



Administrator's Guide

Volume II

3Plus[®]

3Com[®]

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3+ Administrator's Guide

Volume II

**A member of the 3+ family of products.
For use with DOS 3.1, DOS 3.2, or DOS 3.3.**

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Preface

This guide is designed for use by a network administrator in the day-to-day operation of the network.

If you need to install the software on a 3Server386, check the *3+ Installation and Setup Guide*. To tune the software to suit your particular needs on a 3Server386, refer to the *3+ Network Tuning Guide*.

If you have any other server, consult the *3+ Installation and Configuration Guide* for information on installing and tuning the software.

Chapter 7: Command Reference

This chapter is a complete reference to all administrator and server-user commands, including those user commands that provide additional capabilities to server-users and administrators.

Command descriptions are organized by service in the following order:

- ▶ 3+Backup (3B)
- ▶ 3+Share File service (3F)
- ▶ 3+Mail service (3M)
- ▶ 3+Name service (3N)
- ▶ 3+Share Print service (3P)

See Chapter 3 of this guide for a description of the command syntax notation used in this chapter.

See Chapter 4 of this guide for in-depth examples of using the most common administrator and server-user commands. For complete information on other user commands, see the *3+Share User Guide* and the *3+Mail User Guide*.

7

Command Reference

7-2

3B AUTO

Automatic backup enabled or disabled. Not available for off-line mode.

Format

3B AUTO [/ON|/OFF]

Required Capability

Server-user or network administrator

Parameters

- | | |
|------|--|
| ON | Enables the automatic backup scheduling. |
| OFF | Disables the automatic backup scheduling. |
| none | Displays on the screen the current status of the automatic flag. |

Remarks

When the automatic backup is enabled the server regularly checks the AUTOTIMS file you created and takes the actions you specified in that file.

Even if you have created an AUTOTIMS file and want to do automatic backups, you may want to disable automatic backup to change the schedule in the AUTOTIMS file or to avoid a problem situation such as a holiday when no one will be available to change tapes.

When you use the 3B AUTO command with no parameter, the current status of the automatic backup is displayed on the screen.

Examples

Example 1: Turning on the automatic backup.

```
3B AUTO /ON←┐
```

Example 2: Checking the status of the AUTO parameter.

```
3B AUTO←┐
```

3B BACKUP

Backs up a source server's data onto tape.

Format

3B BACKUP [\\server][p:[-q:]][/I]/[A]



NOTE: For off-line mode, enter 3BDOS followed by the rest of the command, for example, 3BDOS BACKUP.

Required Capability

Server-user or network administrator

Parameters

- | | |
|---------------|---|
| <i>server</i> | The name of the server that contains the files you want to back up. If you omit this parameter, BACKUP assumes that you are backing up files on the server on which you are logged in. You can also set this parameter using the SERVER command. Not available for off-line mode. |
| <i>p</i> | The first partition on the server which you want backed up. If you do not specify any partitions, the entire server (all partitions) are backed up. A leading backslash is necessary only when you also specify the server parameter. |
| <i>q</i> | The last partition on the server which you want backed up. The hyphen (-) must separate a range of partitions. |
| <i>I</i> | An incremental backup for backing up only those files that have been modified or added since the last backup. If you do not use this parameter, 3+Backup backs up all files. Not available for off-line mode. |

- A Appends the current backup following the last record on the tape. If you omit this parameter, 3+Backup erases any records on the tape and begins writing at the beginning. Not available for off-line mode.

Remarks

The BACKUP command allows you to do a full or incremental backup of server files onto tape. All of the filenames which are being backed up are put into a log file while the backup is being performed.

Examples

Example 1: Starting a full on-line backup of an entire server.

```
3B BACKUP \\SERVER1:SPD:3COM<—
```

Example 2: Starting an incremental on-line backup of partition f.

```
3B BACKUP \\SERVER1:SPD:3COM\F: /I<—
```

Example 3: Starting a full on-line backup of partitions f, g, and h, and appending this to the end of the tape.

```
3B BACKUP \\SERVER1:SPD:3COM\F:-H: /A<—
```

Example 4: Starting an incremental on-line backup of the default server and appending it to the end of the tape.

```
3B BACKUP /I /A<—
```

Example 5: Starting a full off-line backup of the entire server.

```
3BDOS BACKUP<—
```

3B CANCEL

Cancels a BACKUP, RESTORE, or DIR /F operation currently in progress. This command is only available in on-line mode.

Format

3B CANCEL



NOTE: For off-line mode press [Ctr]+[Break].

Required Capability

Server-user or network administrator

Parameters

None

Remarks


After you enter the CANCEL command, 3+Backup displays the message: "Are you sure (No)?" To cancel the operation, type Y; to continue with the operation, press Return.

When you enter the CANCEL command during a backup or restore operation, the current operation is terminated only after the backup or restore of the current file is completed. However, if you enter another CANCEL command before the backup or restore of the file is completed, then the backup or restore is halted immediately without regard to the state of the file.

Example

Cancelling the current operation.

3B CANCEL 

Are you sure (No)? **Y** 

3B DIR

Displays a summary of the first block of the tape or creates a directory of the full contents of the backup tape.

Format

3B DIR [/F]



NOTE: For off-line mode, enter 3BDOS followed by the rest of the command, for example, 3BDOS DIR.

Required Capability

Server-user or network administrator

Parameters

- F** Creates a full directory listing of the tape currently in the tape drive, including all filenames on the tape organized by directory.
- none** Without a parameter, 3+Backup prepares a brief summary listing the server, date, and starting directory on the tape and displays it on the screen.

Remarks

The DIR command creates two kinds of directories of backup tapes as defined by the presence or absence of the /F parameter.

The DIR command without the /F parameter creates an abbreviated directory that shows: backup class (usually "System level"), server name, backup date, full or incremental, and tape sequence number of the first backup on the tape.

Using the /F parameter creates a full directory that includes: all the above information plus information on the complete path of the partitions and all the filenames on the entire tape. A full directory is written to the tape log.

Example

Example 1: Displaying a summary of the contents of the tape.

```
3B DIR ◀
```

Wait...

Tape contents:	\\SERVER1:SPD:3COM
Backup date:	30-Jul-87, 16:01
Backup type:	Full
Tape sequence number:	22
Tape access:	System level

Example 2: Displaying a full directory listing of the tape to the tape log file in on-line mode.

```
3B DIR /F ◀
```

Example 3: Displaying a full directory listing of the tape to the tape log file in off-line mode.

```
3BDOS DIR /F ◀
```

3B ERASE

Erases the tape currently in the drive.

Format

3B ERASE



NOTE: For off-line mode, enter 3BDOS followed by the rest of the command, for example, 3BDOS ERASE.

Required Capability

Server-user or network administrator

Parameters

None

Remarks

You will want to use the 3B ERASE command to prepare a new tape for backup. Note that 3B BACKUP automatically erases the tape at the beginning of a backup which does not append to the end of the tape. 3Com recommends that you **erase** a new tape twice so that the tape tension is correct before you use it.

Example

Erasing a new tape to prepare it for use.

```
3B ERASE ◀—  
Wait....
```

```
WARNING: THIS TAPE HAS DATA. Continue  
to erase (No)? Y ◀—
```

3B HELP

Displays information about the 3B commands.

Format

3B HELP

3B ?

3B HELP *commandname*



NOTE: For off-line mode, enter 3BDOS followed by the rest of the command, for example, 3BDOS HELP.

Required Capability

Server-user or network administrator

Parameters

commandname

The 3B command about which you want more information.

Remarks

For detailed information about a command use the command name as a parameter (see example 3 below).

Examples


Example 1: Displaying a list of 3B commands in on-line mode with a brief explanation of each.

3B HELP 

3B Commands:

Help	Display helpful information.
Backup	Back up data to tape.
Restore	Restore data from tape.
Dir	Show contents of a tape.
Log	Show contents of an operation log.
Erase	Erase a tape.
Cancel	Cancel an operation in progress.
Stat	Show status of a 3+Backup server.
Server	Choose a 3+Backup server (N/A to server-user.)

Example 2: Displaying a list of available 3B commands in on-line mode.

3B ? 

Enter one of the following commands:

Help
Backup
Restore
Dir
Log
Server
Cancel
Status
Stat
Erase
Wait
Auto

Example 3: Displaying information about a specific 3B command.

```
3B HELP BACKUP ←
```

```
3B BACKUP Command:
```

The 3B BACKUP command is used to back up files from 3+Share servers to tape. The user can back up all files on a server or servers to tape. The user can back up all files on a server or just those files which have been modified or added since the last time they were backed up. He can also choose to back up a single partition or a range of partitions. Use 3B BACKUP? to be prompted.

Example 4: Displaying information about a command parameter.

```
3B SERVER←
```

```
Which server? HELP←
```

```
Enter a server name.
```

```
Which server?
```

3B RESTORE

Restores files from the backup tape currently in the tape drive.

Format

```
3B RESTORE [[\source][\p:[path[file.ext]]][\dest][\x:[path]]\
[/DATE=dd-mmm-yy[,hh:mm]]
```

or

```
3B RESTORE
```

```
[\source][\p:-q:][\dest][\x:-y:][/DATE=dd-mmm-yy[,hh:mm]]
```



NOTE: For off-line mode, enter 3BDOS followed by the rest of the command, for example, 3BDOS RESTORE.

Required Capability

Server-user or network administrator

Parameters

source The name of the server from which the files you want to restore were backed up. If you omit this parameter, 3B RESTORE assumes that you want to restore files from the server on which you are logged in or which you set with the SERVER command.

dest The name of the server to which the files are to be restored. If you omit this parameter, 3B RESTORE assumes that you want to restore files to the same server as the source parameter. Not available for off-line mode. For off-line restores, the backup server is always the destination server.

p: The partition to be restored.

p:-q: The range of partitions to be restored.

<i>path</i>	One path identifying which directory to restore from or restore to. Do not use this parameter when you specify a partition range (parameter p:-q:).
<i>file.ext</i>	The name of a file or group of files to be restored. You can use DOS wildcards (* and ?) to specify a group of files. Do not use this parameter when you specify a partition range (parameter p:-q:).

DATE=dd-mmm-yy, hh:mm

The date of the most recent backup copy of the files you want to restore. Enter the day number, the first three characters of the month name, and the year number separated by hyphens. To enter the hour and minutes, type a comma after the year, then type the hour and minutes separated by a colon. You can find the date and time information in the log files of the BACKUP or DIR /F operations.

Remarks

You may want to specify only one file path from which to restore the files. However, if you want to restore full partitions, you can specify either one or a range of partitions. In this case, you must specify the same number of partitions as in the source. If the partition numbers do not match, you will receive an error message.

To restore files, the file system on the destination server may need to be rebuilt. 3+Backup rebuilds the file system automatically if it is necessary.

The date is necessary if more than one copy of the file is present on the tape you are using for the restore and you want an earlier version of the file(s). The time is necessary only if two backups were made on the same day and contain different information.

To determine whether your files were restored successfully, review the restore log.

Examples

Example 1: Starting a full restore of the default server.

```
3B DOS RESTORE <—
```

Example 2: Starting a full restore of a specific server.

```
3B RESTORE \\ARIES:SPD:3Com <—
```

Example 3: Restoring a single partition to the same partition in off-line mode.

```
3B DOS RESTORE C: <—
```

or

```
3B DOS RESTORE \\ARIES:SPD:3Com\C: <—
```

Example 4: Restoring a range of partitions to their original locations.

```
3B RESTORE C:-D: <—
```

or

```
3B RESTORE \\ARIES:SPD:3Com\C:-D: <—
```


Example 5: Restoring a single partition to a different partition.

```
3B RESTORE C: D: ◀┐
```

or

```
3B RESTORE \\ARIES:SPD:3Com\C: D: ◀┐
```

Example 6: Restoring a range of partitions to a different range of partitions.

```
3B RESTORE C:-D: E:-F: ◀┐
```

or

```
3B RESTORE \\ARIES:SPD:3Com\C:-D: E:-F: ◀┐
```

Example 7: Restoring files to a particular path.

```
3B RESTORE C:\rickc\ ◀┐
```

or

```
3B RESTORE \\ARIES:SPD:3Com\C:\rickc\ ◀┐
```

Example 8: Restoring a file or files.

```
3B RESTORE C:\rickc\plans.1987 ◀┐
```

or

```
3B RESTORE \\ARIES:SPD:3Com\C:\rickc\  
plans.1987 ◀┐
```

Example 9: Restoring directories from one partition to a different partition.

```
3B RESTORE C:\rickc\ D: ◀┐
```

or

```
3B RESTORE \\ARIES:SPD:3Com\C:\rickc D: ◀┐
```

Example 10: Restoring a file or group of files from one partition to another.

```
3B RESTORE C:\rickc\plans.1987 D: ␣␣
```

or

```
3B RESTORE \\ARIES:SPD:3Com\C:\rickc\plans.1987 D: ␣␣
```

Example 11: Restoring directories and their structure.

```
3B RESTORE C:\rickc\ D:\rickplans\ ␣␣
```

or

```
3B RESTORE \\ARIES:SPD:3Com\C:\rickc\ D:\rickplans\ ␣␣
```

Example 12: Restoring a file or group of files from one path to another path.

```
3B RESTORE C:\rickc\plans\plan.1987 D:\rickplans\ ␣␣
```

or

```
3B RESTORE \\ARIES:SPD:3Com\C:\rickc\plans\plan.1987 D:\rickplans\ ␣␣
```

Example 13: Restoring directories and their structure to a different directory structure.

```
3B RESTORE C:\rickc\ \rickplans\ ␣␣
```

or

```
3B RESTORE \\ARIES:SPD:3Com\C:\rickc\ \rickplans\ ␣␣
```

Example 14: Restoring a file or group of files from one directory structure to a different directory structure.

```
3B RESTORE C:\rickc\plans.1987 \rickplans\ ␣␣
```

or

```
3B RESTORE \\ARIES:SPD:3Com\C:\rickc\plans.1987\rickplans\ ␣␣
```

Example 15: Restoring files from one server onto another one.

```
3B RESTORE \\OLDSERVER:PUBS\C:\PUBS\*.* \\NEWSERVER:PUBS\E:\NEWPUBS\ ↵
```

3B SERVER

Changes the backup server and the default source servers for all future operations. Not available in off-line mode.

