operates like a Macintosh application program using pull down menus, dialogue boxes, and buttons. Listed below is a summary of features you will encounter when using MLCONFIG.

NOTE: As the server Administration program MLCONFIG can only be used when the server is down.



MENUS

There are both horizontal and vertical menus in the program. Use the cursor movement keys to highlight the selection desired. Press the [Enter] key to select the highlighted option.

In some circumstances an option on the menu will not be available.

Example: the 'Folders/Privs' option on the main menu is not available until a Volume has been defined within which a folder can reside. Options that are not available will be displayed in parenthesis and cannot be selected or highlighted.

A small arrow will appear in the far right of a menu's window at the top or bottom indicating additional options in either direction. The PgUp or PgDn keys will serve to scroll through these additional selections.

ENTRY SCREENS

Whenever keyboard entry is required you will be presented with a entry screen composed of fields and buttons.

FIELDS

The data is entered through the keyboard into labeled fields. Some fields will contain information that cannot be directly entered by the user, such as the bytes total for a Volume or the Main Group for a user which is selected from the list of groups.

When entering data into a field you may use the right and left arrow keys to move backwards and forwards one character within the field without effecting any changes. The [Del] key will delete the character under the cursor and the [Ins] key will toggle insert/overwrite mode. To move from field to field use the [Tab] key or Up/Down cursor keys in the desired direction.



BUTTONS

Buttons are always enclosed in brackets []. To perform the button's operation highlight it using the [Tab] or cursor keys and press [Enter]. Sometimes buttons are not available.

Example: the [Add a Group] button in the user entry screen will not be available if there are no groups defined or you already belong to all groups. Buttons that are not available will not be highlighted and cannot be selected. Some buttons will have keys noted within.

To bypass the "highlight" step simply press the key from any point on the entry screen and the desired function will be performed.

Example: to save an entry screen you can either highlight and select the [Save (F10)] button or press the 'F10' key from anywhere on the entry screen. All entry screens will have a [Save (F10)] button and a [Cancel (Esc)] button.

When the [Save (F10)] button is selected the current data in the entry screen will be saved and the entry screen exited. If [Cancel (Esc)] is selected then any of the changes you have made will be abandoned and the database will not be updated.

CHECK BOX

All Folder privilege screens will include a CHECK BOX. An "X" will appear in the box corresponding to the selected privilege -See Files, See Folders, Make Changes. To remove a setting toggle the "X" key. Striking the key again re-selects the desired privilege option.

GETTING STARTED

You may want to have a list of the following information at hand to speed through the installation process:

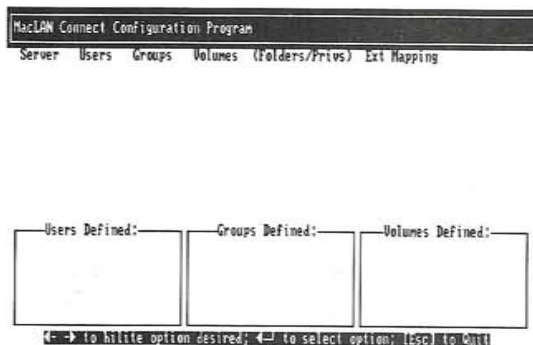
User list	including desired Login names and Passwords
Group Names	Administration, Secretaries, etc.
Filename Extensions	Software packages used and their typical filename extensions (ie Excel files are generally labeled XXXX.XLS, MSWord files named XXX.DOC etc. See Appendix 1 for detailed listing of File extensions.)
Volume Info	Name which Server Volumes will be known; including password (optional)
Privileges	Users and Groups you wish to give access to particular Folders.

To begin the configuration procedure make sure you are in the directory in which the programs were installed.



→ To start the program type: **MLCONFIG <CR>**

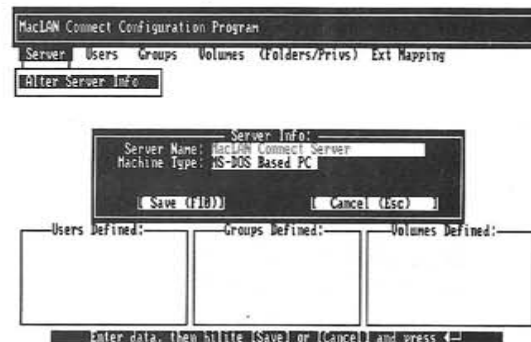
The program will open the Server database and then present the Main Menu:



Section IV

SERVER & VOLUMES

Select **SERVER** from the Main Menu and then select "Alter Server Info" to continue.



ALTER SERVER NAMES

This places you in the Server Information screen. You may enter the Server Name and Machine Type. The Server Name you enter here is what Macintosh users select to gain access to the Server. The default name is MACLAN Connect Server. Machine type is reserved for future use. You may accept the default entry or alter it at your discretion.

DEFINE A VOLUME

Make sure that all Volumes or Disks you wish to make available are defined with a corresponding drive letter (eg. C:, D:).

Add a Volume

Select "Volume" from the Main Menu. Select "Add a Volume" from the Volume menu.



Standalone systems consisting of one physical drive (ie. C:) needonly perform this operation one time. If your hard disk is divided into various drives eg. C:, D:, E:, you will need to define each one separately.

Enter the letter corresponding to the Volume you wish to add. If the Volume has a DOS label it will appear in the Volume Name Field. You may either accept the default or enter a new name.



To define the type of Volume you are adding select either:

- D** signifying a DOS volume and most Netbios based LANS (EasyNet, etc.) It is also the default setting.
- N** signifying a Novell NetWare Volume
- V** signifying a Banyan Vines Volume

Password protection is provided for your system security as well. It is an optional feature. If you wish to assign a password enter one, if not, leave the field blank.



MACLAN Connect will display both the total disk size in bytes and the remaining free space available for each Volume defined.

Select one of the Default Privilege schemes.

Parent Folder Privileges

This option results in newly created folders receiving the privileges of their "parent" folder. MACLAN will check to see what the folder (directory) above the newly created folder's system privileges are and assign those rights to its "offspring." Rights include:

- See Folders
- See Files
- Make Changes

Volume Default Privileges

Selecting this option allows you to define the Default Owner, Group, and Privileges for Folders created by Dos Users.

See the General Concepts Section for further detail on this privilege scheme.

Highlight the desired selection and [TAB] from field to field as needed.

Select the [Change Owner] or [Change Group] button to alter either displayed entry.



Privileges are defined by the Check Box as described in the section "Using MLCONFIG." Select [Save (F10)] to accept the changes made or [Cancel] to ignore them.

Edit a Volume

Select the Edit Volume option from the Volume Menu. Choose the Volume desired from the listing.

The Volume information will be displayed. Enter any changes (eg. Volume Name) and remember to save (F10) your changes or use the Esc(ape) key to abandon any mistakes.

Remove a Volume

Select a Volume from the Volume Box display. You will be asked to verify the deletion. Remember once a Volume is removed from the system its Folders will no longer be accessible to Macintosh Users. Please note however, the Volume will NOT be physically deleted from your hard disk.

Section V

USERS & GROUPS

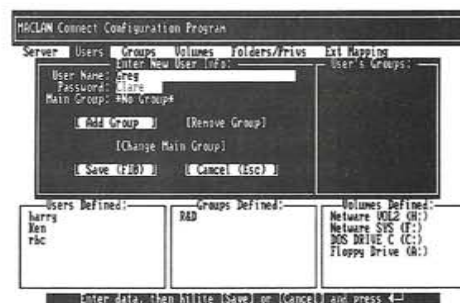
INSTALL NEW USERS

To add users to your system select "Users" from the Main Menu. As in both the Groups and Volumes screens there are three options:

Add a User
Edit a User
Remove a User

Add a User

Select "Add a User" from the option list. Your screen will now display the User Entry screen.



Enter the user name and a password (optional). REMEMBER: this entry screen is "case sensitive" which means MACLAN can distinguish names spelled with either Upper, Lower, or mixed case lettering.

Just as in AppleTalk Networks users may be assigned a MAIN Group. The next data field assigns this group. The "Users Defined" box at the lower left portion of your screen will keep a constantly updated listing of your MACLAN Connect users.

The "Main Group" entry line will be defaulted to <*No Group*>. Skip this line and SAVE.

[Add a Group] If you have already defined any Groups you can add this User to one of them by selecting this option. Select a Group name from the listing displayed.

[Remove a Group] If you wish to revoke a Users membership in a Group select this option. Choose the correct Group from the Users listing and <CR>.

[Change Main Group] New Users always default with their Main Group as <*No Group*>. To change the Main Group to another you already belong to select this option. Select from the available Group listing.

The option to add or change a users Main Group provides a quick way for setting up additional users or updating your setup after the initial startup procedures. Adding a user can be performed from one screen.



Edit a User

Select "Edit a User" from the User options menu. The cursor will move down to the USERS Defined box. Select the user you wish to alter from the display. Make the desired changes by entering the new information in the appropriate fields. When you have completed the modifications select [Save (F10)] or [Cancel] as needed.

Remove a User

Select "Remove a User" from the User Options Menu. Highlight the Username you wish to delete from the display listing. An additional screen will overlay the User screen determining the disposition of any Folders owned by this User.



[Another User]

This button permits reassignment of any and all folders owned by the removed User to another User on the system. This option will not be available if there are no other users.



[<Any User>]

Any and all folders the removed user is owner of will be defined as having <Any User> as their owner.