Format

3B SERVER *\\servername:domain:organization*

Required Capability

Network administrator only

Parameters

servername:domain:organization

The name of the server with a tape backup unit attached that you are going to use for all future operations. Use the full three-part name if necessary.

Remarks

The 3B SERVER command is available only to the network administrator. It changes your default server until you leave 3+Backup or enter the 3B SERVER command again.

Use this command if your default server (home server) does not have a tape backup unit attached to it, or if you want to use a different one.

This command also modifies the default source server for all future backups and restores.

Example

Backing up partition D on server named \\ARIES:SPD:3Com.

```
C>3B ◀
```

```
3+Backup 1.3
```

```
3B>SERVER \\ARIES:SPD:3COM ◀
```

```
3B>BACKUP D: ◀
```

or

```
C:\> 3B SERVER \\ARIES:SPD:3COM; BACKUP D: ◀
```

In this example, if you do not use the 3B SERVER command before entering the 3B BACKUP command, you will back up partition D on your home server using your home server's tape backup unit.

3BSTATUS

Determines the status of the backup server. In off-line mode the status is always displayed, so it is not necessary to use this command.

Format

3B STAT[US]

Required Capability

Server-user or network administrator

Parameters

None

Remarks

The 3B STATUS command gives you the following information about the backup server:

- ▶ Whether it is currently in use
- ▶ What operation is being performed
- ▶ How many megabytes of information have been processed so far during the operation
- ▶ The status of the AUTO flag
- ▶ Who is performing the operation
- ▶ The number of files restored, if a restore is in progress.

You can use the 3B STATUS command at any time to find out whether the backup server is busy or available to you. (See also the 3B WAIT command).

Example

Viewing the status of the backup server.

3B STAT ←

```
Operation in progress:  Backup
Backing up \\server1:  SPD:3COM

Time operation started: 31-Jul-87, 3:04
Operation status:      Need operator
                        attention, see LCD

Operator:               Auto
Amount transferred:    180 MB
AUTO status:           ON
```

3B WAIT

Freezes the netstation until the current operation is completed or you cancel the command. When the operation is done, the netstation beeps. Not available in off-line mode.

Format

3B WAIT

Required Capability

Server-user or network administrator

Parameters

None

Remarks

You use this command when you are at the netstation and need to be informed when the current operation is complete. This is also handy in batch files when you want to perform sequential operations. When you enter the command, the following messages appear on the screen:

```
Operation in progress...
```

```
Waiting for completion. Press [Esc] to cancel.
```

Press [Esc] at any time to cancel the WAIT. When the operation is complete, the netstation beeps and the following message is displayed:

```
Operation completed
```


Example

Freezing the netstation while the operation is in progress.

3B WAIT ←

Operation in progress: Dir/F

Waiting for completion. Press [ESC] to cancel

Operation completed.

3F MOD

Modifies the password and access rights of a first-level directory's sharename.

Format

3F MOD[IFY] *sharename* | *path* [/PASS=*pass*] [/access]

Required Capability

Server-user

Parameter

sharename

The sharename you want to modify. This is the name assigned to a directory when the directory is shared with the 3F SHARE command. If the directory has multiple sharenames, you must modify each sharename individually.

path

The path you want to modify. If the directory was shared and not assigned a sharename, you must specify the directory by its path. The path is specified beginning with the root directory of the disk drive on which the directory resides. The path specification cannot include a drive identifier or a leading backslash.

pass

The new password you are assigning to the sharename. If you include the **/PASS=** keyword and omit the pass parameter, the current password is deleted. If you omit **/PASS=pass** altogether, the current password does not change. A password is eight characters or fewer. The allowed characters are: letters (A through Z and a through z), digits (0 through 9), the special characters **\$&#@!%'"()-{ }_**, and the international characters supported by the IBM PC.

access

The new access rights you are assigning to the sharename. The access rights must be one of the following: **PUB, R, RW, RWC, WC, W, or SHAR**. If you omit **/access**, the access rights for the sharename do not change. For a discussion of access rights, see the **3F SHARE** command in this chapter.

Remarks

Although the **3F MOD** command is both a user and server-user command, these remarks concern capabilities reserved for server-users. For a complete discussion of the capabilities available to all users, see the *3+Share User Guide*.

The **3F MOD** command modifies the password and access rights associated with a first-level directory's sharename. It shares the directory and assigns it a sharename. If the directory was shared but not assigned a sharename, you must specify the directory's path instead of a sharename. For information on using the **3F SHARE** command with first-level directories, see the **3F SHARE** command in this chapter.

You can only modify the sharenames of first-level directories residing on the server for which you are logged in as the server-user. To modify the sharename of a first-level directory on another server, you must first log in as that server's server-user.

You can use the 3F MOD command to modify the password and access rights associated with the sharename but not the sharename itself. To change a directory's sharename, use the 3F UNSHARE command to delete the sharename and then use the 3F SHARE command to assign a new sharename.

You can assign the same directory several different sharenames. Each sharename can have a different password and access rights. For more information, see the 3F SHARE command in this chapter.

You can modify a sharename even while users are linked to the directory through that sharename. Changing the password and access rights does not affect users currently linked through the sharename, only new links. You can, for example, prevent users from establishing new links through a sharename by giving the sharename a new password. If a directory has several sharenames, the modifications only affect the specified sharename. Linking to the directory through other sharenames is unaffected.

Examples

Example 1: Changing the password of a sharename.

```
3F MOD apps /PASS=newpass ↵  
\\FINANCE:HQ:3COM\APPS modified.
```

Example 2: Deleting the password for a sharename.

```
3F MOD apps /PASS= ↵  
\\FINANCE:HQ:3COM\APPS modified.
```

Example 3: Changing the password and access rights of a sharename.

```
3F MOD apps /PASS=newpass /ACCESS=rwc ↵  
\\FINANCE:HQ:3COM\APPS modified.
```

Example 4: Changing access rights using prompted mode.

```
3F MODIFY ? ↵  
Name? share1  
New Password (****)? ↵  
New Access (/RWC)? /pub ↵  
\\FINANCE:HQ:3COM\SHARE1 modified.
```

3F SHARE

Creates a first-level directory and shares it.

Format

3F SHARE [*sharename*=]*path*[/PASS=*pass*] [/access]

Required Capability

Server-user

Parameters

sharename

A name that identifies the directory on the network. All users may link to the directory through its sharename(s). A single directory can have multiple sharenames, each with different passwords and access rights. If you do not assign a sharename, users must identify the directory by its path.

A sharename is eight characters or fewer. The allowed characters are: letters (A through Z and a through z), digits (0 through 9), the special characters \$&#@!%\"()-{}_ , and the international characters supported by the IBM PC. Each sharename for directories on the same server must be unique.

path

The path to the directory you want to share. The path must begin with the drive identifier of the drive on which the directory resides. If you do not assign the directory a sharename, users must specify its path (without the leading drive identifier) when they want to link to it.

<i>pass</i>	The password you are assigning to a particular sharename. If assigned, all users, except the server-user, must supply the password to link to the directory through that sharename. If you do not assign the password, any user can link to the directory through that sharename. A password is eight characters or fewer. The allowed characters are: letters (A through Z and a through z), digits (0 through 9), the special characters \$&#@!%()-{}_, and the international characters supported by the IBM PC.
<i>access</i>	The type of operations users can perform on the contents of the directory. The access rights must be one of the following: PUB, R, W, RW, RWC, WC, and SHAR. If you do not assign access rights, the 3+Share File service assigns /RWC by default. A server-user cannot assign PRIV (private) access rights to a directory. See the following remarks for more information on access rights.

Remarks

Although the 3F SHARE command is both a user and server-user command, these remarks concern the capabilities reserved for server-users. For a complete discussion of the capabilities available to all users, see the *3+Share User Guide*.

The 3F SHARE command shares a first-level directory, allowing network users to link to it. If the directory you specify does not exist, the 3F SHARE command creates it.

Typically, administrators use the 3F SHARE command to create and share first-level directories that contain files used by many network users. One such directory is an APPS directory containing program files.

Sharenames

Using the 3F SHARE command, you can assign a sharename to the specified directory. Once assigned, the sharename then identifies that directory on the network. You can use the 3F SHARE command several times on the same directory, assigning a different sharename each time. Each sharename can have a different password and access rights.

If you share a directory and do not assign a sharename, all users must specify the directory by its path. To link to a directory in this case, users must specify the path in place of a sharename in the 3F LINK command. In general, assigning a sharename is preferable, but some applications may require directories specified by paths. For such applications, you can share a directory with the 3F SHARE command without assigning a sharename.

If you do not assign a sharename, you can use the 3F SHARE command on a directory only once. Before using the 3F SHARE command on the same directory a second time, you must assign it a sharename.

The number of sharenames you can assign to a directory is limited only by the number of shared directories and shared printers the 3+Share File and Print services can support. Each different sharename counts as one shared directory. For information on changing the number if you have a 3Server386, see the *3+ Network Tuning Guide*. Otherwise, refer to the *3+ Installation and Configuration Guide*.

Passwords

If you share a directory and assign a password to that sharename, all users must supply the password before linking to the directory with that sharename. The server-user, however, need not supply the password before linking to the directory.

If you share a directory without a password, no password is required to link to the directory with that sharename. If you want to share a directory with all users, do not assign a password to the directory's sharename.

Access Rights

Server-users can assign the following access rights:

- ▶ **PUB**, or public, allows users to read but not alter the contents of the directory and its subdirectories.
- ▶ **R**, or read, allows users to read but not alter the contents of the directory and its subdirectories. **R** is the same as **PUB**.
- ▶ **W**, or write, allows users to write to files in the directory and its subdirectories. Users cannot read the files.
- ▶ **RW**, or read and write, allows users to read from and write to files in the directory and its subdirectories. Users cannot create or delete files and subdirectories.
- ▶ **RWC**, or read, write, and create, allows users to read from, write to, create, and delete files and subdirectories in the directory and its subdirectories.
- ▶ **WC**, or write and create, allows users to write to, create, and delete files and subdirectories in the directory and its subdirectories. Users cannot read files in the directory and its subdirectories.

- ▶ SHAR, or share, allows the user all the access rights of RWC and the right to share the directory and its subdirectories.

Most first-level directories contain shared program and data files. For directories containing shared programs, PUB or R are usually the appropriate access rights. For directories containing shared data files, RW or RWC are usually the appropriate access rights. If you are using a multiuser network application, refer to that application's documentation for more information on the access rights you should assign to the directories for its data files.

If you do not assign access rights, the 3+Share File service assigns RWC access rights, the default for server-users. The default for users is PRIV (private) access rights.

Examples

Example 1: Making a directory of public programs available for sharing, and assigning the directory APPSV1 the sharename APPS.

```
3F SHARE apps=c:\apps /PUB ◀  
\\FINANCE:HQ:3COM\APPS shared.
```

Example 2: Making the same directory as above available for sharing with no sharename, RWC access rights, and a password.

```
3F SHARE c:\apps /PASS=qyx31 /RWC ◀  
\\FINANCE:HQ:3COM\C:\APPSV shared.
```

Example 3: Making a directory available for sharing with public access rights, using the prompted mode.

```
3F SHARE ? ◀  
Sharename? wordstar ◀  
Path? c:\apps\wordstar ◀  
Password? ◀  
Access (/RWC)? /pub ◀  
\\FINANCE:HQ:3COM\WORDSTAR shared.
```

3F SHUTDOWN

Shuts down the 3+Share File and Print services on the specified server.

Format

3F SHUTDOWN [\\server] [/NEW] [/NP]

Required Capability

Administrator

Parameters

<i>server</i>	The three-part name of the server whose 3+Share File and Print services you want to shut down. If you omit this parameter, the default is your File server.
<i>NEW</i>	Disables new links to shared directories and printers on the specified (or default) server. Users with existing links to shared directories and printers on the specified server can continue to establish new links. NEW does not shut down the services or break existing links.
<i>NP</i>	Suppresses the request for verification.

Remarks

The 3F SHUTDOWN command stops the 3+Share File and Print services on the server. 3F SHUTDOWN is the same as the 3P SHUTDOWN command described later in this chapter. The 3F (or 3P) SHUTDOWN command is the only correct way to stop the 3+Share File and Print services on a server. Use the 3F SHUTDOWN command whenever you need to stop network operations.

The 3+Name service should always be the last service to be shut down. Shut down the network one server at a time, ending with the 3+Name service server. To start network operations again, you must restart each server. Always restart the 3+Name service server first, then restart any remaining servers, in any order.

You can use the NEW option to prevent users who have no existing links from linking to shared directories and printers on the server. Users with existing links can still establish new links to shared directories and printers on the server. Using the 3F SHUTDOWN command with this option does not shut down the 3+Share File and Print services; the command just prevents new users from establishing new links. Typically, this form of the 3F SHUTDOWN command is used before a full network shutdown, preventing new links while giving users on the network time to finish before the network shuts down altogether.

Examples

Example 1: Shutting down the 3+Share File and Print services on a server.

```
3F SHUTDOWN \\Finance ←  
Shutdown File and Print Service on  
\\Server1:HQ:3Com [Y/N]? Y ←  
\\FINANCE:HQ:3COM shutdown.
```

Example 2: Preventing new links to a server, with no verification.

```
3F SHUTDOWN \\Finance /NEW /NP ←  
NEW LINKS TO \\FINANCE:HQ:3COM DISABLED.
```

Example 3: Preventing new links to a server, using the prompted mode.

```
3F SHUTDOWN? 
ServerName? finance 
Disallow New Links [Y/N]? y 
Shutdown File and Print Service on
\\Finance:HQ:3Com [Y/N]? n 
NEW LINKS TO \\FINANCE:HQ:3COM DISABLED
```

3F UNLINK

Unlinks a user from shared directories and printers on the specified server.

Format

3F UNLINK *user* [*server*] /NP]

Required Capability

Administrator

Parameters

<i>user</i>	The three-part name of the user you want to unlink.
<i>server</i>	The three-part name of the server from which you want to unlink the user. If you do not specify a server, the 3+Share File service unlinks the user from your default File server.
NP	Suppresses the request for verification.

Remarks

Although the 3F UNLINK command is both a user and an administrator command, these remarks concern the capabilities reserved for administrators. For a complete discussion of the capabilities available to all users, see the *3+Share User Guide*.

The 3F UNLINK command breaks all links between the specified user and shared directories and printers on the specified server. If you do not specify the server, the command affects your default File server.

The 3F UNLINK command breaks the links at the server. The user software, and consequently the user, is not informed of the break. After the forced unlink, any attempts by the user software to use the broken links will produce NET804 and NET805 errors. Before continuing with network operations, the user's netstation should be restarted.

If the user is logged in more than once, all links by that user are broken, even if the links are from separate netstations.

Examples

Example 1: Unlinking a user from your default file server.

```
3F UNLINK \\fred jones ◀
CAUTION: Unlinks both 3F and 3P links!
Unlink \\Fred Jones:HQ:3Com from
\\Finance:HQ:3Com [Y/N]? y ◀
\\Fred Jones:HQ:3Com unlinked from
\\Finance:HQ:3Com.
```

Example 2: Unlinking a user from a specified file server, without verification.

```
3F UNLINK \\fred jones \\finance /NP ◀
CAUTION: Unlinks both 3F and 3P links!
\\fred jones:HQ:3Com unlinked from
\\finance:HQ:3Com.
```


3F UNSHARE

Deletes a sharename.

Format

3F UNSHARE *sharename* | *path*

Required Capability

Server-user

Parameters

sharename

The sharename you are deleting. This is the name assigned to the directory when it was shared with the 3F SHARE command. If the directory has several sharenames, you must delete each individually.

path

The name of the path to the specified directory. If this particular directory was shared and not assigned a sharename, you must identify the directory by its path. The path name begins with the root directory of the disk drive on which this particular directory resides. The path name cannot include a drive identifier or a leading backslash.

Remarks

Although the 3F UNSHARE command is both a user and server-user command, these remarks concern the capabilities reserved for server-users. For a complete discussion of the capabilities available to all users, see the *3+Share User Guide*.

The 3F UNSHARE command deletes the specified sharename. If the deleted sharename was the directory's only sharename, the directory is no longer available for use on the network. If the directory had more than one sharename, the directory can still

be linked to through its other sharenames. For more information on multiple sharenames, see the 3F SHARE command earlier in this chapter.

You can only use the 3F UNSHARE command with a sharename whose directory resides on the server for which you are logged in as the server-user. You cannot use the 3F UNSHARE command on a sharename that is in use. If a user is linked to the directory through the specified sharename (or path), the 3F UNSHARE command will return an error message and the sharename will not be deleted.

Examples

Example 1: Deleting a sharename.

```
3F UNSHARE apps ◀—  
\\FINANCE:HQ:3COM\APPS unshared.
```

Example 2: Making a directory without a sharename unavailable for sharing.

```
3F UNSHARE apps ◀—  
\\FINANCE:HQ:3COM\C:\APPS unshared.
```

Example 3: Deleting a sharename, using prompted mode.

```
3F UNSHARE ? ◀—  
Sharename?share2 ◀—  
\\FINANCE:HQ:3COM\SHARE2 unshared.
```


3MDELM

Deletes undelivered mail (mail that has been sent to but not yet retrieved by users).

Format

3M DELM *user* [/NP]

Required Capability

Administrator

Parameters

user The three-part name of the user whose undelivered mail you are deleting. To delete undelivered mail for all users on the server, enter an asterisk (*).

NP Suppresses the request for verification.

Remarks

The 3M DELM command deletes all mail that has not been retrieved by the user you specify or by all users on the server. DELM does not delete mailboxes.

If an employee changes location or leaves the company, you can delete mail waiting to be delivered to that employee by using the DELM command.

If you do not specify the domain and organization, 3+Mail uses the last specified domain and organization, usually the domain and organization you logged in with before executing the command.

Examples

Example 1: Deleting a specific user's mail.

```
3M DELM Barbara Cole ←  
Are you sure ? (Y/N) y ←  
Deleting contents of mailbox  
for Barbara Cole:HQ:3Com  
on corporate:HQ:3Com...  
Done
```

Example 2: Deleting all users' mail with no verification.

```
3M DELM * /NP ←  
Deleting contents of mailbox for *:HQ:3Com on  
Corporate:HQ:3Com...  
Done
```

Example 3: Deleting a specific user's mail, using a prompted mode.

```
3M DELM ? ←  
Name? barbara cole ←  
Are you sure ? (Y/N) y ←  
Deleting contents of mailbox  
for barbara cole:HQ:  
3Com on Corporate:HQ:3Com...  
Done
```

3MDEL1M

Deletes the first message in the queue waiting to be delivered to a user.

Format

3M DEL1M *user*

Required Capability

Administrator

Parameters

user The three-part name of the user whose undelivered first message you want to delete.

Remarks

The 3M DEL1M command deletes the first message in the queue of messages waiting to be delivered to a user. This may be necessary if a message is undeliverable because of improper formatting. It may also be necessary when a message with a particularly large attachment is not deliverable due to lack of disk space, is blocking the delivery of subsequent mail, and is causing an error condition for that user.

Examples

Example 1: Deleting the first message in a user's message queue.

```
3M DEL1M roger bowman ←
Deleting earliest message for roger
bowman:HQ:3Com on Corporate:HQ:3Com...
Done
```

Example 2: Deleting the first message in a user's message queue, using a prompted mode.

```
3M DEL1M ? ◀  
Username? roger bowman ◀  
DELETING EARLIEST MESSAGE FOR  
ROGER BOWMAN:HQ:3COM ON CORPORATE:HQ:3Com...  
DONE
```

3MDELO

Deletes outgoing mail waiting to be relayed to another server.



NOTE: The "O" in this command refers to the letter O, not the number zero.

Format

3M DELO *network:server* [/NP]

Required Capability

Administrator

Parameters

network

The number assigned to the network on which the specified server resides.

server

The network address of the server for which outgoing mail is destined and should be deleted.



NOTE: Server addresses and associated server names are registered in the 3+Name service.

NP

Suppresses the request for verification.

Remarks

The 3M DELO command deletes all outgoing mail destined for the specified server or for all servers when the wildcard *:* is used.



NOTE: Only mail being sent to the specified server is deleted. The 3M DELO command does not affect mail that has been received and is waiting to be delivered.

The 3M DIRO command can be used to display a list of servers to which outgoing mail is addressed and waiting to be sent. Details on this are shown later in this chapter.

Examples

Example 1: Deleting outgoing mail for a specific server.

```
3M DELO 0040400:02608C392084 <—  
Are you sure [Y/N]? y <—  
Deleting mail on Corporate:HQ:3Com  
outbound to network 0040400:Server  
address 02608C392084...  
Done
```

Example 2: Deleting all outgoing mail without verification.

```
3M DELO *:* /NP <—  
Deleting mail on corporate:HQ:3Com outbound to  
network *: Server address *...
```

Example 3: Deleting outgoing mail for a specific server, using a prompted mode.

3M DELO ?

Network Address ? **0040400**

Server Address? **02608C0392084**

Are you sure [Y/N]? **y**

Deleting mail on Corporate:HQ:3com outbound
to network 0040400:Server address 02608C392084...

3MDEL10

Deletes the oldest outgoing mail message waiting to be relayed to another server.



NOTE: The "O" in this command refers to the letter O, not the number zero.

Format

3M DEL10 *network:server* [/NP]

Required Capability

Administrator

Parameters

network The number assigned to the network on which the specified server resides.

server The network address of the server for which you want to delete the oldest outgoing mail message.



NOTE: Server addresses and associated server names are registered in the Name service.

NP

Suppresses the request for verification.

Remarks

The 3M DEL10 command deletes the oldest message waiting to be delivered to the specified server.



NOTE: Only the oldest message being sent to the specified server is deleted. The DEL10 command does not affect mail that the server has received and is waiting to deliver or other outgoing mail waiting to be delivered to the specified server.

To display a list of servers to which outgoing mail is addressed and waiting to be sent, use the 3M DIRO command. Details on using this command are shown later in this chapter.

Examples

Example 1: Deleting the oldest outgoing mail message for a specific server.

```
3M DEL10 0040400:02608C392084 ␣  
Are you sure [Y/N]? y ␣  
Deleting oldest mail on Corporate:HQ:3Com  
outbound to network 0040400:server address  
02608C392084 ...  
Done
```

Example 2: Deleting the oldest outgoing mail message for a specific server, using a prompted mode.

```
3M DEL10 ? 
Network Address? 0040400 
Server Address? 02608C0392084 
Are you sure [Y/N]? y 
DELETING OLDEST MAIL ON CORPORATE:HQ:3Com
outbound to network 0040400:server address
02608C392084 ...
Done
```

Example 3: Deleting the oldest outgoing mail message for a specific server, without verification.

```
3M DEL10 0040400:02608C392084 /NP 
Deleting oldest mail on Corporate:HQ:3Com outbound
to network 0040400:server address 02608C392084 ...
Done
```

3M DIRM

Lists users who have mail to retrieve and the number of their respective messages waiting.

Format

3M DIRM [/NP]

Required Capability

Administrator

Parameters

NP Suppresses the request for verification.

Remarks

Undelivered mail is mail that has not been retrieved by users. When an employee changes location within the company or leaves the company, you can use the 3M DIRM command to see whether his mailbox contains undelivered mail.

If you find mail that you want to delete, use the 3M DELM command.

Example

Listing users who have mail waiting to be retrieved.

```
3M DIRM ←┐
```

```
Checking for user mailboxes on  
Corporate:HQ:3Com...
```

User name	# Messages
Richard Bowman:HQ:3Com	15
Barbara Cole:HQ:3Com	3
Susan Anthony:HQ:3Com	10



NOTE: If the list is longer than one screen display, use **[Ctrl]+[S]** to stop scrolling. Type **[Ctrl]+[S]** again to continue scrolling.

3M DIRO

Lists the addresses of servers to which outgoing mail is addressed and the number of their respective messages.



NOTE: The "O" in this command refers to the letter O, not the number 0.

Format

3M DIRO [/NP]

Required Capability

Administrator

Parameters

NP Suppresses the request for verification.

Remarks

Outgoing mail is mail waiting to be relayed to another server. If a server is going to be out of service for a prolonged time, you can use 3M DIRO command to see whether there is outgoing mail for that server. To delete the outgoing mail, use the 3M DELO command.

Example

Listing the address of servers to which outgoing mail is addressed.

3M DIRO 

Checking outbound mail on Corporate:HQ:3Com...

Network:	Server address	Messages
00040400	02608C328640	20
00040400	02608C391084	3
00040401	02608C830192	10



NOTE: If the list is longer than one screen display, use **[Ctrl]+[S]** to stop scrolling. Type **[Ctrl]+[S]** again to continue scrolling.

3M HELP

Lists the 3+Mail management commands and their functions.

Format

3M HELP | ? [*command*]

Required Capability

Administrator

Parameters

command

The specific command for which information is desired.

Remarks

The 3M HELP or 3M ? command displays a list of the commands you can use to manage 3+Mail. For information about a particular command, enter the command name.

Examples

Example 1: Displaying a list of commands available for managing 3+Mail.

```
3M ? ↵
```

Enter one of the following commands:

Help

Diro

Dirm

Delo

Dello

DelM

Del1M

Status

Shutdown

Server=

Example 2: Displaying detailed information about 3M commands.

3M HELP ←

Command Summary:

DirO: Directory of Outbound messages.
 Show messages to be relayed to other mail servers
DirM: Directory of users' Mailboxes.
 Show messages in users' mailboxes
DelO: Delete Outbound messages.
 Delete messages to be relayed to other mail servers
DelM: Delete Messages
 Delete all messages from a user's mailbox
Del1M: Delete One Message
 Delete one message from a user's mailbox
Status: Show status of mail server
Shutdown: Shut down mail server in an orderly way
Server0: Connect to a different mail server

Example 3: Displaying information about a specific 3+Mail command.

3M HELP shutdown ←

Shuts down the mail service on a server.

3M SERVER=

Specifies the mail server with which you want to work.

Format

3M SERVER= [*server*] [/NP]

Required Capability

Administrator

Parameters

<i>server</i>	The name of the server you want to work with. If you omit this parameter, 3+Mail assumes you want to work with your default server.
NP	Suppresses the request for verification.

Remarks

If you do not want to work on your default server, you need to specify the server before you enter any operational commands. The server you specify stays in effect until you exit the 3+Mail service or specify a different server.



NOTE: A space is required between the equal sign and the server name.

Example

Specifying the server on which you want to work.

3M SERVER= corporate:hq:3Com ←

3M SHUTDOWN

Shuts down the 3+Mail service on a server.

Format

3M SHUTDOWN [/NP]

Required Capability

Administrator

Parameters

NP Suppresses the request for verification.

Remarks

The 3M SHUTDOWN command causes the 3+Mail software to halt service on the default server or the server you specified in the 3M SERVER= command. No other services are affected by the 3M SHUTDOWN command. This command assures an orderly shutdown of the 3+Mail service. All files are closed properly and the service is halted.

Examples

Example 1: Shutting down 3+Mail service on a server.

```
3M SHUTDOWN ←  
Preparing to shut down mail service on  
Corporate:HQ:3Com.  
Are you sure [Y/N]? y ←  
Mail service shut down.
```

Example 2: Shutting down 3+Mail service on a server, without verification.