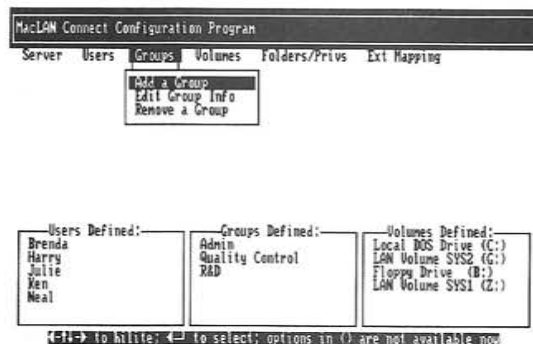
[Vol Def Owner]

Any folders owned by the removed user will change to either one of the following depending on your previously determined Volume set up.

- Volume Default Owner, or
- Folder's Parent Folder's Owner

GROUPS

To add new groups to your system select "Groups" from the Main Menu.



Add a Group

Select "Add a Group" from the Group Option Menu.



Enter your unique Group Name into the Group Name field.

[Add a User]

Select the User to add and <CR> to accept them. A current listing of Group Members is retained on the screen for your reference.

[Remove a User]

If you have no current users for a group the Remove a User option will not be available. Select the username to be removed and <CR>. The name will be removed from the listing.

Edit a Group

Select "Edit Group" from the Group Option Menu. Highlight the desired Group from the Groups Defined box at the bottom middle of your screen and <CR>. The edit steps are similar to the steps followed in the Add a Group screen.

Removing a Group

To remove a Group select this option from the Group Option Menu. Select the Group to be removed and <CR>. Just as in Remove a User an additional Group dialogue screen will appear.



To retain the integrity of your system it is necessary to reassign the deleted groups folder privileges in one of the following ways.

[Another Group]

This option allows you to assign all folders owned or accessed by this group to be reassigned to "another group" name. The cursor bar will highlight the Groups Defined box in the bottom middle portion of your screen. Notice the Group in question is enclosed in parentheses (not an available option). Highlight the replacement Group and <CR>. Your deletion is now completed. The Group will be removed from your defined listing.

[<No Group>]

If you select "No Group" all folders will revert to whatever system default is set up.

[Vol Def Group]

Selecting this option will assign all folders owned or accessed by this group to be reassigned to the Volume's default Group.

After defining your Groups and Group Members you may wish to return to the User Options Menu and define Main Groups for your Users. To leave the Group Options screen and return to the Main Menu back out by using the Esc(ape) key until you have reached the Main Menu.

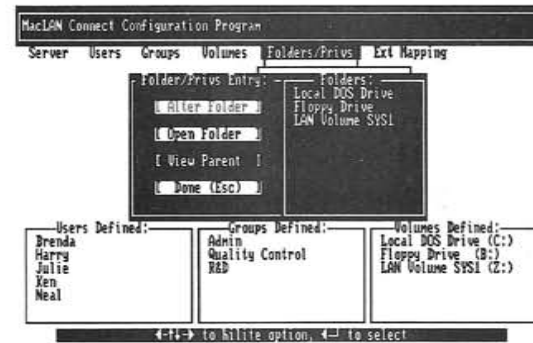


Section VI

FOLDERS & PRIVILEGES

ALTER FOLDER PRIVILEGES

Select "Folder/Privs" from the Main Menu.

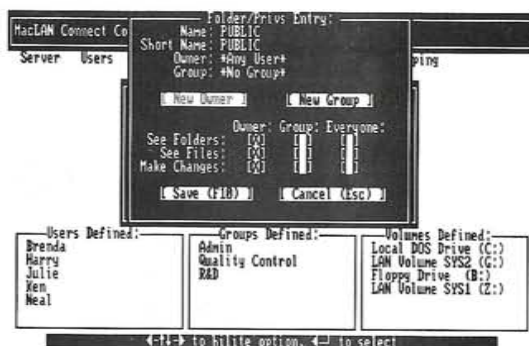


Existing folders will be listed on the right with the options on the left.



Alter Folder

Select "Alter Folder" from the option screen. The cursor bar moves to the Folder listing. Select the desired Folder you wish to define.



Name	This is the long name of your selected folder.
Short Name	The DOS limited character counterpart name derived from the long name (cannot be modified)
Owner	Displays the owner for this folder
Group	Displays the Group owner for this folder. By selecting a Group here you in effect may grant rights to a large group of users (Group Members) with one action.
[Change Owner]	Select the desired username using either a first initial or by scrolling the cursor bar with the Up/down arrow keys and <CR>.



[Change Group]

To change a Group follow the above procedure and <CR> when your selection is complete.

To set Folder Access Privileges select the appropriate CHECK BOX and toggle the "X" key to set the desired privilege.

Open a Folder

To open a folder and examine the folders within it select this option. Select "Alter a Folder" once again to set privileges or "Open a Folder" to descend to another folder level. Once you have selected the desired folder follow the procedure for defining privileges described above under "Alter Folder."

Remember "folders" are the same as "directories" in DOS terminology. MACLAN is effectively allowing you to look at a list of sub-directories and modify the privileges for each of them as you see fit.

View Parent

You may descend through as many "levels" as necessary to get to the desired folder (directory). To "back-up" a level select "View Parent" from the options menu and the display will return to its previous display listing.

Continue this privilege assignment until your system is configured to your exact specifications.



Section VII

FILE EXTENSION MAPPING

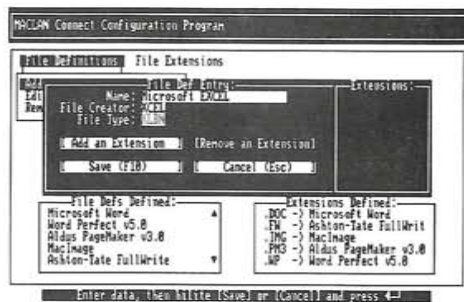
Select "Ext. Mapping" from the Main Menu followed by "Configure Mapping." If you need additional information regarding the use of File Extension Mapping please refer to the General Concepts Section for more detailed definitions.



Two display listings appear on screen for this selection.

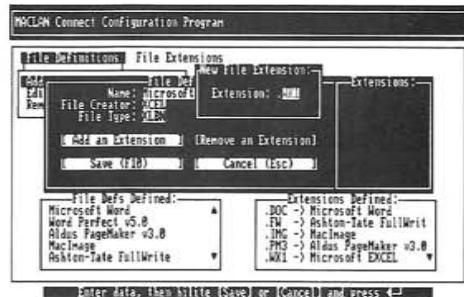
File Definitions
File Extensions

Choices are to ADD, EDIT, or REMOVE extensions. If you have not defined any extensions the choices for EDIT and REMOVE will be encased in parentheses denying access to those options.



FILE DEFINITIONS

You may select to add or edit a file definition. Included in the file definitions are fields for File Creator and File Type. Appendix II contains a listing of popular applications programs File Types and Creators for your reference. There are some desktop utilities which allow you to look at a file's specifications as well.



[Add an Extension]

Enter a three (3) character extension to be added to this file definition.

[Remove an Extension]

Select an extension from the display list to remove.

If you select to remove a file definition you will be asked to select from the list on the screen which to remove.

FILE EXTENSIONS

To assign the specific Macintosh application program to a specific DOS extension select Add or Edit an Extension. After assigning the desired file definition a DOS created file with this extension will now appear on the Mac Desktop with the desired Application's Icon.

Extension

this is the extension itself, it can be up to three (3) characters.

File Definition

This displays what file definition this extension is currently specified to use. It is changed with the following button in the entry screen.

[Change File Def]

Select from the list of file definitions which one to use for this extension.

When you elect to Remove an Extension you will be asked to select from the list of extensions on the screen which to remove.



Section VIII

SYSTEM START-UP/UTILITIES

Once you have completed the configuration of your system you are ready to start up your server operation. Be sure you are either in the MACLAN directory or have it as part of your path setup.

→ **At the DOS prompt type:**

MLSERVE

The server console screen will appear and verify system configurations - both hardware (board drivers); and, software MLCONFIG setup. If your system is not configured properly a console error will occur. Please refer to the Error Message section in Appendix VIII for further information. To access your MACLAN Connect server from the Macintosh side simply access the Apple Chooser menu and proceed per Appleshare workstation procedures. Section IX, Using AppleShare, will discuss this in greater detail.

SERVER LOG FILE

Your MACLAN Connect server sends various messages about operations to a log file. The file is located in the directory containing MLSERVE.EXE and is named AFPSERVE.LOG. The log starts with a startup banner, including startup time and date. Following this are statements describing server events. If the server is terminated normally, a shutdown banner will end the log file.

Each time the server is started a new AFPSERVE.LOG is begun; the old log file will be overwritten if it is not saved. We suggest you always save the current AFPSERVE.LOG file for diagnostics.

SERVER SHUTDOWN

Before shutdown of your MACLAN server it is best to make sure all Macintosh users have logged off the server. From the server console press the Esc(ape) key to start the server shutdown mechanism. A verification will be requested; answer 'y[es]' to continue shutdown. The MACLAN will notify any users still logged in that the server is shutting down, and automatically log them out. All open files will be closed, and the server will remove its name from the Apple network. MACLAN Connect will then terminate, returning you to the DOS prompt.

FAULT TOLERANCE

Every system encounters errors from time to time due to various forces including power fluctuations, power failures, and simply operator errors. In the event your system becomes victimized by one of these problems MACLAN Connect is equipped with a Fault Tolerant Server Rebuild operation.

To correct a system malfunction and corruption of your MACLAN Connect Database all that is necessary is to run the rebuild operation. From the DOS prompt type:

MLRBLD

All files will be rebuilt restoring your systems data integrity to the state it was in prior to the malfunction.

Section IX

USING APPLESARE

MACINTOSH LOGIN

Once the System Administrator has established the MACLAN Connect file server you are ready to login to the network. To use the network from your work station, you will need to have a startup disk with the latest system files and AppleShare work station software installed. If AppleShare is already installed proceed to Logging In.

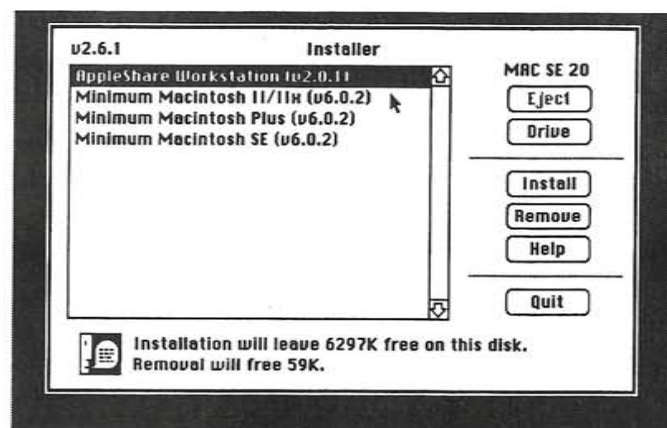
Workstation Startup Disk

AppleShare can be found on the System Diskette labeled Macintosh Utilities I. To add AppleShare to your System Disk place this Disk I in any available floppy drive. Open the disk and double click on Installer.



NOTE: The 6.0 AppleShare driver is NOT compatible with System 6.0.2. You must use like versions. (6.0 system with 6.0 AppleShare)

You will now see minimum system installations for the entire Macintosh family and AppleShare will be among them, double click on AppleShare. The installation program will now inform you of how much disk space will be used when installing AppleShare and how much space will remain on your startup drive. It is important that you select the correct drive before proceeding with install. Click on install and AppleShare will be loaded onto your Startup drive.

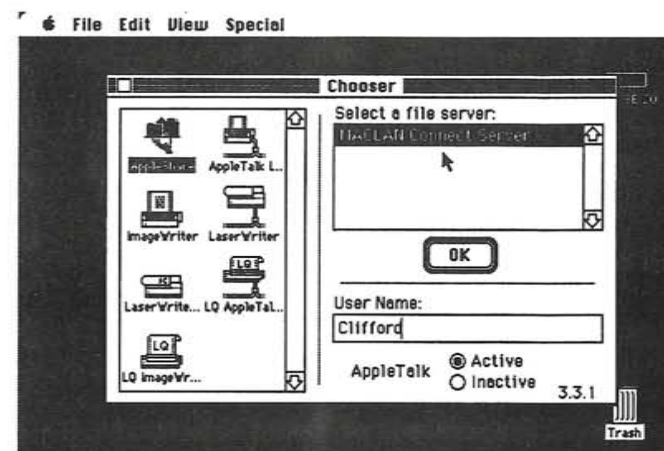


When the installation is completed you will see a message stating *Installation was successful. you may now exit Install.* Restart your Macintosh so it boots up off of the drive that you selected for AppleShare.

You are now ready to proceed with **Logging In** on your MACLAN Connect Server.

LOGGING IN

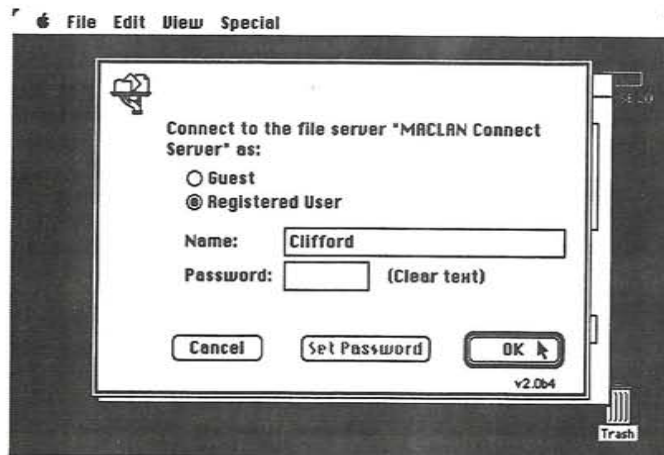
The Chooser shows an AppleShare server icon and any other icons that represent each resource (LaserWriter) available on your system.



Click the AppleShare server icon to select it and display the servers currently available on the network. To select a particular server either double-click the name or click the name followed by clicking on the OK.

File Server Selection

A dialogue box will appear after you've selected the appropriate file server. This is the LOGON Box. If you have a registered User name and password enter it here or, if not, you may log on as a "guest".

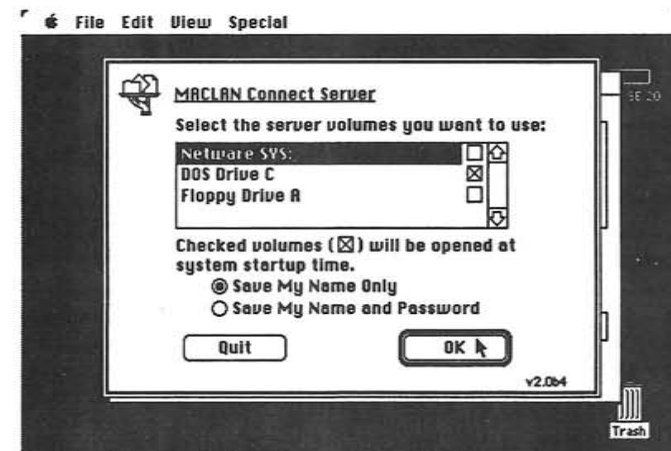


Enter your name, press Tab, then type your unique password followed by clicking OK. MACLAN maintains the AppleTalk security feature of scrambled passwords to avoid detection through electronic eavesdropping.

If you login as "Guest" you will not need to enter either your name or a password to gain access to the system.

Volume Selection

A new dialogue box will appear and ask you to select any server volumes you want to use. Volumes are made available to you by the System Administrator through the MLCONFIG program.



Note: Volumes are hard disks that are part of the file server. Some Local Area Networks have several volumes available to them.

Select the volume desired by clicking on it with the mouse. You may either double-click or click on the name followed by clicking OK. To select multiple volumes at once Shift-click on the names desired and then click OK.

Dimmed volume names signify volumes that are already mounted or a lack of access privileges to this particular volume. See your System Administrator to gain access. Each time you click OK on a volume the MACLAN icon will appear on your workstation desktop.

Clicking on the box to the right of each volume name will automatically select that volume to be opened upon startup.

When you have completed selection of the volumes either close the box from the File Menu or simply click the close box.

Working on the Desktop

Your desktop should now have the MACLAN Connect icons displayed and ready to begin work. To select and open the icons either select the desired one and choose Open from the File menu, or simply double-click on the icon itself.



The volume window appears on the desktop. If you're System Administrator has elected to utilize MACLAN's File Extension Mapping feature you will see familiar icons for the various applications programs employed on your system.

All normal Macintosh System functions may be performed as usual. Creating New Folders and opening files require no new procedures. If you are unable to perform any of these functions you may not have the proper access privileges for the volume selected. See your administrator.

Logging Off The Server

When you have completed work for the day and wish to log off drag all server volume icons to the Trash. The server volumes and all volume windows will be cleared from the desktop. You have now completed the log off procedure. In the event the server is shutdown while you are working each workstation will receive an on screen message signifying the server is being shutdown.



APPENDIX I

Release Disk Contents

MACLAN Connect is contained on two (2) 360K DSDD diskettes which include the following files:

MLSERVE.EXE	the AFP file server
MLCONFIG.EXE	server configuration utility
MLRBLD.EXE	database rebuild utility
FILE_EXT.DAT	file extension defaults
FILE_EXT.IDX	file extension defaults
FILETYPE.DAT	file extension defaults
FILETYPE.IDX	file extension defaults
CONFIG.TOP	sample config.sys file for using a TOPS board with the Default Settings in a MACLAN Connect File Server.

APPENDIX II

File Extension Reference

	Creator	Type	Def Ext.
Pagemaker	ALD3	ALB3	.PM3
Pagemaker Templates	ALD3	ALT3	.PT3
Microsoft Word	MSWD	WDBN	.DOC
Wordperfect	SSIW	WPPC	***
Excel	XCEL	XLBN	.XLS

*** User defined extension. Wordperfect does not have a default DOS extension.

APPENDIX III

Additional Features

Real-time file update

Folder contents are updated each time a folder is opened. Any new entries made from the DOS side or by another workstation on the network will appear on opening (enumerating) the folder; entries that have been deleted will disappear. There are other times that a Workstation will ask the Server to update the Folder contents.

EXAMPLE: any time some article is "thrown in the Trash." Any time a like update is done, new items may appear and existing items may vanish.

Attribute Reflection

Both DOS and Macintosh files can have certain "attributes", such as "READ ONLY" and "INVISIBLE." File attributes are reflected through from DOS to Macintosh and vice versa.

EXAMPLE: A DOS file that has the attribute "READ ONLY" will be shown as "locked" to the Macintosh workstation (determined by asking Finder to "GetInfo" on a file). Conversely if a file is locked by the Macintosh user, the DOS file it represents will be marked with the attribute "READ ONLY." This ensures that a locked file will be protected from modification by DOS users.

APPENDIX IV

DOS File Attributes

Files located in your DOS directories will appear differently under a variety of conditions: MACINTOSH long name files, duplicate file names, etc.