3M SHUTDOWN /NP ←

Preparing to shut down mail service on
CORPORATE:HQ:3Com.

Mail service shut down.

3MSTATUS

Displays configuration and current status information for the 3+Mail service.

Format

3M STATUS [/NP]

Required Capability

Administrator

Parameters

NP Suppresses the request for verification.

Remarks

The 3M STATUS command displays information about the default server or the server you specified in the SERVER= command.

The first six entries displayed contain configuration information entered during installation of 3+Mail on the server.

The remaining two entries describe the current status of 3+Mail on the server:

- ▶ The **current number of mailboxes** is the number in use at the time you requested the status display.
- ▶ The **number of remote users** is the number logged in at the time you requested the status display.

Example

Displaying configuration and current status information of a server.

3M STATUS ←

Retrieving status for Corporate:HQ:3Com...

Mail S&F process sleeps:	30 seconds after each loop
Messages considered dead after:	24 hours
Maximum number of remote users:	1
Current number of remote users:	0
Number of server processes:	2
Maximum number of mailboxes:	64
Current number of mailboxes:	45

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Command Reference

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3N ADD ALIAS

Creates an alias for an entry in the 3+Name service.

Format

3N ADD ALIAS [\\]*name1*[:*domain*[:*organization*]]

Name? [\\]*name2*[:*domain*[:*organization*]]

Required Capability

Administrator

Parameters

name1:domain:organization

The three-part name of the alias you are creating. The three-part name must be unique within the Name service. If you omit this parameter from the command line, the service prompts you for it.

name2:domain:organization

The three-part name of the entry that the alias represents.

Remarks

Use aliases to create nicknames for users and to provide a shorthand notation for server names.

The 3N ADD ALIAS command creates an alias for an entry in the 3+Name service. The entry that the alias represents must already exist in the 3+Name service. The domain and organization of an alias need not be the same as the entry that the alias represents.

Examples

Example 1: Creating an alias for a user.

```
3N ADD ALIAS Freddy ◀  
Name? fred jones ◀  
Adding Alias Freddy:HQ:3Com for  
Fred Jones:HQ:3Com ...  
Alias Freddy:HQ:3Com added.
```

Example 2: Creating an alias for a user on another network.

```
3N ADD ALIAS Fred Afar ◀  
Name? fred afar:nyny:othercorp ◀  
Adding Alias Fred Afar:HQ:3Com for  
Fred Afar:Nyny:Othercorp ...  
Alias Fred Afar:HQ:3Com added.
```

3N ADD DOMAIN

Adds a domain to the 3+Name service.

Format

3N ADD DOMAIN *domain* [:*organization*]

Net Number? *netnum*

Required Capability

Administrator

Parameters

domain:organization

The name of the domain you are adding to the 3+Name service. The domain's name must be unique within its organization. If you specify a new organization as well as a new domain, the new organization is also added to the 3+Name service. If you omit this parameter, the service prompts you for it.

netnum

The number of the network on which the new domain resides. If the domain is on your network, press **[Return]** to accept the displayed default, which is the number of your network. If the domain is on another network, enter the number of that network. You will need to get the network number from the other network's administrator. A network number is an eight-character sequence of digits (0 through 9) and the letters A through F.

Remarks

The 3N ADD DOMAIN command adds a domain to the 3+Name service. Each domain name must be unique within its organization. The 3N ADD DOMAIN command also adds an organization to the 3+Name service if you specify a new organization as well as a new domain.

The most common use of 3N ADD DOMAIN is to add remote domains to the 3+Name service to support communication with other networks using 3+Route. You will need to get the network numbers of the other networks from their network administrators. You will also need to give other network administrators your network number. To see your network number, use the 3N STATUS command. For complete information on the use of the 3N STATUS command, see the *3+Share User Guide*. For information on communicating with other 3+ networks, see Chapter 4 of this guide.

Examples

Example 1: Adding a domain on the same network.

```
3N ADD DOMAIN Warehouse ◀
Net Number (00040004)? ◀
Adding Domain Warehouse:3Com ...
Domain Warehouse:3Com added.
```

Example 2: Adding a domain on a different network.

```
3N ADD DOMAIN NorthEast ◀
Net Number (00040004)? 00040009 ◀
Adding Domain NorthEast:3Com ...
Domain NorthEast:3Com added.
```

Example 3: Adding a domain and organization.

```
3N ADD DOMAIN HQ:OtherCorp ←  
Net Number (00040004)? 000459A0 ←  
Adding Domain HQ:OtherCorp ...  
Domain HQ:OtherCorp added.
```

3N ADD GROUP

Adds a group to the 3+Name service.

Format

3N ADD GROUP [\\]*name[:domain[:organization]]*

Comment? *text*

Required Capability

Administrator

Parameters

name:domain:organization

The three-part name of the group you are adding to the 3+Name service. The name must be unique in the 3+Name service. If you omit this parameter, the service prompts you for it.

text

Enter any string of characters not longer than 100 characters. To skip this prompt, press [Return].

Remarks

The 3N ADD GROUP command adds a group to the 3+Name service. Typically, groups are used to create and maintain distribution lists for use with 3Com's 3+Mail electronic mail product. Each group is a list of users who often receive the same mail. You can create a separate group for each distribution list.

Initially, a group has no members. You must add each member to the group using the 3N ADD MEMBER command. Groups, as well as users, can be members of a group. A single user or group can be the member of any number of groups. To delete members from a group, use the 3N DEL MEMBER command. These commands are discussed later in this chapter.

Example

Creating a group.

```
3N ADD GROUP sales ◀
```

```
Adding Group sales:HQ:3Com ...
```

```
Comment? List of salesforce located at HQ ◀
```

```
Group sales:HQ:3Com added.
```


3N ADD MEMBER

Adds a member to a group in the 3+Name service.

Format

3N ADD MEMBER [\\]name1[:domain[:organization]]

Group Name? [\\]name2[:domain[:organization]]

Required Capability

Administrator

Parameters

name1:domain:organization

The three-part name of the member you are adding. If you omit this parameter, the service prompts you for it.

name2:domain:organization

The three-part name of the group to which you are adding the member. To accept the displayed default, if any, which is the last referenced group, press **[Return]**. If no default is displayed, you must enter the name of the group.

Remarks

The 3N ADD MEMBER command adds a member to a group. The member can be a user or another group. Both the group and the member being added must already exist in the 3+Name service. For information on adding a group to the 3+Name service, see the 3N ADD GROUP command. For information on adding a user to the 3+Name service, see the 3N ADD USER command. For information on deleting a member from a group, see the 3N DEL MEMBER command.

Examples

Example 1: Adding a user to a group.

```
3N ADD MEMBER Fred Jones ◀
Group Name? sales ◀
Adding Member Fred Jones:HQ:3Com to
sales:HQ:3Com ...
Member Fred Jones:HQ:3Com added.
```

Example 2: Adding a group to a group.

```
3N ADD MEMBER sales ◀
Group Name? worldsales ◀
Adding Member sales:HQ:3Com to all
3Com worldsales:HQ:3Com ...
Member sales:HQ:3Com added.
```

3N ADD PROP

Adds a new property, or field, to the record definition for a class of entry, such as user or server, in the 3+Name service.

Format

3N ADD PROP *propnum*

PropertyType (S)? *type*

PropertyName? *propname*

PropertyDescription? *text*

PropertyLength? *proplen*

PropertyFormat (String)? *propformat*

Primary Property to add to? *entrytype*

Required Capability

Administrator

Parameters

propnum

A number that uniquely identifies the property. To avoid duplication with previously defined properties, the number should be in the range of 5000 through 9999. Duplicate property numbers are not allowed.

type

The type of property; primary or secondary. Primary properties should not be added. The default is secondary. Press **[Return]** in response to this prompt.

<i>propname</i>	The name of the property you are adding. The name is used as the prompt for the property in the appropriate 3N ADD command(s). The property's name can be 20 characters or fewer.
<i>text</i>	Any string of text not more than 132 characters.
<i>propflen</i>	The length of the property you are adding. The maximum length of a property is 256.
<i>propformat</i>	The format of the property. The default is string. Other formats will not function from the user interface. Press [Return] in response to this prompt.
<i>entrytype</i>	The class of entry to which you are adding the property. The supported values are USER and SERVER . This prompt is repeated until you press [Return] .

Remarks

The 3N ADD PROP command adds a new property or field to a class of entry in the 3+Name service. Properties are primarily intended for use by network applications. Properties should not be used to store data that change frequently; use properties for data that do not change or change slowly.

Example

Adding a new property to user records.

```
3N ADD PROP 5003 ◀  
Property Type (S)? ◀  
Property Name? Birthday ◀  
Property Description? User's birthday in  
MM/DD/YY format ◀  
Property Length? 8 ◀  
Property Format (String)? ◀  
Adding Property 503 ...  
Property 503 added.  
Primary Property to add to? user ◀  
Primary Property to add to? ◀
```

3N ADD SERVER

Adds a server to the 3+Name service.

Format

3N ADD SERVER [\\]*name* [:*domain*[:*organization*]]

Comment? *text*

Net Number? *netnum*

Ethernet Address? *netaddr*

3ShareInstalled? *share*

3MailInstalled? *mail*

3RouteInstalled? *route*

3BackupInstalled? *backup*

3RemoteInstalled? *remote*

3NetConnectInstalled? *connect*

3StartInstalled? *start*

Required Capability

Administrator

Parameters

name:domain:organization

The three-part name of the server you are adding to the 3+Name service. The name must be unique in the Name service. If you omit this parameter, the service prompts you for it.

text

Any string of characters not longer than 100 characters. To skip this prompt, press **[Return]**.

netnum

The number of the network on which the server is located. If the server is on your network, press **[Return]** to accept the displayed default, which is the number of your network. If the server is on another network, enter the number of that network.

To see your network number, use the 3N STATUS command. The number itself is assigned by 3Com to 3+Share server packages and is entered in the file 3NAME.NSP during installation. A network number is an eight-character sequence of digits (0 through 9) and the letters A through F.

netaddr

The network address of the new server. Each 3Com EtherLink board or 3Server has a unique address encoded in read-only memory. Use the 3N DIR command to see the address of an installed server. The network address is also on the server's EtherLink board. A network address is a 12-character sequence of digits (0 through 9) and the letters A through F.

share

Enter **Y** if the 3+Share File and Print services are installed on this server. Enter **[ESC]** otherwise.

mail

Enter **Y** if 3+Mail is installed on this server. Enter **[ESC]** otherwise.

route

Enter **Y** if 3+Route is installed on the server. Enter **[ESC]** otherwise.

backup

Enter **Y** if 3+Backup is installed on the server. Enter **[ESC]** otherwise.

<i>remote</i>	Enter Y if 3+Remote is installed on the server. Enter [ESC] otherwise.
<i>connect</i>	Enter Y if 3+NetConnect is installed on the server. Enter [ESC] otherwise.
<i>start</i>	Enter Y if 3+Start is installed on the server. Enter [ESC] otherwise

Remarks

The 3N ADD SERVER command adds a server to the 3+Name service. Normally, you do not need to add the names of servers that are on your network. When a server is started, it automatically adds an entry for itself to the Name service unless an entry already exists. To list entries in the Name service, see the 3N DIR command in the *3+Share User Guide*.

If you use 3+Route or 3+Netconnect to communicate with other networks, you can add servers on the other networks to your 3+Name service. This allows users on your network to link to the shared directories and printers on the other networks' servers. You will need to exchange network numbers, names, and network addresses with other network administrators. You can use the 3N STATUS and 3N DIR commands to determine your network number and servers' network addresses, respectively.

Example

Adding a remote server to the 3+Name service.

```
3N ADD SERVER Sales:NorthWest ◀
Adding Server Sales:NorthWest:3Com ...
Comment? A server in the field with
dial-up access ◀
Net Number (00040004)? 00040009 ◀
Ethernet Address? 02608C00809E ◀
3ShareInstalled? [ESC] ◀
3MailInstalled? Y ◀
3RouteInstalled? Y ◀
3BackupInstalled? [ESC] ◀
3RemoteInstalled? [ESC] ◀
3NetConnectInstalled? [ESC] ◀
3StartInstalled? [ESC] ◀
Server Sales:NorthWest:3Com added.
```

3N ADD USER

Adds a new user to the 3+Name service.

Format

3N ADD USER *name[:domain[:organization]]*

Comment? *text*

CapabilityClass(U)? *capclass*

3ShareServer? *fileserver*

HomeDir? *homedir*

File server Drive? *drive*

3MailServer? *mailserver*

Required Capability

Administrator

Parameters

name:domain:organization

The three-part name of the user you are adding to the 3+Name service. The name must be unique in the Name service. If you omit this parameter, the service prompts you for it.

text

Any string of characters not longer than 100 characters. To skip this prompt, press **[Return]**.

capclass

The new user's capability class. To give the user administrator capability, enter **A**. For user (or normal) capability, enter **U** or press **[Return]**.

fileserver

The three-part name of the file server that will serve this user. The user's home directory is created on this file server. This file server is also the user's default print server.

You can omit this parameter by pressing **[Return]**, or **[Esc]** and **[Return]** if a default file server is displayed. If you omit this parameter, the user has no default file and print server, no home directory, and cannot use the 3+Share File and Print services. The next two prompts do not appear.

homedir

The name of the home directory that will be created for the user on the above-named server. The home directory name must be a valid DOS directory name of eight characters or fewer.

drive

The drive identifier of the server's drive on which you want the user's home directory created. The drive identifier must designate an existing shared disk drive on the user's file server. To find the available drives and the free space on each drive, use the 3F STAT command. For information on 3F STAT, see the *3+Share User Guide*.

mailserver

The name of the new user's mail server. If you do not assign the user a mail server, he is unable to use the 3+Mail service. To assign no mail server, press **[Esc]** and then **[Return]** if a default mail server's name is displayed. If no default is displayed, press **[Return]**.

Remarks

The 3N ADD USER command adds a user to the 3+Name service. You must add a user to the Name service before that user can log in and use the network.

In addition to entering the user in the 3+Name service, this command also creates a home directory for the user on the assigned file server, if any. The assigned file server is also the user's default server for 3+Share File and Print service operations. If the user is not assigned a file server, no home directory is created and the user cannot use the File and Print services.

Each user who is assigned a file server owns a unique home directory and all the files and directories below it. A user can always link to his own home directory. No user other than the owner can link to a home directory unless the owner shares it by using 3F SHARE command. Initially, the user's home directory is empty. After linking to it, the user can create files and directories using DOS commands and application programs.

You must name each user's home directory. You should establish a convention for naming users' home directories. One such convention is to name each home directory by the initials of the user's first and middle names and the first six characters of the user's last name. For example, user Fred T. Jones's home directory would be named FTJONES, and Mary B. Harrison's would be MBHARRIS.

If your network supports 3+Remote PC users who dial in to the network, you must add each of these users to the 3+Name service. If these users are already in the Name service because they also use the network locally, you do not need to add them again.

If you add a user to the Name service and specify a file or mail server that is not operational, the user cannot be added to the inoperative server. If this happens, an onscreen message asks if you want to add the user to the Name service even though the user cannot be added to the specified file or mail server. You can answer **N** (no) and try to add the user again later. You can answer **Y** (yes) and let the user be added to the Name service without adding the user to the specified file or mail server. If you answer **Y** (yes), you must modify the user entry with the 3N MOD command and delete the name of the inoperative file or mail server. You should never allow a user entry to specify a file or mail server to which the user is not yet successfully added.

Example

Adding a new user to the 3+Name service.

```
3N ADD USER Fred Jones ◀
Adding User Fred Jones:HQ:3Com ...
Comment? Factory sales support engineer ◀
CapabilityClass(U)? ◀
3ShareServer? finance ◀
HomeDir? fjones ◀
File server Drive? c: ◀
3MailServer? corporate ◀
User Fred Jones:HQ:3Com added.
Adding Fred Jones:HQ:3Com to Share Server
Finance:HQ:3Com ...
Adding Fred Jones:HQ:3Com to Mail server
Corporate:HQ:3Com ...
```

3N DEL

Deletes a user, group, or server from the 3+Name service.

Format

3N DEL[ETE] [\\]name[:domain[:organization]] [/NP]

Required Capability

Administrator

Parameters

name:domain:organization

The three-part name of the user, group, or server you want to delete from the 3+Name service. If you omit this parameter, the service prompts you for it.

NP

Suppresses the request for verification.

Remarks

The 3N DEL command deletes users, groups, and servers from the 3+Name service. The service prompts you to verify the deletion before it is performed unless you include the NP parameter.



NOTE: Whenever you delete an entry from the 3+Name service, you should also delete any aliases for that entry, using the 3N DEL ALIAS command.

The following restrictions and considerations apply to the various types of entries you can delete with this command.

Deleting Users

Before you can delete a user from the 3+Name service, the user's home directory must be empty and the user must have no undelivered mail. If the user's home directory is not empty or the user has undelivered mail, you must first log in as that user and delete the contents of the home directory and any undelivered mail. If you do not know the user's password, first use the 3N MOD command to delete the user's password. You can then log in as that user without supplying a password.

Use the DOS DEL and RMDIR commands to delete files and directories, respectively, from the user's home directory; see the DOS manual for more information. For information on deleting a user's undelivered mail, see the 3M DELM command earlier in this chapter.

Deleting Groups

There are no restrictions on deleting groups. You do not need to delete the members from a group before you delete the group.

Deleting Servers

You need to delete a server from the 3+Name service only if the server is removed from the network. If an entry exists in the Name service for a remote server, you need to delete the entry if that remote server is removed from its network.

Before you remove a server from the network and delete it from the Name service, copy any files you want to save to diskettes, tape, or another server. If any users have home directories on that server, you need to assign those users to another file server and likewise move the contents of their home directories. For more information on changing a user's default file server, see the 3N MOD command later in this chapter. If the server provided 3+Mail service to any users, you will need to reassign those users to another mail server. For information on such reassignments, see the 3N MOD command later in this chapter.

Always perform a proper shutdown of all services on a server before turning off power to the server. For instructions on shutting down services, see the 3F, 3P, and 3N SHUTDOWN commands in this chapter.

Examples

Example 1: Deleting a user from the 3+Name service.

```
3N DEL fred jones ◀
Delete User Fred Jones:HQ:3Com [Y/N]? y ◀
User Fred Jones:HQ:3Com deleted.
```

Example 2: Deleting a group from the 3+Name service.

```
3N DELETE sales ◀
Delete Group sales:HQ:3Com [Y/N]? y ◀
Group sales:HQ:3Com deleted.
```


Example 3: Deleting a remote server from the 3+Name service.

```
3N DEL sales:northwest ↵
Delete Server Sales:NorthWest:3Com [Y/N]? y
Server Sales:NorthWest:3Com deleted.
```

Example 4: Changing your mind while deleting a user.

```
3N DELETE fred jones ↵
Delete User Fred Jones:HQ:3Com [Y/N]? n ↵
*** Cancelled.
```

Example 5: Deleting a user without the request for verification.

```
3N DEL fred jones /NP ↵
User Fred Jones:HQ:3Com deleted.
```

3N DEL ALIAS

Deletes an alias from the 3+Name service.

Format

3N DEL[ETE] ALIAS [\\]*name[:domain[:organization]]* [/NP]

Required Capability

Administrator

Parameters

name:domain:organization

The three-part name of the alias you want to delete from the 3+Name service. If you omit this parameter, the service prompts you for it.

NP

Suppresses the request for verification.

Remarks

The 3N DEL ALIAS command deletes an alias from the 3+Name service. Unless you include the NP parameter on the command line, you must verify the deletion before it takes place.

You cannot make changes to an existing alias. To change an alias, you must first delete the alias, then add a new one using 3N ADD ALIAS. Deleting an alias from the Name service does not delete the user entry for which the alias stands.

When you delete a user, you must also delete any alias associated with the user's name.

Examples

Example 1: Deleting an alias from the 3+Name service.

```
3N DEL ALIAS freddy ↵  
Delete Alias freddy:HQ:3Com [Y/N]? y ↵  
Alias freddy:HQ:3Com deleted.
```

Example 2: Deleting an alias without verification.

```
3N DEL ALIAS freddy /NP ↵  
Alias freddy:HQ:3COM deleted.
```

3N DEL DOMAIN

Deletes a domain and all associated entries from the 3+Name service.

Format

3N DEL[ETE] DOMAIN *domain[:organization]* [/NP]

Required Capability

Administrator

Parameters

domain:organization

The name of the domain you want to delete from the 3+Name service. If you omit this parameter, the service prompts you for it.

NP

Suppresses the request for verification.

Remarks

The 3N DEL DOMAIN command deletes a domain and all entries within the domain from the 3+Name service. If the domain you are deleting is the last domain in an organization, the organization is also deleted.



CAUTION: Deleting a domain also deletes all entries in the 3+Name service that belong to the domain. Use this command carefully as you can accidentally delete a great many entries, such as users. Moreover, adding the domain again does not retrieve the lost entries. Before you delete a domain, use the 3N DIR command to see if it contains any entries. For information on the 3N DIR command, see the *3+Share User Guide*.

If an alias exists for the domain, delete it using the 3N DEL ALIAS command.

Example

Deleting a domain from the 3+Name service.

```
3N DEL DOMAIN old-domain ↵
Delete Domain old-domain:3Com [Y/N]? y ↵
Domain old-domain:3Com deleted.
```

3N DEL MEMBER

Deletes a member from a group in the 3+Name service.

Format

3N DEL[ETE] MEMBER [\\]*name1*[:*domain*[:*organization*]] [/NP]

Group Name? [\\]*name2*[:*domain*[:*organization*]]

Required Capability

Administrator

Parameters

name1:domain:organization

The three-part name of the member you want to delete from the specified group. If you omit this parameter, the service prompts you for it.

name2:domain:organization

The three-part name of the group from which you want to delete the member.

NP

Suppresses the request for verification.

Remarks

The 3N DEL MEMBER command deletes a member from a group. Use this command to remove members from distribution lists.

Example

Deleting a member from a group.

```
3N DEL MEMBER fred jones ←  
Group Name? sales ←  
Delete Member Fred Jones:HQ:3Com from  
sales:HQ:3Com [Y/N]? y ←  
Member Fred Jones:HQ:3Com deleted.
```

3N DEL PROP

Deletes an existing property, or field, from an entry's record in the 3+Name service.

Format

3N DEL PROP *propname* | *propnum* [/NP]

Required Capability

Administrator

Parameters

propname

The name of the property you want to delete. You can also specify the property by its property number.

propnum

The number of the property you want to delete. This is the number that was assigned to the property when it was added to the 3+Name service.

NP

Suppresses the request for verification before deleting the specified property.

Remarks

You should only delete user-defined properties.



CAUTION: Deleting predefined properties causes network applications to fail.

Example

Deleting a property by number without verification.

```
3N DEL PROP 5003 /NP ←  
Property 5003 deleted.
```

3N DIR PROP

Displays the properties that have been added to the 3+Name service.

Format

3N DIR PROP [*propnum* | *propname*]

Required Capability

Administrator

Parameters

propnum

The number of the property you are displaying. This parameter is optional; if you do not specify a particular property number or name, all properties in the 3+Name service are displayed.

propname

The name of the property you are displaying. This parameter is optional; if you do not specify a particular property name or number, all properties in the Name service are displayed.

Remarks

The 3N DIR PROP command allows you to list a specific property by number or name, or to list all the properties in the 3+Name service.

If you list a particular property, all fields for that property are listed. If you do not specify a particular property, the property number, type, and name are listed for all properties in the 3+Name service. Although only users with administrator capability can add, modify, or delete a property from the Name service, regular users can display a property or properties.

Examples

Example 1: Displaying a particular property.

```
3N DIR PROP 5008 ←
Property Number:      5008
Property Type:         Password
Property Name:         Password
Property Length:       2
Property Description:  Hashed password
Property Format:       CARDINAL
```

Example 2: Displaying all properties in the 3+Name service.

```
3N DIR PROP ←
Finding Properties . . .
Number: 204    Type: Secondary    Name: Address
Number: 4      Type: Secondary    Name: addresslist
Number: 3      Type: Group        Name: members
Number: 100    Type: Primary      Name: User
Number: 205    Type: Secondary    Name: Server
```

3N MOD

Modifies a user, group, or server entry in the 3+Name service.

Format

3N MOD[IFY] [*name[:domain[:organization]]*]

Required Capability

Administrator

Parameters

name:domain:organization

The three-part name of the user, group, or server entry you want to modify. If you omit this parameter, the service prompts you for it.

The 3+Name service determines the type of entry you want to modify by looking up its name. Each type of entry has its own set of additional parameters. The service prompts you for these additional parameters after the Name service has determined the type of entry you want to modify. Each set of additional parameters is described separately after the following general remarks.

General Remarks

The 3N MOD command modifies existing entries in the 3+Name service. You can modify users, groups, and servers with the 3N MOD command.

You are prompted for each parameter you can modify. Included in each prompt is the current value of the parameter, if any. To keep the current value, press **[Return]** in response to the prompt. To change the current value, enter a new value and press **[Return]**. To clear the current value without entering a new value, press **[Esc]** and then **[Return]**.

You can cancel the 3N MOD command by pressing **[Esc]** in response to a prompt for a parameter with no current or default value, or by pressing **[Esc]** twice in response to a prompt for a parameter with a current or default value. (The first time clears the current value and the second time cancels the 3N MOD command.)

Modifying Users

Parameters

Comment?

To keep the current comment, press **[Return]**. To change the comment, enter a new comment and press **[Return]**. To erase the comment without entering a new comment, press **[Esc]** and then **[Return]**. A comment can be any string of 100 characters or fewer.

Password?

To keep the current password, press **[Return]**. The current password is not displayed. Only the user can modify his own password. With administrator capability, however, you can delete the user's password by pressing **[Esc]** and then **[Return]**.

CapabilityClass?

To keep the displayed capability class, press **[Return]**. To change the user's capability class, enter the new capability class and press **[Return]**. Enter **U** for normal capability. Enter **A** for administrator capability.

3MailServer?

The three-part name of the user's mail server. If the 3+Mail service is not installed on the network, this prompt is not displayed.

If your network uses 3+Mail, you can respond to this prompt in one of the following ways. Press **[Return]** to keep the current mail server (or none if none is currently assigned). Press **[Esc]** and then **[Return]** to delete the current Mail Server assignment, provided the user has no undelivered mail. If there is no mail server currently assigned, specify a mail server by entering the server's three-part name and pressing **[Return]**. You cannot change from one mail server to another in a single operation. Instead, you must delete the current mail server assignment, and then use 3N MOD again to specify the new mail server.

3ShareServer?

The three-part name of the user's file server, if any. Press **[Return]** to accept the current file server assignment (or none if none is currently assigned). Press **[Esc]** and then **[Return]** to delete the current file server assignment. The user's home directory must be empty before you can delete the file server assignment. If there is no currently assigned file server, you can specify a new server by entering its name and pressing **[Return]**. If you specify a new server, the service will prompt you for the following two parameters.

HomeDir?

The name of the user's home directory. This prompt appears only if you specified a new file server in response to the *3ShareServer?* prompt. The user's home directory is created with the name you supply here. The name you supply must be a valid DOS directory name of eight characters or fewer.

File server Drive

The disk drive on which the user's home directory is to be created. You are prompted for this parameter only if you specified a new file server in response to the *3ShareServer?* prompt. You must supply a drive identifier for a shared hard disk on the assigned file server.