If the file name is greater than the DOS conventional eight (8) character length MACLAN Connect will place a "!" symbol preceding the file name. This represents the data fork portion of the file.

A file name preceded by the "#" symbol represents the resource fork.



APPENDIX V

MLCONFIG Reference

The following is a schematic of the menu structures of the MLCONFIG program:

Server

- Server Names

Users

- Add a user
- Edit a user
- Remove a user

Groups

- Add a group
- Edit a group
- Remove a group

Volumes

- Add a volume
- Edit a volume
- Remove a volume

Folders/Privs

- Alter Folders

File Extension Mapping

- File Definitions
- Edit a file extension
- Remove a file extension

OPTION DESCRIPTIONS

Server

Alter Server Names

The Server Name Entry screen will appear.

Server Entry Screen Field Descriptions

Server Name

This is the name that users will know the server by. When they select AppleShare through CHOOSER this name will appear for them to select. If you have more than one AppleShare server each name must be different. The default name is 'MACLAN Connect Server'

Machine Type

This name is to describe the kind of machine that is being used as the server. It can be any name you wish to use. The default is 'MS-DOS Based PC'. It does not display nor is it used in the normal operation of the system.



USERS

If you select to Add or Edit a user you will be presented with the User entry screen and a list of all groups this user currently belongs to.

User Entry Screen Field Descriptions

User Name The name by which the user will login to the network. Not case sensitive.

Password The password that this user must enter to gain access to the network. If this field is left blank then the user will not have to enter any password to login.

Main Group The group which will be assigned 'folder's group' to any folders that this user creates. May be defined as <No Group> which specifies that new folders this user creates will have no group assigned.

This field is not entered directly- use [Change Main Group] button described below.

Buttons

[Add a Group]
Select this to add this user to a group. You will be asked to select from the list of current groups- all groups this member already belongs to will be unavailable. After selecting the group it will be added to the list of user's groups on the screen.



This button will not be available if there are no groups defined or if the user already belongs to all current groups.

[Delete a Group]

Select this to remove this user from a group. You will be asked to select from the list of user's groups which to remove the user from, that group will be removed from the list.

This button will not be available if the user belongs to no groups.

[Change Main Group]

Select this to change the user's main group as displayed in the Main group field (described above). You will be asked to select from the list of user's groups which to make the user's main group.

This button will not be available if the user belongs to no groups.

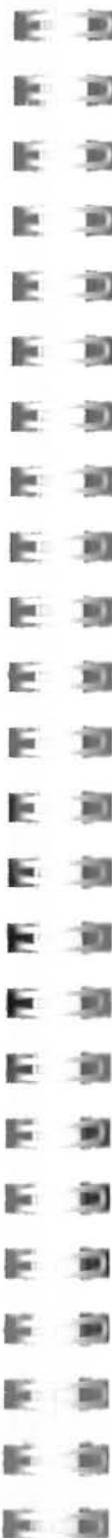
If you select REMOVE A USER you will be asked to select from the list of currently defined users which one to remove.

After selecting the user to remove you will be prompted to define what should be done with any folders this user may own.

Remove User Screen

[Another User]

If you select this button you will be asked to select from the list of current users, any and all folders the removed user owns will now be owned by the selected user. This option will not be available if there are no other users.



[<Any User>]

Any and all folders the removed user is owner of will be defined as having <Any User> as owner- see privileges above in the general concepts section.

[Vol's Default Owner]

This option will change any folders the removed user owns to be owned by either of the following, depending on how the volume is defined:

- The volume's default owner
- The folder's parent folder's owner

GROUPS

If you select to Add or Edit a group you will be presented with the Group entry screen and a list of all users who are members of this group.

Group Entry Screen Field Descriptions

Group Name: The name by which the group will be known. Not case sensitive

Buttons

[Add a User]

Select this to add a user to this group. You will be asked to select from the list of current users- all users which are already members of this group will be unavailable. After selecting the user it will be added to the list of group's members on the screen.

This button will not be available if there are no users defined or if the all users are already members of this group.



[Delete a User]

Select this to remove a user from this group. You will be asked to select from the list of this group's members which user to remove, that user will be removed from the list. The user itself will not be removed, only its membership in the group.

This button will not be available if the user does not belong to any groups.

If you select REMOVE A GROUP you will be asked to select from the list of currently defined groups which one to remove.

After selecting the group to remove you will be prompted to define what to do with any folders owned by this group.

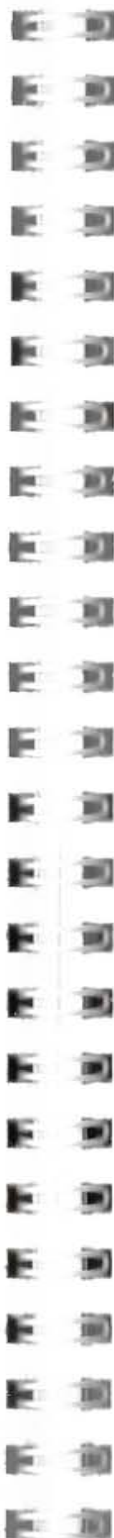
Remove Group Screen

[Another Group]

If you select this button you will be asked to select from the list of current groups, the selected group will replace the removed group as 'folder's group' in any and all folders the removed group is defined 'folder's group' for. This option will not be available if there are no other groups.

[<No Group>]

Any and all folders the removed group is defined 'folder's group' for will be defined as having <No Group> as 'folder's group'- see privileges above in the general concepts section.



[[Vol's Default Group]

This option will change any folders the removed user is defined as 'folder's group' to be defined as having either of the following for its group, depending on how the volume is defined:

- The volume's default group
- The folder's parent folder's group

VOLUMES

If you select to Add or Edit a volume you will be presented with the Volume entry screen.

Volume Entry Screen Field Descriptions

Drive ID	This is the drive letter by which the desired volume can be accessed from DOS. Local hard disks are usually C:, and a network volume could be any letter. Once this is entered the volume is verified and information for the fields below are calculated.
Volume Name	The name by which the volume will be known. When users login to the network they will be asked to select from a list of the volume names defined for this server. When adding a volume the DOS volume label (if any) is used as the default.



Password Volumes can have a 8 character password associated with them that must be entered before a user can access the volume. If none is entered then any user can gain access to the volume (subject to their folder privileges, of course).

Bytes Total The total size of the volume in bytes. Not a data entry field.

Bytes Free The number of bytes that are unused on the volume. Not a data entry field.

Buttons

The following two buttons define what privileges a folder that is created in DOS will have. An [X] indicates which option is currently selected.

[Folder's Parent Privs]

Selecting this defines that a folder (directory) created in DOS and accessed by a Macintosh will have the same privileges as the folder's parent folder.

[Vol's Default Privs]

Selecting this will present another entry screen where the default privileges for any folder (directory) created in DOS and accessed by a Macintosh will have:

If you select to remove a volume you will be asked to select from the list of defined volumes which to remove. All files, folders, icons, etc. will be removed from the network database, they are not actually deleted from the disk, rather removed from the database so they will not be accessible by Macintosh users.

CAUTION: Information on files in the database is essential for a Macintosh to access them. Use this option carefully!



FOLDERS/PRIVS

[Alter Folders]

This option lets you define the privileges to folders for Macintosh users on the network.

The Alter Folders screen will appear and initially a list of the volumes defined.

Alter Folder Screen

Buttons

[Alter Folder]

Select this option to alter the privileges for a folder in the list. You will be asked to select from the list of folders on the screen which one to alter. The Folder Privs Entry screen will appear:

[Open Folder]

This option will display the folders within a folder in the list. You will be asked to select from the list of folders on the screen which one to open. If the folder selected has no folders within it then <No Folders> will appear in the list.

[View Parent]

This option will 'back-up' one level and display the currently displayed folder's parent folder.



FILE EXTENSIONS

File Extension Mapping

When this is selected 2 lists appear at the bottom of the screen: the currently define file definitions and file extensions. Also the following options are available.

File Definitions

If you select to add or edit a file definition the File Definition Entry Screen will appear displaying the list of extensions pre-defined.

File Definition Entry Screen Field Descriptions

Description: This describes the file definition.

File Creator

This is the 4 character code for the application the file is intended for. This is case sensitive, enter it exactly as specified.

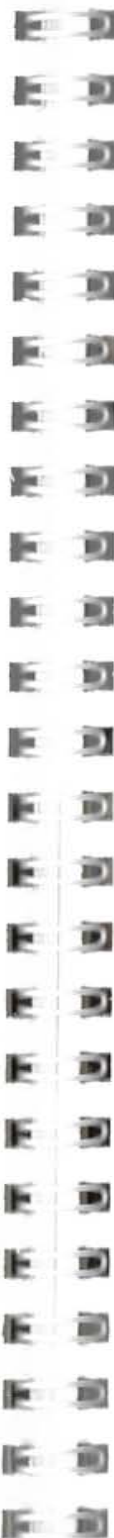
File Type

This is the 4 character code for the type of file. This is also case sensitive, enter it exactly as specified.

Buttons

[Add an extension]

You will be prompted to enter a 3 character extension to be added to this file definition. It will be added to the list..



[Remove an Extension]

You will be asked to select from the list of extensions for this definition which to remove.

If you select to remove a file definition you will be asked to select from the list on the screen which to remove.

If you select to Add or Edit an extension you will be presented with the Extension entry screen:

Extension Entry Screen Field Descriptions

Extension: This is the extension itself, it can be up to 3 characters.