Remarks

You cannot modify a user's password with the 3N MOD command, but you can delete the password altogether. This is useful whenever you need to log on as a particular user and you do not know that user's password. You can use the 3N MOD command to delete the user's password, and then you can log in as that user without supplying a password. Only a user can modify or assign his own password. For more information, see the *3+Share User Guide*.

You cannot change a user's file server in a single operation. To change a user's file server, you must use the 3N MOD command twice: once to delete the old file server, and the second time to add the new file server. For complete instructions, see the section "Moving Users" in Chapter 5.

You cannot change a user's mail server in a single operation. If you want to change a user's mail server, you must use the 3N MOD command twice: once to delete the old mail server, and the second time to add the new mail server. You must clear any undelivered mail before removing a 3+Mail server.

Modifying Groups

Parameters

Comment?

To keep the current comment, press **[Return]**.
To change the comment, enter the new comment and press **[Return]**. To clear the current comment without entering a new comment, press **[Esc]** and then **[Return]**. A comment can be any string of 100 characters or fewer.

Remarks

Using the 3N MOD command, you can only modify a group's comments. To change the members of a group, you must use the 3N ADD MEMBER and 3N DEL MEMBER commands.

Modifying Servers

Parameters

Comment?

To keep the current comment, press **[Return]**.
To change the comment, enter the new comment and press **[Return]**. To clear the current comment without entering a new comment, press **[Esc]** and then **[Return]**. A comment can be any string of 100 characters or fewer.

Net Number?

The number of the network to which the server is connected. To accept the current value, press **[Return]**. To change the network number, enter the new network number and press **[Return]**.

Use the 3N STATUS command to see your network number. The number itself is assigned by 3Com to 3+Share server packages and is entered in the file 3NAME.NSP during installation. A network number is an eight-character sequence of digits (0 through 9) and the letters A through F.

Ethernet Address?

The network address of the server. To keep the current value, press **[Return]**. To change the address, enter the new address and press **[Return]**.

Each 3Com EtherLink board or 3Server has a unique network address encoded in read-only memory. Use the 3N DIR command to see the address of a server installed on your network. See the EtherLink board for the network address on an uninstalled server. A network address is a 12-character sequence of digits (0 through 9) and the letters A through F.

3ShareInstalled?

Press **[Return]** to keep the current answer. Enter **Y** or **[ESC]** to cancel the default.

3MailInstalled?

Press **[Return]** to keep the current answer. Enter **Y** or **[ESC]** to cancel the default.

3RouteInstalled?

Press **[Return]** to keep the current answer. Enter **Y** or **[ESC]** to cancel the default.

3BackupInstalled?

Press **[Return]** to keep the current answer. Enter **Y** or **[ESC]** to cancel the default.

3RemoteInstalled?

Press **[Return]** to keep the current answer. Enter **Y** or **[ESC]** to cancel the default.

3StartInstalled?

Press **[Return]** to keep the current answer. Enter **Y** or **[ESC]** to change the answer.

3NetConnect Installed?

Press **[Return]** to keep the current answer. Enter **Y** or **[ESC]** to change the answer.

Remarks

Use this 3N MOD command to correct errors made when adding a remote server to the 3+Name service with the 3N ADD SERVER command. For example, if you entered a remote server's network address incorrectly, you can use this command to enter the correct address.

Entries for servers on your own network need to be modified if a service is added or removed.

Examples

Example 1: Deleting a user's password.

```
3N MOD fred jones ↵
Looking for fred jones:HQ:3Com ...
Comment (Factory sales support engineer)? ↵
Password (*****)? [Esc] ↵
CapabilityClass (U)? ↵
3ShareServer (Finance:HQ:3Com)? ↵
3MailServer (Corporate:HQ:3Com)? ↵
User Fred Jones:HQ:3Com modified.
```

Example 2: Modifying a group.

```
3N MOD sales ↵
Looking for sales:HQ:3Com ...
Comment (List of salesmen)? List of sales
people at HQ ↵
Group sales:HQ:3Com modified.
```

Example 3: Modifying a remote server.

```
3N MOD sales:northwest ↵
Looking for sales:northwest:3Com ...
Comment (A server in the field with dial-up
access)? ↵
Password? ↵
Net Number (00040009)? ↵
Ethernet Address (02608C479800)? 02608C478900 ↵
3ShareInstalled (Y)? [ESC] ↵
3MailInstalled (Y)? ↵
3RouteInstalled (Y)? ↵
3BackupInstalled (Y)? [ESC] ↵
3RemoteInstalled (Y)? [ESC] ↵
3StartInstalled (Y)? [ESC] ↵
3NetConnectInstalled (Y)? [ESC] ↵
Server Sales:NorthWest:3Com modified.
```

Example 4: Modifying a server on your network to add 3+Mail service.

```
3N MOD corporate <—  
Looking for Corporate:HQ:3Com  
Comment (3Server next to Joe's desk.)? <—  
Password? <—  
Net Number (00040010)? <—  
Ethernet Address (02608C483200)? <—  
3ShareInstalled (Yes)? [ESC] <—  
3MailInstalled (Yes)? <—  
3RouteInstalled (Yes)? <—  
3BackupInstalled (Yes)? [ESC] <—  
3RemoteInstalled (Yes)? [ESC] <—  
3StartInstalled (Yes)? [ESC] <—  
3NetConnectInstalled (Yes)? [ESC] <—  
Server CORPORATE:HQ:3COM Modified
```

3N MOD DOMAIN

Modifies a domain in the 3+Name service.

Format

3N MOD[IFY] DOMAIN *domain[:organization]*

Net Number? *netnum*

Required Capability

Administrator

Parameters

domain:organization

The name of the domain you want to modify.
If you omit this parameter, the service prompts
you for it.

netnum

The number of the network on which the
domain is located. To accept the current value,
press **[Return]**. To change the network number,
enter the new number and press **[Return]**. A
network number is an eight-character sequence
of digits (0 through 9) and the letters A
through F.

Remarks

When you modify a domain, you cannot change its name. You
can change its network number only. You will want to do this
if a domain moves from one network to another, or to correct a
network number that you entered incorrectly.

If you are using the 3+Route or 3+Netconnect service to communicate with other networks, you need to update the configuration information when you modify a remote domain. For more information on changing the 3+ Route configuration if you have a 3Server386, see the *3+ Installation and Setup Guide*. Otherwise, refer to the *3+ Installation and Configuration Guide*.

Example

Modifying a domain.

```
3N MOD DOMAIN ◀  
Domain Name? northwest ◀  
Net Number (00040009)? 400 ◀  
Domain Northwest:3Com modified.
```

3N MOD PROP

Modifies a property in the 3+Name service.

Format

3N MOD[IFY] PROP *propnum* | *propname*

PropertyName? *propname*

PropertyDescription? *text*

PropertyLength? *proplen*

PropertyFormat (String)? *propformat*

Required Capability

Administrator

Parameters

propnum

The number of the property you want to modify. A property with the specified number must exist. You can also specify the property by name.

propname

When specified on the command line, this is the name of the property you want to modify. In response to the **PropertyName?** prompt, you can specify a new property name. When using the 3N ADD command to add an entry with this property to the 3+Name service, the property name is used as the prompt for this property or field. A property name is at most 20 characters long.

<i>text</i>	Any string of text 132 characters or fewer.
<i>proplen</i>	The length of the property or field you are adding. The maximum length of a property is 256.
<i>propformat</i>	The format of the property. The default is string. Other formats will not function from the user interface. Press [Return] in response to this prompt.

Remarks

The 3N MOD PROP command allows you to modify a property's name, description, and length.



CAUTION: Modifying predefined properties causes network applications to fail. You should only modify a user-defined property.

Example

Modifying a property.

```
3N MOD PROP 5003 ↵
PropertyName (Birthday)? ↵
PropertyDescription? Date of birth in
mm/dd/yy format ↵
PropertyLength (8)? ↵
PropertyFormat (S)? ↵
Property 5003 modified.
```

3N SET

Sets the 3+Name service's time and date.

Format

3N SET [/TIME=*hh:mm[:ss]*] [/DATE=*mm-dd-yy*]

Required Capability

Administrator

Parameters

hh:mm:ss

The current local time specified in a 24-hour notation in which *hh* is the hour, *mm* the minutes, and *ss* the seconds. The seconds are optional. Thus, 1:00 A.M. becomes 1 and 1:00 P.M. becomes 13. Leading zeros are not required.

mm-dd-yy

The current date in month, day, and year format. Thus, *mm* is the month (1 for January through 12 for December), *dd* the day of the month, *yy* the last two digits of the year (1986 is 86, for example). Leading zeros are not required.

Remarks

Although the 3N SET command is both a user command and an administrator command, the discussion here is limited to capabilities reserved for administrators. For a discussion of the 3N SET command capabilities available to all users, see the *3+Share User Guide*.

The 3N SET command sets the 3+Name service's time and date. It has the same effect as using the DOS TIME and DATE commands at the Name service server. The 3N SET command's main function is to set the Name service's time and date, either from a netstation or when the Name service server is a 3Server.

The time and date may be changed for any server on the network by using 3N SET and answering the prompts.

Examples

Example 1: Setting the time and date.

```
3N SET /TIME=12:08 /DATE=1-18-86 ←
```

Example 2: Setting the time and date, using prompted mode.

```
3N SET ? ←  
Server Name? Finance ←  
Domain Name? hq ←  
Organization Name? 3com ←  
Time? 08:47 ←  
Date? 06-11-86 ←  
Set complete
```

3N SHUTDOWN

Shuts down the 3+Name service.

Format

3N SHUTDOWN [/NP]

Required Capability

Administrator

Parameters

NP Suppresses the request for verification.

Remarks

The 3N SHUTDOWN command stops the 3+Name service. Using this command is the only correct way to stop the Name service. As the last step before turning off power to the network, use the 3N SHUTDOWN command. All other services on all servers must be shut down before you use the 3N SHUTDOWN command.

When stopping network operations, shut down the network one server at a time, ending with the Name service server. To restart network operations, always start the Name service server first. You can start any remaining servers in any order.

For information on shutting down the 3+Share File and Print services, see the 3F SHUTDOWN and 3P SHUTDOWN commands in this chapter.

Example

Shutting down the 3+Name service.

```
3N SHUTDOWN ◀
Shutdown the Name service [Y/N]? y ◀
The Name service is shutdown.
```

7

Command Reference

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3P DEL

Deletes a spool file from a print queue.

Format

3P DEL[ETE] [*prnid*] /SPOOL=*spoolid* [*] ALL [/NP]

Required Capability

Administrator

Parameters

prnid

One of the following four printer identifiers: PRN:, LPT1:, LPT2:, or LPT3:. PRN: is the same as LPT1:. One of these four identifiers will correspond to the printer whose queue contains the spool file you want to delete. You must have previously linked a printer to the specified printer identifier using the 3P LINK command. If you omit this parameter, the default is the printer identifier PRN:.

spoolid

A number that identifies the spool file you want to delete. The spoolid is assigned by the 3+Print service when a spool file is added to a print queue. Use the 3P QSTAT command to determine a spool file's spoolid. For information on the 3P QSTAT command, see the *3+Share User Guide*.

*

Specifies all spool files in the printer's queue that belong to you. Using this in place of spoolid deletes all your spool files from the queue, including the currently printing spool file if it is yours also.

ALL	Specifies all spool files. Using this in place of spoolid deletes all spool files from the queue. This option deletes the whole queue including the file currently printing.
NP	Suppresses the request for verification.

Remarks

The 3P DEL command deletes the specified spool file, or all spool files, from the print queue. This command is also available to users. Users can delete their own spool files only; administrators can delete any and all spool files from the print queue. For information on using this command as a user, see the *3+Share User Guide*.

You can use the 3P DEL command to delete the currently printing spool file. The printing of the spool file stops and the message "CANCELLED BY OPERATOR" is printed. The spool file is then deleted and printing continues with the next spool file in the queue.

Before you can use the 3P DEL command, you must link to the printer whose queue contains the file(s) you want to delete. Use the 3P LINK command to link a printer identifier to the printer. For information on using the 3P LINK command, see the *3+Share User Guide*.

Examples

Example 1: Deleting a single file from a print queue.

```
3P DEL lpt2: /SPOOL=23 
Are you sure [Y/N]? y 
/SPOOL=23 deleted from
\\FINANCE:HQ:3COM\LASERJET.
```

Example 2: Deleting an entire print queue.

```
3P DEL prn: /SPOOL=ALL 
Are you sure [Y/N]? y 
/SPOOL=ALL deleted from
\\FINANCE:HQ:3COM\EPSON.
```

Example 3: Deleting a single file from print queue using a prompted mode.

```
3P DEL ? 
Printer Id (PRN:)? 
Spool ID? 6 
Are you sure [Y/N]? y 
/Spool=6 deleted from
\\FINANCE:HQ:3COM\LASERJET.
```


3P MOD

Modifies a printer's password.

Format

3P MOD[IFY] *printername* /PASS=*pass*

Required Capability

Server-user

Parameters

<i>printername</i>	The name of the printer whose password you want to modify. This is the name assigned to the printer via the 3P SHARE command.
<i>pass</i>	The new password you want to assign to this printer. If a password is assigned to the printer, a user must supply the password when linking to the printer. If the pass parameter is left blank, then no password is assigned and none is required for linking.

Remarks

The 3P MOD command modifies a printer's password. You can use the command to add a password, change a password, or delete a password. This command does not affect any existing links to the printer.

You can use the 3P MOD command to modify passwords for only those printers attached to the server for which you are logged in as the server-user. To modify passwords on printers attached to another server, you must log in as the server-user for that server.