File Definition: (not entered directly)

This displays what file definition this extension is currently specified to use. It is changed with the following button in the entry screen.

Buttons

[Change File Definition]:

You will be asked to select from the list of file definitions on the screen which to use for this extension.

If you select to remove an extension you will be asked to select from the list of extensions on the screen which to remove.



APPENDIX VI

Quick Install Procedure

1. Create MACLAN Connect sub-directory on hard drive
Example: MD \MACLAN
2. Copy contents of Distribution diskettes into the newly created MACLAN directory.
3. Configure LocalTalk interface board utilizing Appendix IXI
4. Set up Config.Sys file on boot disk.
Example: files=100
buffers=60
device=atalk.sys (for use with Tops board)

If you are using an AppleTalk board insert the following command in your Autoexec.bat file: *Atalk*

Make sure that *Atalk.exe* is in the appropriate directory.

5. Run **MLCONFIG** to set up Server, Volumes, Users, Groups, and File Extension Mapping.
6. Type **MLSERVE** to start up the file server.
7. Enter Chooser from the workstation side and select AppleShare to access Servers and Volumes.

NOTE - For Local Area Network (LAN) installations you must be logged in with Supervisor/SuperUser level privileges. Remember to select the type of Network you are using in **MLCONFIG**.

APPENDIX VII

Error Messages

If you are unable to solve the problem with the suggested fix please call Miramar Systems and have the following information available:

1. MACLAN Connect version number
2. Hardware configuration

"Can't open logfile"

The file "afpserv.log" could not be created on the current directory.

FIX Check rights to current directory. You should have at least read, write, delete, open, create and search privs. The file may have been set read-only. If on a PC-LAN check to see if anyone else has the specific file open. It is possible that the server is running on another workstation.

"Could not allocate enough open file handles"

Insufficient memory to open files requested.

FIX Add memory to specified amount.

"db_init driver not installed"

Incorrect DOS version

FIX Check DOS version in use. Must use DOS version 3.3.



"Error initializing database, error=X"

A problem was encountered initializing the server database, probably insufficient memory.

FIX Make sure the PC has sufficient memory

"Error creating file 'XXX'"

the server database file could not be created in the current directory.

FIX Check rights, file attributes, and if file is already open as above

"Error rebuilding file 'XXX'"

the server database file was corrupt and the file could not be fixed

FIX Call your dealer or Miramar Systems

"Error opening file 'XXX'"

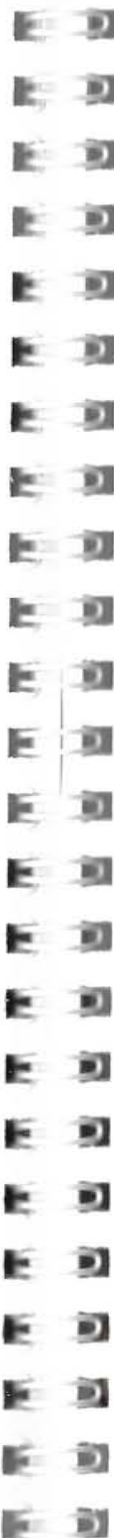
Either the server database files don't exist or could not be opened.
Could happen if MLCONFIG has not been run to setup the server database.

FIX Make sure the file exists, if not restore from last backup.

"net_init: AppleTalk driver not installed."

The server did not find the AppleTalk driver loaded in memory.

FIX Make sure the command to load the driver is executed before the server is run; depending on the driver type. Apple LocalTalk driver may be executed from command line while the Tops driver can be included in the config.sys file.



Make sure the parameters used with the command match the board's and that the board does not conflict with anything else in the PC.

For drivers with optional software interrupts make sure it is configured to use software interrupt 60 (hexadecimal). (example, with TOPS: /INT=60)

"net_init: AppleTalk driver failed to initialize."
driver failed initialization

FIX Make sure the parameters used with the command match the board's and that the board does not conflict with anything else in the PC.

"net_init: AppleTalk hardware error."
Driver found a problem with AppleTalk card

FIX Fix or replace board

"Unable to delete file XXX"
The file XXX is on the current directory but cannot be deleted.

FIX Check rights, file attributes, and if file is already open as above.

NOTE: The 6.0 AppleShare driver is NOT compatible with System 6.0.2. You must use like versions. (6.0 system with 6.0 AppleShare)



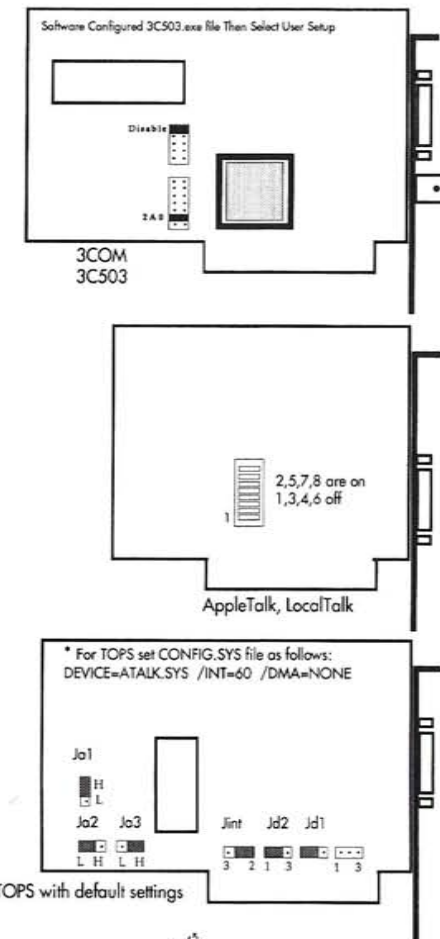
APPENDIX VIII

Hardware Setup

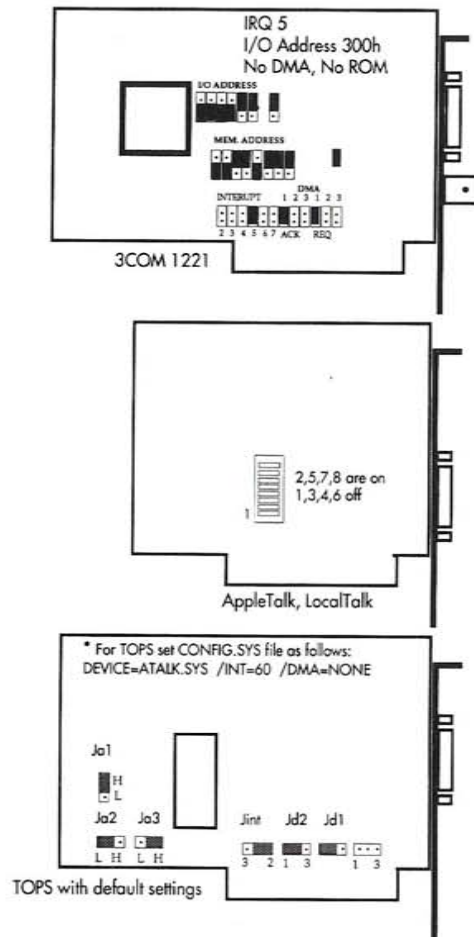
The following diagrams are provided as a quick reference when configuring a Local Area Network card with either a TOPs Card or Apple LocalTalk Card in the MACLAN Connect Server

NO CONFLICT LIST

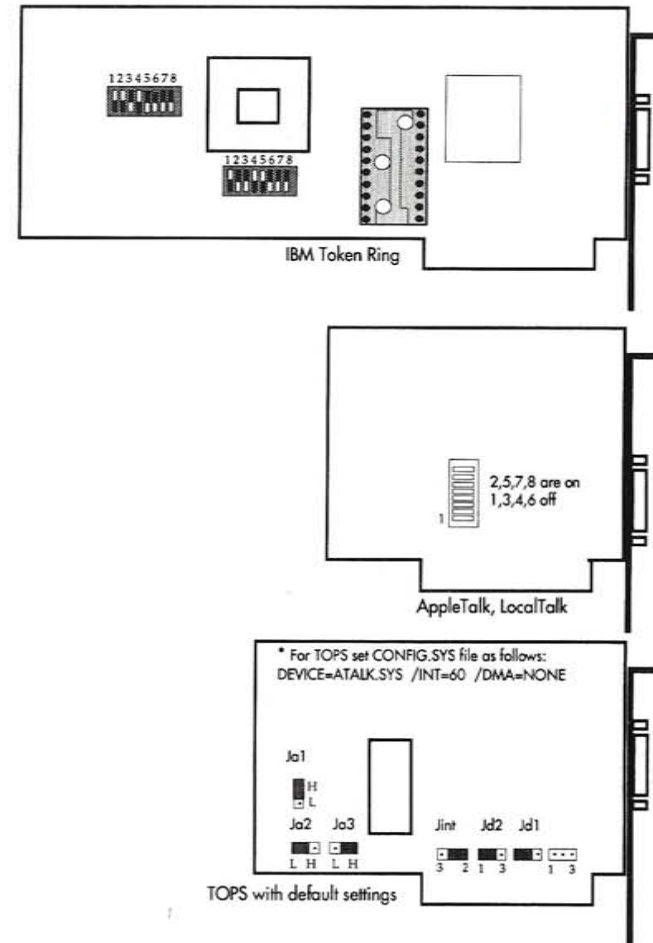
Recommended Configurations 3COM 3C503 EtherLink II Card.