Examples

Example 1: Changing or assigning a password.

```
3P MOD laserjet /PASS=newpass ↵
\\FINANCE:HQ:3COM\LASERJET modified.
```

Example 2: Deleting a password.

```
3P MOD laserjet /PASS= ↵
\\FINANCE:HQ:3COM\LASERJET modified.
```

Example 3: Changing or assigning a password in prompted mode.

```
3P MOD ? ↵
Printer Sharename? laserjet ↵
New Password (*****)? newpass ↵
\\FINANCE:HQ:3COM\LASERJET modified.
```

Example 4: Deleting a password in prompted mode.

```
3P MOD ? ↵
Printer Sharename? laserjet ↵
New Password (*****)? [Esc] ↵
\\FINANCE:HQ:3COM\LASERJET modified.
```

3P MOVQ

Moves one printer's queue to the end of another printer's queue.

Format

3P MOVQ *prnid1* [*prnid2*]

Required Capability

Administrator

Parameters

prnid1

One of the following four printer identifiers: PRN:, LPT1:, LPT2:, or LPT3:. PRN: is the same as LPT1:. This parameter specifies the printer whose queue you want to move. You must have linked a printer to the specified printer identifier.

prnid2

One of the following four printer identifiers: PRN:, LPT1:, LPT2:, or LPT3:. PRN: is the same as LPT1:. This parameter specifies the printer to receive the queue. You must have linked a printer to the specified printer identifier, and the linked printer must be attached to the same server as the printer specified in the *prnid1* parameter. That is, both printers must be on the same server. If you omit this parameter, the default is PRN:.

Remarks

The 3P MOVQ command moves the queue of spool files waiting to be printed on the printer specified in the *prnid1* parameter to the queue of the printer specified in the *prnid2* parameter. You can move queues only between two printers attached to the same server.

If a spool file is printing on the first printer, that spool file continues printing and is not moved with the rest of the queue.

Before you can use the 3P MOVQ command, you must have linked both printer identifiers, *prnid1* and *prnid2*, to printers (on the same server). For more information on linking to printers, see the description of the 3P LINK command in the *3+Share User Guide*.

Examples

Example 1: Moving a print queue.

```
3P MOVQ lpt3: lpt1: ↵
Queue moved from \\FINANCE:HQ:3COM\EPSON to
\\FINANCE:HQ:3COM\LASERJET.
```

Example 2: Moving a print queue using a prompted mode:

```
3P MOVQ ? ↵
Printer Id (PRN:)? ↵
Printer Id (PRN:)? lpt2: ↵
Queue moved from \\Finance:HQ:3Com\LASERJET to
\\Finance:HQ:3com\EPSON.
```

3P RESUME

Resumes printing on the specified printer.

Format

```
3P RESUME [prnid | printername] [/NEW] [/FORM=formnum]  
                                         [/FF[=OFF]]  
                                         [/BANNER[=OFF]]
```

Required Capability

Administrator or server-user

Parameters

prnid

One of the following four printer identifiers: PRN:, LPT1:, LPT2:, or LPT3:. PRN: is the same as LPT1:. This parameter specifies the printer on which you want to resume printing (or linking). The specified printer identifier must have been linked to a printer with the 3P LINK command. If you omit this parameter, the default is PRN:.

printername

The name of the printer as assigned with the 3P SHARE command. If you are unable to link to the printer, you can use the server-user form of this command; specify the printer by name, and allow printing and linking to resume. To use this form of the 3P RESUME command, you must be logged in as the server-user for the server to which the printer is attached.

NEW	Enables others to establish new links to the specified printer. NEW is required only if new links were disabled with the 3P STOP NEW command. Always include this keyword when you use the server-user form of the 3P RESUME command.
<i>formnum</i>	Specifies the type of form in the printer. A form number is any number from 1 through 99. If you omit this, the printer's form number remains unchanged.
FF	Causes a page eject after each spool file is printed. If you use this keyword with the =OFF keyword, no page eject is performed between the printing of spool files. If you omit this keyword, page eject remains as last set.
BANNER	Causes a banner page to be printed at the beginning of each spool file if the owner is different from the owner of the spool file printed before. If you use this keyword with the =OFF keyword, no banner pages are printed. If you omit this keyword, the printing of banner pages remains unchanged.

Remarks

The 3P RESUME command performs the following:

- ▶ Starts a printer that was stopped with the 3P STOP command
- ▶ Permits new links to a printer whose links were disabled with the 3P STOP NEW command
- ▶ Allows or disallows page ejects between print jobs, via the FF option
- ▶ Allows or disallows the printing of a banner page at the beginning of each print job, via the BANNER option
- ▶ Specifies the type of form in the printer, via the FORM=*formnum* option.

If printing was stopped, it restarts with the file that was interrupted. The entire file will be printed regardless of where printing stopped.

If new links were prevented with the 3P STOP NEW command, you must remain linked to the printer until you enable new links, using the 3P RESUME NEW command. Should you unlink from the printer, you must use the server-user form of the 3P RESUME command to enable links to the printer again.

The 3P SET and 3P RESUME commands with the `FORM=formnum` option control the type of form on which a spool file is printed. Every spool file is also assigned a form number, either explicitly with the 3P SET command or implicitly by default. The default form number for spool files is one (1). A spool file will not print unless the printer is assigned the same form number as the spool file.

A printer's initial form number is set during installation. After installation, use the 3P RESUME command to set a printer's form number. Once set, a printer's form number stays set until another 3P RESUME command changes it or the server is restarted. Restarting a server reinstates all the form numbers assigned to the attached printers during installation.

By using the 3P SET, 3P STOP (to stop printing while you change forms), and 3P RESUME commands, you can ensure that each file is printed on the correct form. This requires that your organization establish a correspondence between form numbers (the numbers 1 through 99) and actual forms. You can assign the numbers to forms any way you prefer with one restriction: The default form number for spool files is one. You should make one (1) the form number of the most common form, typically plain paper.

By using the FF and the BANNER options, you can control how individual spool files are separated when printed. The FF option turns page ejects between spool files on (FF) and off (FF=OFF). The BANNER option is specified in the same manner as the FF option and controls the printing of a banner page at the beginning of each spool file. Even with BANNER on, a banner page is printed at the beginning of a spool only if the owner of that spool file is different from the owner of the previously printed spool file and the printer has not paused between printing jobs for the same owner.

The initial setting (**on** or **off**) of both the FF and BANNER options is established during installation. Once changed by the 3P RESUME command, the new setting remains until the server is restarted. When a server is restarted, the settings are reset to the values specified during installation.

You can use the 3P STAT command to see a printer's current form number, FF setting, and BANNER setting. For complete information on the 3P STAT command, see the *3+Share User Guide*.

You must have linked a printer to the specified printer identifier (or the default PRN:) before you can use the 3P RESUME command. Use the 3P LINK command to link to a printer; see the *3+Share User Guide* for information on the 3P LINK command. With the server-user form of the 3P RESUME command (in which you specify the printer by name), you do not need to be linked to the printer.

Examples

Example 1: Restarting the default printer.

```
3P RESUME ◀  
PRN: resumed.
```

Example 2: Permitting new links to a printer.

```
3P RESUME lpt1: /NEW ◀  
\\FINANCE:HQ:3COM\LASERJET resumed.
```

Example 3: Permitting new links to a printer, using a prompted mode.

```
3P RESUME ? ◀  
Printer Id (PRN:)? lpt2:◀  
Allow New Links [Y/N]? y ◀  
Form Number? ◀  
Form Feeds [ON/OFF]? ◀  
Banners [ON/OFF]? ◀  
\\FINANCE:HQ:3COM\EPSON resumed.
```

Example 4: Restarting a printer with invoices, form number 9, and disabling the printing of banner pages.

```
3P RESUME lpt2: /FORM=9 /BANNER=OFF ◀  
\\FINANCE:HQ:3COM\EPSON resumed.
```

Example 5: Permitting new links to a printer to which links were disabled with the 3PSTOP command.

```
3P RESUME Printer1 /NEW ◀  
\\FINANCE:HQ:3COM\LASERJET resumed.
```

Example 6: Permitting new links to a printer to which you cannot link.



NOTE: You must be logged in as the server-user to perform this from of the 3P RESUME command.

```
3P RESUME ? <|
Printer Sharename? epson <|
Printer Id (PRN:)? lpt2:<|
Allow New Links [Y/N]? y <|
Form Number? <|
Form Feeds [ON/OFF]? <|
Banners [ON/OFF]? <|
\\FINANCE:HQ:3COM\EPSON resumed.
```

3P SET

Sets spool file options.

Format

```
3P SET [prnid] /SPOOL=spoolid | * | ALL [/HOLD=[OFF]]
                                         [/COPIES=copies]
                                         [/PRI=priority]
                                         [/DEFER=[OFF]]
                                         [/RELEASE]
                                         [/FORM=formnum]
```

Required Capability

Administrator

Parameters

<i>prnid</i>	One of the following four printer identifiers: PRN:, LPT1:, LPT2:, or LPT3:. PRN: is the same as LPT1:. This parameter specifies the printer whose queue contains the spool file(s) you want to set. The specified printer identifier must have been linked to a printer via the 3P LINK command. If you omit this parameter, the default is PRN:.
<i>hold</i>	Holds the printing of all jobs sent to the printer until you issue either the 3P UNLINK command or the 3P SET HOLD=OFF command.
<i>copies</i>	The number of copies to print of the specified spool file. The range is 1 through 99. The default is 1.

<i>priority</i>	The priority of the specified spool file in the queue. The spool file with the highest priority prints next. Spool files with the same priority print on first-come-first-served basis. The range is 1 through 99; 99 is the highest priority and prints first. The default is 50.
<i>DEFER</i>	Defers printing of the specified spool file until you release the spool file, using the 3P SET command and either the RELEASE or DEFER=OFF option.
<i>RELEASE</i>	Releases the specified spool file for printing. RELEASE is the same as DEFER=OFF.
<i>formnum</i>	Specifies the form required when printing the spool file. The spool file will not print until you use the 3P RESUME command to assign the printer the same formnum. The range of formnum is 1 through 99. The default is 1.
<i>spoolid</i>	Specifies an individual spool file. To determine the spoolid of a spool file, use the 3P QSTAT command. <i>Spoolid</i> is a number that the 3+Share Print service assigns to a spool file when that file is added to the queue.
<i>*</i>	Specifies all of your spool files in the queue for the specified printer.
<i>ALL</i>	Specifies all spool files, yours and everyone else's, in the queue for the specified printer.

Remarks

The 3P SET command sets various options for spool files. The command is a user command with additional capabilities for the administrator. These remarks describe the differences only. For a complete description of the capabilities the 3P SET command provides to any user, see the *3+Share User Guide*.

A user can use the 3P SET command on his own spool files only. An administrator can use the 3P SET command on any spool files regardless of who owns those file(s). An administrator can also use the 3P SET command on all spool files in a given queue at once by specifying ALL in the /SPOOL= parameter. Otherwise, the 3P SET command is the same for administrators and users.

Examples

Example 1: Deferring an entire queue from printing.

```
3P SET lpt2: /SPOOL=ALL /DEFER   
/SPOOL=ALL for \\FINANCE:HQ:3COM\EPSON set.
```

Example 2: Releasing an entire queue for printing.

```
3P SET lpt2: /SPOOL=ALL /RELEASE   
/SPOOL=ALL for \\FINANCE:HQ:3COM\EPSON set.
```

Example 3: Assigning a form number to a spool file.

```
3P SET prn: /SPOOL=23 /FORM=5   
/SPOOL=23 for \\FINANCE:HQ:3COM\LASERJET set.
```

Example 4: Changing the priority of a print job in prompted mode.

```
3P SET ?   
Printer ID (PRN:)?   
Hold [ON/OFF]?   
Copies?   
Priority? 99   
Defer [ON/OFF]?   
Form Number?   
Spool ID? 32   
/SPOOL=32 for \\FINANCE:HQ:3COM\LASERJET set.
```

3P SHARE

Assigns a name to a printer and shares it on the network.

Format

3P SHARE *printername*=*portid* [/PASS=*pass*]

Required Capability

Server-user

Parameters

printername

The name you assign to the printer. This is the name users will specify when they want to link to this printer. A printer name is eight characters or fewer. The name can be composed of letters (A through Z and a through z), digits (0 through 9), the special characters \$&#@!%"()-{}_ , and the international characters supported by the IBM PC.

portid

The printer you are sharing, identified here by the port to which it is attached on the server. The printer port, and thus the printer identifier you should specify above, is determined when the printer is installed. For serial printers, the range of *portid* is COM1: through COM*n*:, where *n* is the number of serial ports on the server. For parallel printers, *portid* is LPT1: or LPT2:.

pass

The password you assign to this printer, if any. Users must supply any such password before they can link to the printer. If you do not assign a password, any user can link to the printer. A printer password can be eight characters or fewer. The allowed characters are: letters (A through Z and a through z), digits (0 through 9), the characters \$&#@!%`()~{}_., and the international characters supported by the IBM PC.

Remarks

The 3P SHARE command assigns a name to a printer and shares it on the network. You can only share printers that are connected to the server for which you are logged in as the server-user. If you want to share a printer on another server, you must first log in as the server-user for that server.

It is important to note that *portid* in this command refers to a particular physical printer port on the server and is not a logical device identifier to which you must link an actual device (as is the *pnid* parameter). The actual port to which a printer is connected, and thus the port identifier you specify in the 3P SHARE command, is determined at the time the printer is installed.

Examples

Example 1: Sharing a printer with no password.

```
3P SHARE laserjet=lpt2: ←  
\\FINANCE:HQ:3COM\LASERJET shared.
```

Example 2: Sharing a printer with a password.

```
3P SHARE epson=com1: /PASS=qtuv <|  
\\FINANCE:HQ:3COM\EPSON shared.
```

Example 3: Sharing a printer with no password using a prompted mode.

```
3P SHARE ? <|  
Printer Sharename? laserjet <|  
Printer ID? prn: <|  
Password? <|  
\\FINANCE:HQ:3COM\LASERJET shared.
```

3P SHUTDOWN

Shuts down the 3+Share File and Print services on the specified server.