NO CONFLICT LIST
Recommended Configurations for 3COM w/ Apple LocalTalk or TOPS Card



NO CONFLICT LIST
Recommended Configurations for IBM Token Ring w/ Apple LocalTalk or TOPS Card



APPENDIX IX

Reference Table

MACLAN Connect has been tested with the following LAN Topologies:

<u>PC Board</u>	<u>IRQ</u>	<u>I/O Addr</u>	<u>DMA</u>	<u>ROM/RAM</u>
3COM	3	300h	No	No
AT&T StarLAN	2	360h	No	C000
Corvus Omninet	2	248h	No	No
Gateway G-Net	3	2E0h	No	D000
IBM Token Ring	2	A20h	No	CC00/D800
Micom NI5010	3	300h	No	D000
Micom NI5210	2	300h	No	D000
Novell NE1000	3	300h	No	No
Novell S-Net NIC2		2B8h	No	No
Novell Star Intell.No		2B8h	No	No
Novell RX Net	2	2E0h	No	D000
Proteon Pro-Net-102		300h	No	No
SMC Arcnet	2	2E0h	No	D000
Pure Data	2	2E0h	No	D000

MACLAN Connect is compatible with the following AppleTalk/LocalTalk cards:

Apple LocalTalk
 Apple AppleTalk PCBA
 TOPS Card and Flash Talk PCBA *

* For TOPS cards using the default settings make sure your CONFIG.SYS file is configured properly. Example:

DEVICE=ATALK.SYS /INT=60 /DMA=NONE

INDEX

AppleShare	45-51
Banyan	14, 24
Change Owner	36
Directories	
Sub-directories	15
DOS	24, 57, 59
Errors	75-77
Everyone	2
Files	
Attributes	57, 59
Creator	5-6, 40, 70
Type	6, 40, 70
File Definitions	40-41
File Extension Mapping	
Add	39-41
Description	5-7, 70-71
Edit	39
Reference	55
Remove	39, 41
File Extensions	41
Folders	
Alter	35-37, 69
Check Box	20
Default Privileges	5
Description	2
Owner	36
Parent	25, 37, 68, 69
Function Keys	18
Getting Started	21
Group	2
Groups	
Add	28, 31, 63
Alter Folder	36
<Another Group>	33, 66
Description	2, 65



Group	
Edit	30
<No Group>	4, 33, 66
Main Group	28, 63, 64
Remove	28, 32-33, 64, 66
Volume Default Group	33, 67
Installation	
AppleShare	45-46
Hardware	79-81
MACLAN Connect	11-14
Quick	73
Log File	43
Logging Off	51
Logging In	47-50
Make Changes	3
MLCONFIG	13-22, 53, 61-71
MLRBLD	44, 53
MLSERVE	43, 53
Networks	
Installation	12-14
Other	24
Topologies	83
Novell	12-13, 24
Owner	2
Password	1, 28
Requirements	
Config.sys	9-10
Hardware	8
Software	8
See Files	3
See Folders	3
Server Names	23, 62
Shutdown	44
Users	
Add	27-28, 31
<Another User>	29



Users

<Any User>	4, 30
Description	1, 63
Edit	29
Login	1-2
Password	29
Remove	29, 31, 64-65

Volumes

Add	23-26
Define	23
Description	1, 67, 68
Default Owner	30
Edit	26
Password	1, 68
Privileges	
Parent Folder	25
Default	25, 30, 68
Selection	49



MACLAN Connect™ Remote ADMIN

Supplement ver1.1

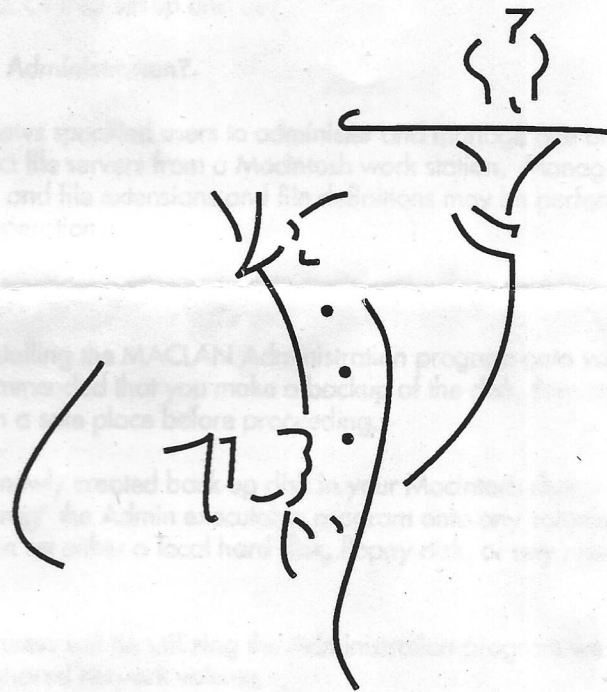


Table of Contents

Remote Admin Description.....	1
Installation/Setup.....	2
Admin Login.....	3
Menu Selections.....	4-8

Miramar Systems User Guide

MACLAN Remote Administration

This guide explains how to use the file server remote administration program in concert with your MACLAN Connect file server.

What You Need to Know

To use this guide, you need to be familiar with basic Macintosh vocabulary and skills. If opening files and using folders are not familiar tasks, you need to review your Macintosh owner's guide before proceeding.

This guide assumes that you have a MACLAN Connect Server set up and that your Macintosh Computers are properly connected to it. This guide additionally assumes you have read, and are familiar with the MACLAN Connect User manual, especially the section on MLCONFIG set up and use.

What is Remote Administration?

This program allows specified users to administer and manage one or several MACLAN Connect file servers from a Macintosh work station. Managing users, groups, volumes, and file extensions and file definitions may be performed concurrent with server operation.

Installation

1. Before installing the MACLAN Administration program onto your Macintosh it is recommended that you make a backup of the disk, then store the original in a safe place before proceeding.
2. Place the newly created back up disk in your Macintosh disk drive. Open the folder and "drag" the Admin executable program onto any volume. You may install Admin on either a local hard disk, floppy disk, or any network volume.

Note: If multiple users will be utilizing the Administration program we suggest installing it on a shared network volume.

Set Up

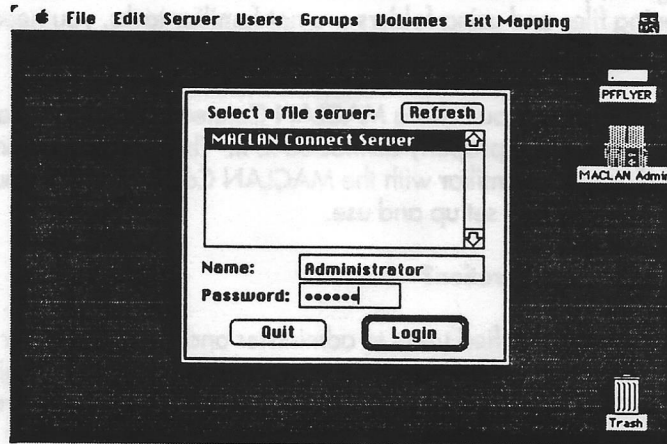
To access Remote Administration a user must be pre-defined to have "Admin" privileges. This operation is accomplished by:

1. Running MLCONFIG on the PC Server
2. From the USER Pulldown Menu select the *Add/Edit a User* function
3. Create/Alter a User whom you wish to become a Network Administrator
4. Select the ADMIN option box by typing an X into it. Now save using the (F10 Key)

Admin Login

To access the Remote Admin program simply locate the icon and double-click on it. Upon startup the MACLAN Admin copyright window will appear. Depressing any key or the mouse button will remove it from the screen and place you in the login screen.

1. Remote Admin requires you to login to the server you intend to administer even if you have already logged in through Chooser. You will be presented a list of all available servers.



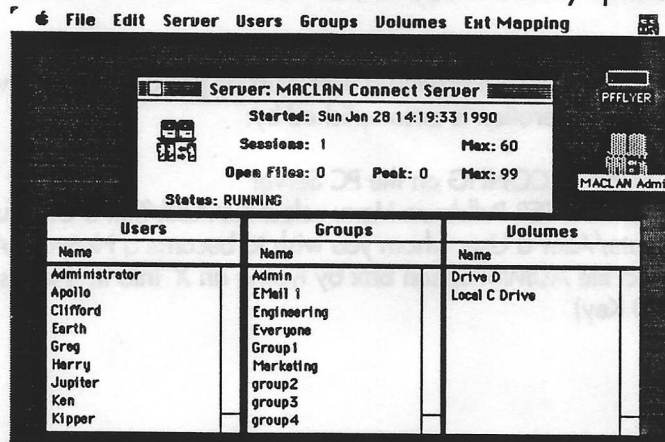
2. Enter your user name and password along with the desired server.

Note: Remote Admin can ONLY function on MACLAN Connect file servers which are version 1.1 or later.

After successfully logging in, your screen display will mirror the MLCONFIG screen displays. Dialogue boxes on the bottom portion with Menu selections across the top line.

Users - Groups - Volumes will be displayed in the boxes at the bottom of your screen.

The Server Information window will also be displayed in the center of your screen. This window contains current server status and is automatically updated every five



(5) seconds when left on the screen.

Menus

MENU NOTES: Menu Selection Options work in concert with dialogue boxes that contain lists of related items. For example, the User Dialogue Box contains all Users defined for the particular server you are administering. Likewise for Group and Volume dialogue boxes.

There are button options which will add and remove items from the object's list. Remember that an object must have been saved before you can add items to the object's list. For example, you must first save a new Group before you can add members to it. The "Add" button will not be enabled unless the object is previously saved. To remove one or more items from a list you may use the Shift key and mouse to highlight one or more items (users, groups, etc.) and then press the "Remove" button. The "Remove" option is not available unless an item has been highlighted.

SERVER: This menu option has three selections

1. *Server Info:* displays current status of your MACLAN Connect file server and is default displayed upon startup of Remote Administration.
2. *Start Shutdown:* allows you to initiate the server's shutdown timer mechanism. A dialogue box will display affording you an entry for the number of minutes the server should wait until it shuts down. If the shutdown timer has been triggered this menu option will change to:
3. *Cancel Shutdown:* Selecting this option cancels the shutdown timer mechanism and restores the server to normal operation.

The Server Info window will display the "time until shutdown" in the Status Field.

4. *Select Another:* Log out of your current session with the selected server and permit a new session with another MACLAN file server if you wish.

USERS: This menu option has five (5) options

The screenshot shows the 'New User' dialog box with the following details:

- Menu Bar:** File, Edit, Server, Users, Groups, Volumes, Exit, Mapping
- Name:** [Empty text field]
- Password:** [Empty text field]
- Options:** ☐ Disable Login, ☐ All Privs, ☐ Admin
- Buttons:** Revert, Save
- User's Groups:**
 - Buttons: Add, Remove, Make Primary, Remove Primary
 - Groups List: Greg, Harry, Jupiter, Ken, Kipper, Group1, Marketing, group2, group3, group4
- Primary Group:** <no group>

On the right side of the dialog box:

- Server Status:** 9:33 1990, Max: 60, Max: 99, MACLAN Admin
- Volumes:** Drive D, Local C Drive

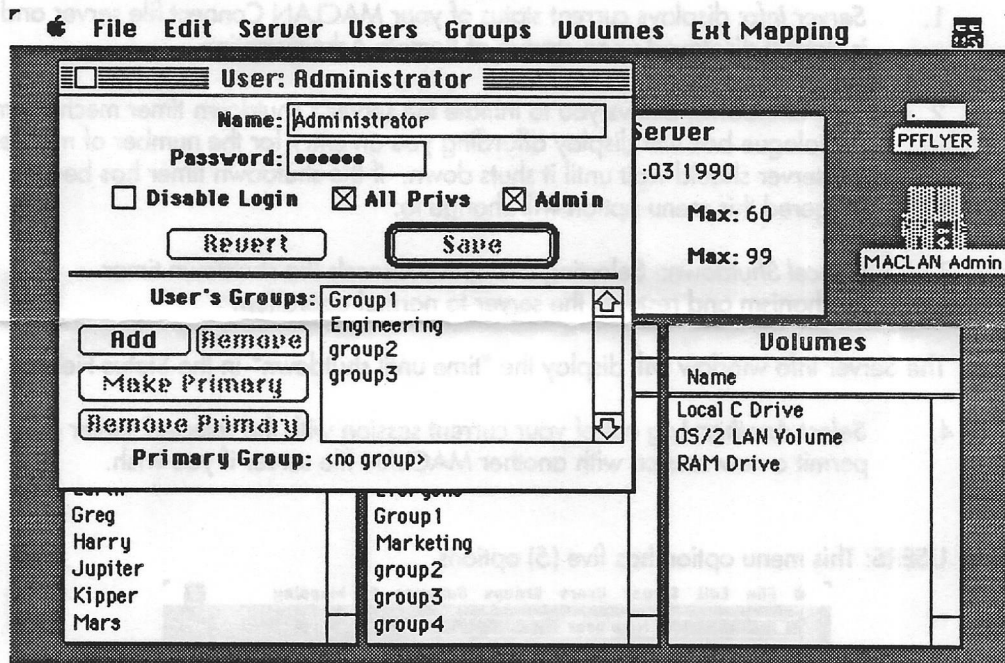
1. *Add a User:* Opens a blank dialogue box for adding a User to the MACLAN file server. Enter the user login name and password.
2. *Edit a User:* Select the User whose profile you wish to modify from the dialogue box at the bottom of the screen.

3. *Delete a User:* allows you to remove the selected user(s) from the Server.

Note: Edit and Delete items will only be enabled if one or more users have been highlighted.

4. *Add User(s) to Group(s):* Add one or more users to one or more groups in a single operation.
5. *List:* Updates the list of Users and selects the dialogue box at the bottom of the screen (if it is not already displayed). Select from the list of users everyone that you wish to add to a particular group and then select this option. A complete listing of all available groups will appear. Select the group(s) you want the pre-selected users to become members of and click on the OK button.

GROUPS: This menu option has five (5) selections:



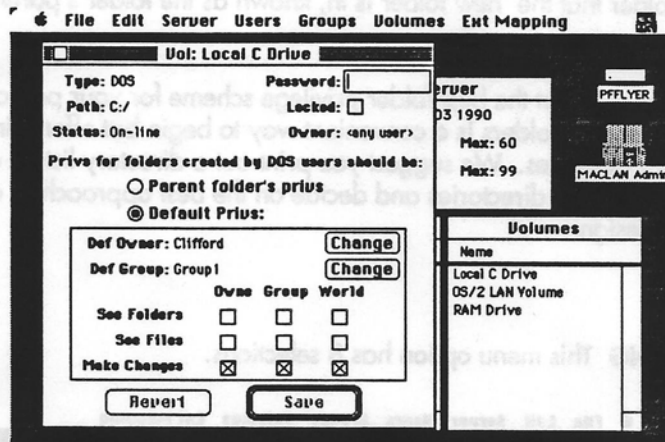
1. *Add a Group:* Opens a blank dialogue box for adding a Group to the MACLAN file server. Enter the user login name and password.
2. *Edit a Group:* Select the Group whose profile you wish to modify from the dialogue box at the bottom of the screen.
3. *Delete a Group:* allows you to remove the selected user(s) from the Server.

Note: Edit and Delete items will only be enabled if one or more users have been highlighted.

4. *Add Group(s) to User(s):* Add one or more groups to one or more Users in a single operation. Select the desired group(s) from the listing of all groups and then select this option. A complete listing of all available users will appear. Select the user(s) you want to become members of the pre-selected groups and click on the OK button.

5. *List: Groups:* Updates the list of Groups and selects the dialogue box at the bottom of the screen (if it is not already displayed).

VOLUMES: this option has one selection with four options.



All folders and files on a file server's hard disks are stored in volumes. When you log into the file server, you select the volumes you need. For each volume you access, a volume icon appears on the desktop. Whenever you access your network folders, you will be working within one or more of the network's volumes.

As previously stated a user can only edit a volume under three conditions:

1. The user is the volume's owner
2. The volume's owner is defined as <Any User>
3. The user is defined to have "All Privileges" or SuperUser

The options for Volume management through Remote Administration are:

1. *Password:* Password protect a Volume
2. *Default Privileges:* When selected you can define privileges for all new Folders/subdirectories created from DOS within the selected volume.
3. *Parent Folder's Privileges:* These are defined on the server under the MLCONFIG program and determine a Volumes owner. This utility under Remote Admin allows you to view this information.
4. *Locked (or read only) status:* Invokes DOS Read Only privileges on the entire Volume

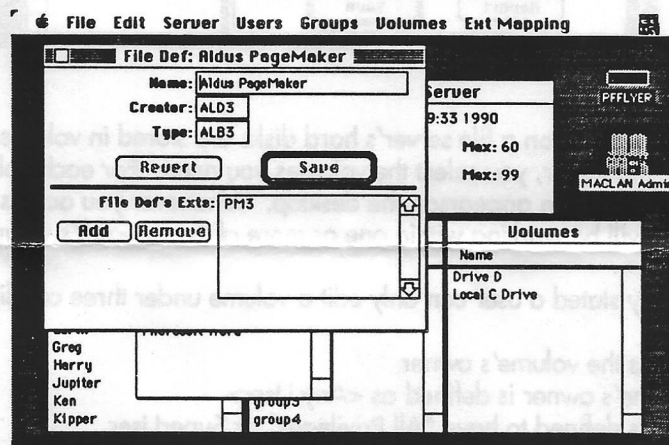
Note: Volumes are very dependent on the PC based Server machine itself; on its configuration; on any network connections it may have; interruption of service for current volume users; and several other factors. Because of these factors Remote Admin does not allow a workstation (PC or MAC) to add, or alter volumes or Volume Paths' on the PC Server. The full capability to Alter/Add Volume information is accomplished on the PC server through the MLCONFIG Utility. see pages 23-26 of the MACLAN CONNECT Manual.

A Volume can be defined to use either:

- 1) Volume Default Privileges - a defined owner, group and set of privileges.
- 2) Folder Parent Privileges - the owner, group, and privileges defined for the folder that the new folder is in, known as the folder's parent's privileges.

Note: Be sure to map out the best folder privilege scheme for your particular system needs. All rights to all folders is a convenient way to begin but offers virtually no security for your data files. We suggest you print out a directory listing on your PC Server including all sub-directories and decide on the best approach to organize your folder security design

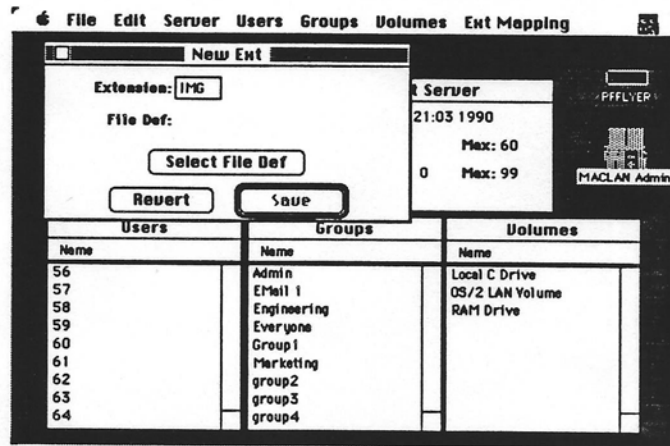
EXT MAPPING This menu option has 8 selections.