Format

3P SHUTDOWN [\\server] [/NEW] [/NP]

Required Capability

Administrator

Parameters

<i>server</i>	The three-part name of the server whose 3+Share File and Print services you want to shut down. If you omit this parameter, the default is your file server.
NEW	Prevents new links to the shared directories and printers on the specified (or default) server. Users with existing links to the shared directories and printers on the specified server can continue to establish new links. This option does not shut down the services or break existing links.
NP	Suppresses the request for verification.

Remarks

The 3P SHUTDOWN command stops the 3+Share File and Print services on a server. It is the same as the 3F SHUTDOWN command described earlier in this chapter. Using either of these commands is the only correct way to stop the File and Print services on a server. Use the 3P SHUTDOWN command whenever you need to stop network operations.

The 3+Name service should always be the last service you shut down. Shut down the network one server at a time, ending with the Name service server. To restart network operations, you must restart each server. Always restart the Name service server first, then restart any remaining servers in any order.

Using the 3P SHUTDOWN command with the NEW option does not shut down the File and Print services; the command just prevents new users from establishing new links. Typically, this form of the 3P SHUTDOWN command is used before a full network shutdown, preventing new links while giving users time to finish work in progress before you shut down the network altogether.

Examples

Example 1: Shutting down the 3+Share File and Print services on a server.

```
3P SHUTDOWN \\server1 ◀  
Shutdown File and Print Server on  
\\FINANCE:HQ:3COM [Y/N]? y ◀  
\\FINANCE:HQ:3COM shutdown.
```

Example 2: Preventing new links to a server.

```
3P SHUTDOWN \\finance /NEW /NP ◀  
New links to \\FINANCE:HQ:3COM disabled.
```

3PSTOP

Stops any printing on the specified printer.

Format

3P STOP [*prnid*] [/LINK] [/NEW]

Required Capability

Administrator

Parameters

<i>prnid</i>	One of the following four printer identifiers: PRN:, LPT1:, LPT2:, or LPT3:. PRN: is the same as LPT1:. This parameter specifies the printer you want to stop. The specified printer identifier must have been linked to a printer with the 3P LINK command. If you omit this parameter, the default is PRN:.
<i>LINK</i>	Breaks any existing links to the printer. Users can still establish new links to the printer. Printing of the spool files continues.
<i>NEW</i>	<p>Prevents new links to the specified printer. It does not break any existing links to the printer. Printing of the spool files continues.</p> <p>To enable new links to the printer again, use the 3P RESUME command with the NEW option.</p>

Remarks

The 3P STOP command allows you to stop printing on the specified printer. The file that was printing is returned to the beginning of the queue, as though it had not started printing. When printing is resumed with the 3P RESUME command, that file will print first from the beginning, regardless of where printing stopped. Users can link to a printer that has been stopped with the 3P STOP command, but no files will print until printing is started with the 3P RESUME command.

A typical use of the 3P STOP command is to stop printing while you change the paper or ribbon. Printing restarts when you issue the 3P RESUME command.

The LINK option breaks all existing links to the printer, including your link. Using the 3P STOP command with the LINK option does not stop the printing of spool files on the printer, and users can still establish new links to the printer. The user software is not informed of the broken links, and therefore errors, such as **NET804** and **NET805**, will occur if the user software attempts to use the broken links. To correct the errors, restart the user's netstation.

The NEW option prevents new links to the printer. Existing links to the printer are not affected. Use this form of the command before taking a printer out of network service; you can prevent users from establishing new links to the printer while allowing users with existing links to finish up in an orderly fashion before you remove the printer from network use altogether.

To enable new links to the printer again, use the 3P RESUME command with the NEW option.

You can use the NEW and LINK options together. This form of the 3P STOP command breaks all links to the printer, including your link, and prevents users from linking to the printer. If you stop a printer and are unable to link to it, you must use the server-user form of the 3P RESUME command to restart the printer. For more information, see the 3P RESUME command earlier in this chapter.

Before you can use the 3P STOP command in any form, you must have linked the specified (or default) printer identifier to a printer by using the 3P LINK command. For information on the 3P LINK command, see the *3+Share User Guide*.

Examples

Example 1: Stopping a printer from printing.

```
3P STOP lpt1: ◀  
\\FINANCE:HQ:3COM\LASERJET stopped.
```

Example 2: Breaking all existing links to the default printer.

```
3P STOP /LINK ◀  
\\FINANCE:HQ:3COM\LASERJET stopped.
```

Example 3: Preventing new links to a printer, using a prompted mode.

```
3P STOP ? ◀  
Printer Id (PRN:)? ◀  
Disallow New Links [Y/N]?y ◀  
Unlink Links [Y/N]?n ◀  
\\FINANCE:HQ:3COM\LASERJET stopped.
```

3P UNLINK

Unlinks a user from the shared directories and printers on the specified server.

Format

3P UNLINK \\user [\\server]

Required Capability

Administrator

Parameters

<i>user</i>	The three-part name of the user you want to unlink.
<i>server</i>	The three-part name of the server from which the user is to be unlinked. If you do not specify a server, the user is unlinked from your default file server.

Remarks

Although the 3P UNLINK command is both a user and an administrator command, these remarks concern the capabilities reserved for administrators. For a complete discussion of capabilities available to all users, see the *3+Share User Guide*.

The 3P UNLINK command breaks any links the specified user has with the shared directories and printers on the specified server. If you do not specify the server, the user is unlinked from your default file server. The user software is not informed of the broken links, and this command therefore causes problems with that user software. To correct the situation, restart the user's netstation.

Example

Unlinking a user from your default file server.

```
3P UNLINK \\fred jones ←
```



CAUTION: This breaks the user's links with both 3+Share File and Print services.

```
Unlink \\Fred Jones:HQ:3Com from  
\\Finance:HQ:3Com [Y/N]? Y ←  
\\Fred Jones:HQ:3Com unlinked from  
\\Finance:HQ:3Com.
```

3P UNSHARE

Deletes a printer's name from the network and makes the printer unavailable for shared use.

Format

3P UNSHARE *printername*

Required Capability

Server-user

Parameters

printername

The name of the printer you want to remove from network use. This is the name you assigned to the printer via the 3P SHARE command. Using this command requires the specified printer not be linked to by any users and that the printer not be printing.

Remarks

The 3P UNSHARE command makes a printer unavailable for shared use on the network and deletes the printer's name from the 3+Share Print service.

Use the 3P UNSHARE command whenever you need to remove a printer from the network. For example, if a printer breaks, remove the printer from the network logically with the 3P UNSHARE command before you physically disconnect the printer from its server. Once it is repaired, you can connect the printer to its server again by using the 3P SHARE command to assign it a sharename and make it available for network use.

The printer you specify in a 3P UNSHARE command cannot be in use. No user can be linked to the printer, and the printer cannot be printing. Use the 3P STOP command to ensure both these conditions. Additionally, the printer's print queue should be empty. You can use the 3P MOVQ command to move any spool files to another print queue, or you can use the 3P DEL command to delete any spool files.

Before you can use the 3P UNSHARE command, you must be logged in as the server-user for the server to which the printer is connected.

Example

Removing a printer from the network logically.

```
3P UNSHARE laserjet ◀  
FINANCE:HQ:3COM\LASERJET unshared.
```

Chapter 8: Glossary

This glossary defines terms used in this guide.

access rights	Attributes you assign to a sharename to control how users access the directory through that sharename.
administrator	A network user who has been assigned administrator capability (capability class A).
alias	Another name for an item entered in the Name service. Aliases are typically nicknames for users. Aliases must be specified as three-part names when three-part names are required.
concurrent server	A personal computer equipped with both 3+Share server software and 3+Share user software. A concurrent server can function simultaneously as a network server and a user workstation.

concurrent user	A user who is working at a server equipped with both user and server software.
directory	A named, logical grouping of entries for other directories and files. Network users can share directories.
domain	A category within an organization; generally a geographical location. Domains are the middle part of the three-part name that uniquely identifies an item on the network.
drive identifier	A single letter followed by a colon (A: through Z:) to which you link a directory. The 3+Share default values are A: through G:. This default range can be increased or decreased using the DOS LASTDRIVE= statement in the CONFIG.SYS file.



NOTE: The limit you set must be reflected in the MSREDIR command line in the AUTOEXEC.BAT or 3PLUS_ON.BAT file with the L parameter as well as in the CONFIG.SYS file.

file service	The software that manages the sharing of directories, files, and disk space on the network.
first-level directory	A directory that is immediately under a server's hard-disk root directory. First-level directories can be shared only by the server-user.

group	A collection of named entries. Groups are typically collections of users on 3+Mail distribution lists.
hexadecimal	A base-16 number system that uses the digits 0 through 9 and the letters A through F. Letters A through F represent numbers 10 through 15 (base 10), respectively.
home directory	A directory created for each network user by 3+Share when that user is added to the Name service. The home directory stores user-created files. General users and administrators have home directories; server-users do not.
initial user	A user who is created by 3+Share at installation so that 3+Share services can be set up and users can be added to the Name service. The initial user is called Admin.
linking	Creating a logical connection between a shared directory or printer on a file server and a drive identifier or printer identifier on your personal computer.
member	An entry within a group.
modem	A device that connects a server or personal computer to a telephone line.
Name service	The software that stores the names of, and information about, users and servers.

network	Two or more personal computers that are physically connected to allow communication and the sharing of resources.
network address	A 12-digit hexadecimal number that uniquely identifies a workstation or server on a network.
network number	A hexadecimal number assigned to each 3+Share package that uniquely identifies each network. A network can have many 3+Share servers, but only use one network number, usually the one assigned to the first 3+Share package installed.
organization	The general category to which a named item on the network belongs. An organization is usually the name of the company where the network resides. You specify an organization as the third part of a three-part name.
output device	A device such as a printer that is attached to a workstation or server and to which the workstation or server sends information.
password	A string of characters that you can assign to your user name or a sharename to control who can access your files. Passwords for user names can be twelve characters or fewer. Passwords for sharenames can be eight characters or fewer.

path	The directory parameter that you specify to get from your current directory or a drive's root directory to another directory or file in the DOS directory structure .
port identifier	A name you use in the 3P SHARE command to tell the Print service the physical port to which a printer is attached. Port identifiers are specified as LPT1:, LPT2:, or LPT3: for parallel printers, or COM1: through COM5: for serial printers.
printer identifier	One of the following names, to which you link a shared printer: PRN: or LPT1:, LPT2:, or LPT3:.
print queue	An ordered list of files waiting to be printed.
print service	The software that manages the network's printers and print queues.
printer sharename	The name a server-user gives a printer when he shares the printer by using the 3P SHARE command. Users specify a printer sharename when they link to a printer.
server	A personal computer or 3Server equipped with 3+ server software. A server manages shared resources on the network.

server-user	A network user who logs in to the network using the name of a server to perform certain functions, such as making printers available to the network.
share list	A collection of the sharenames of directories and printers for the respective server. The File and Print services use the share list during a link procedure to access those shared resources. The data base SHRLIST is kept in the \3PLUS subdirectory and contains this information.
shared directory	A directory that can be used by other users. Directories are made shareable with the 3F SHARE command.
shared printer	A printer that can be accessed by the network users. A printer is shared by the server-user using the 3P SHARE command.
sharename	The name you give a directory when you share the directory. You also specify a sharename to link to someone else's directory.
spool file	A temporary file on the shared printer's server that stores a file sent for printing.
spool ID	The identification number of a file while it is in the print queue.
subdirectory	Any directory that is below another directory in the DOS hierarchical file structure.

three-part name	The name by which the Name service identifies a named part of the network, such as a user or server. Three-part names are divided by colons (:), have the form Name:Domain:Organization, and are limited to 40:20:20 characters, respectively.
3+Share	Server and user software for the 3+ network that consists of the File and Print services.
unlinking	Breaking a logical connection between a shared directory and a drive identifier, or between a shared printer and a printer identifier.
users (general)	Users who use network resources but do not manage the network. Users are assigned the capability class U.
workstation	A personal computer connected to the network and equipped with user software.

Appendix A: The PROFILE.SYS File

The PROFILE.SYS file is an optional file you may want to create for yourself or other users to have various parameters automatically defined for a user. A default PROFILE.SYS file is supplied on your server.

The PROFILE.SYS file can contain 3+Menus parameters as well as other parameters which are useful for everyday operations. The following discussion is divided into two parts: 3+Menus Parameters and General Parameters.



3+Menus Parameters

3+Menus allows you to set a wide variety of parameters to control how menus are displayed on the screen, who can use which selections, and how users access the command bar, among others. There are three categories of parameters:

- ▶ **User environment.** These control which main menu the user can access, how the display is set, and other features.
- ▶ **Main menu capability.** These parameters control user access to network-level features.
- ▶ **Banner screen.** The banner screen is displayed when anyone starts 3+Menus. You can define parameters to alter the product name, company identification, and other components.

User Environment Parameters

ATTRIBUTES

Allows the user to set display attributes that override the DISPLAYTYPE parameter selections. The user can then customize the colors on a color monitor, or change various parts of the screen on a non-standard, non-color monitor.

Format:

ATTRIBUTES=*a,b,c,d,e,f,g,h,i,j,k*

Example

ATTRIBUTES=0,7,57,0,0,28,40,0,0,25,46

Description

For each attribute, substitute a number that relates to the actual setting you want. The letters represent attributes as described in Table A-3 at the end of this appendix.

DISPLAYTYPE

Sets display attributes for different types of video monitors. 3+Menus uses display attributes to emphasize features, currently selected items, and active windows. For contrast between these attributes, this parameter provides preset selections suited to particular monitors. Table A-1 shows the variables to use for each type of monitor.

Format

DISPLAYTYPE=x

Example

DISPLAYTYPE=B

Description

For the value of x, substitute A, B, C, or D, as shown in Table A-1.

Table A-1. DISPLAYTYPE Variables

Variable	Monitor Type
A	IBM Monochrome Adapter
B	IBM Color Graphics Adapter
C	Compaq (color graphics adapter with monochrome monitor)
D	