1. *List File Defs:* Updates the list of File Definitions, related File Extensions and selects the dialogue box at the bottom of the screen (if it is not already displayed).
2. *Add File Defs:* For creating a new File Definition.
3. *Edit File Def(s):* For changing the File Definition Name, Creator, Type and Extension informationn.
4. *Remove File Def(s):* Removal of existing Definitions
5. *List File Extensions:* Updates the list of Extensions, related File Definitions and selects the dialogue box at the bottom of the screen (if it is not already displayed).
6. *Add File Extensions:* For adding a new extension to an existing File Definition
7. *Edit File Extensions(s):* For changing the Name of an extension as it is related to it's selected File Definition

8. Remove File Extensions(s): Removal of existing Extensions

Updates the list of Extensions, related File Definitions and selects the dialogue box at the bottom of the screen (if it is not already displayed).



8 Remove File Extensions: Removal of existing Extensions
 Updates the list of Extensions, related File Definitions and selects the dialog box at the bottom of the screen if it is not already displayed.

File Extension Manager

File Extension:

File Extension	File Definition	File Type
*.txt	Text File	Text
*.doc	Microsoft Word Document	Text
*.xls	Microsoft Excel Spreadsheet	Text
*.ppt	Microsoft PowerPoint Presentation	Text
*.htm	HTML Document	Text
*.jpg	JPEG Image	Image
*.png	PNG Image	Image
*.gif	GIF Image	Image
*.bmp	BMP Image	Image
*.avi	AVI Video	Video
*.mpg	MPEG Video	Video
*.mpeg	MPEG Video	Video
*.mp3	MPEG Audio	Audio
*.wav	WAV Audio	Audio
*.mp4	MPEG Video	Video
*.mov	QuickTime Video	Video
*.m4v	MPEG Video	Video
*.m4a	MPEG Audio	Audio
*.m4p	MPEG Audio	Audio
*.m4b	MPEG Audio	Audio
*.m4r	MPEG Audio	Audio
*.m4v	MPEG Video	Video
*.m4p	MPEG Audio	Audio
*.m4b	MPEG Audio	Audio
*.m4r	MPEG Audio	Audio

File Extension:

MACLAN Connect Warranty Registration Card

Please fill out this card and return it to MIRAMAR SYSTEMS as soon as possible so you can receive our Technical Tips publication and become a registered MACLAN Connect user.

Name	Purchase Date
Title	Purchased from
Company Name	Where did you hear about MACLAN Connect
Address	
City	Machine type
State	LocalTalk Card
Zip	Apple <input type="checkbox"/> TOPS <input type="checkbox"/> Hercules <input type="checkbox"/> Other: <input type="checkbox"/>
Country	Network (if any) 3COM <input type="checkbox"/> Novell <input type="checkbox"/> Banyan <input type="checkbox"/> Easynet <input type="checkbox"/> Other: <input type="checkbox"/>
Telephone	Network Card
	MACLAN Connect Serial Number

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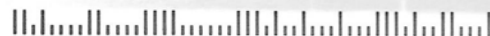
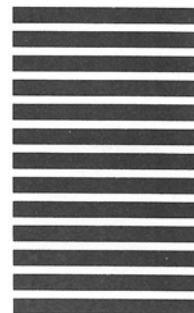
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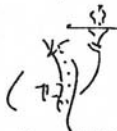
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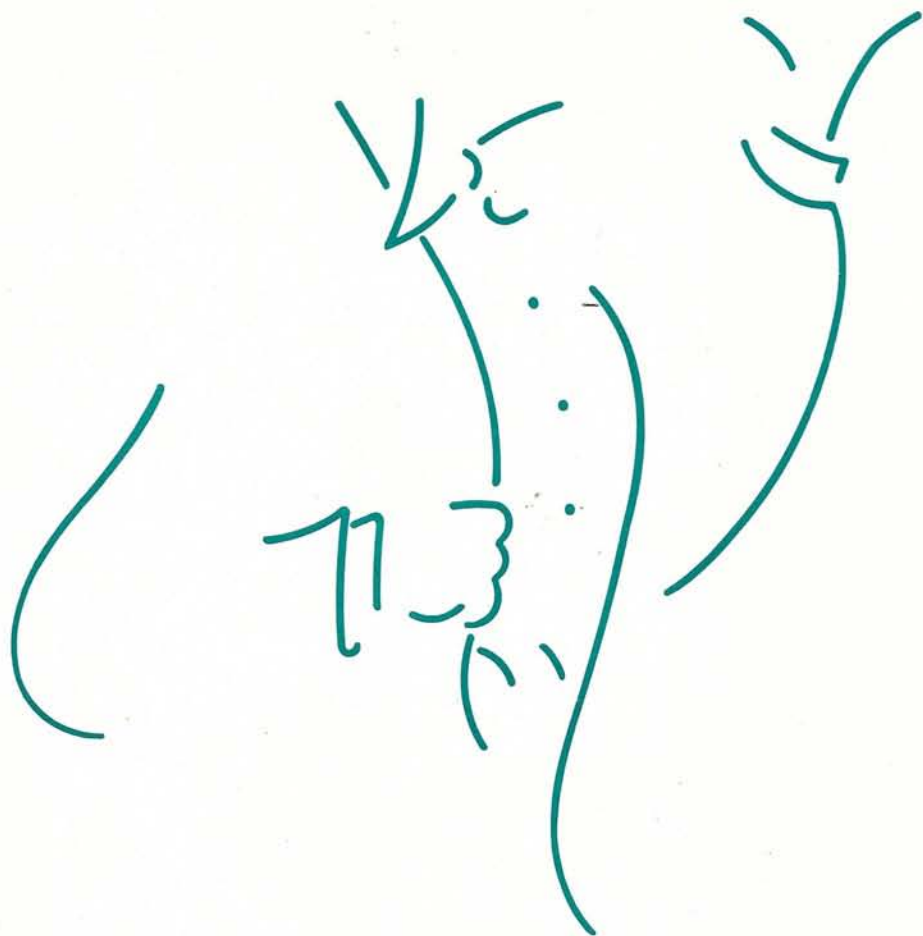
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EMI

MAC LAN

C O N N E C T



The Complete Macintosh
Connection to the PC World ...

MLA CITA Connect

MACLAN

CONNECT

MACLAN Connect enables any PC or compatible to function as an AppleShare compatible Server. All hard disks, LAN volumes or other storage devices are available to AppleShare connected Macintosh workstations.

Apple's AppleTalk Filing Protocol (AFP) version 1.1 specifications are fully implemented through MACLAN Connect. Using the AFP standard ensures compatibility with all of the applications and products developed by Apple and Third Party Developers now and in the future. Applications written to be compatible with AppleTalk are compatible with MACLAN Connect.

EXAMPLE Configurations -

In **Diagram 1** MACLAN Connect is configured as a Standalone AppleShare File Server for a network of Macintosh SE's, MAC II's, and AppleShare PC workstations. Utilizing an IBM or compatible ma-

chine as a File Server is more cost effective than using an Apple Macintosh computer to serve this purpose.

Residing inside of the designated PC based file server is one of the AppleTalk interface boards from the **Hardware Requirements** list. The Server is then connected into the AppleShare network using standard LocalTalk connectors and cables. AppleShare software is required for all Macintosh workstations and is included in System Version 6.0 or later.

In **Diagram 2** MACLAN Connect is configured as a Bridge between the AppleTalk/Macintosh environment and a Network Operating System (NetOs). MACLAN Connect supports several networks including Banyan's *Vines* and Novell's *NetWare*.

Several PC's are connected to the File Server via Ethernet topology. To create the LAN Bridge, a PC acting as a Network workstation runs

Macan Connect software. LAN Volumes (disks) are made available to the AppleTalk network. This may include local or remotely connected volumes (LAN,WAN); Mini or Mainframe volumes connected via emulation boards; RAM disks; removable hard storage; and even Floppy drives.

Hardware System Requirements:

PC/XT/AT/386

512K RAM

360K Floppy Drive

AppleTalk Interface Card with Driver
Hard Disk - Standalone server only

Software System Requirements:

PC/MS-DOS Version 3.3 or later

LAN Gateway -server must be configured as a LAN workstation with all necessary software and hardware. LAN specific

MACLAN supported and tested LocalTalk cards:

AppleShare PC board

Tops Board

Tops FlashTalk Card

Tangent PC MacBridge

Diagram 1

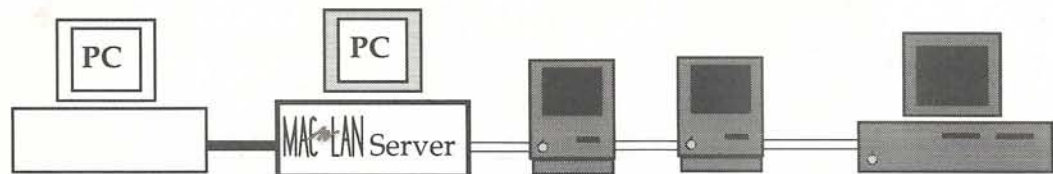


Diagram 2

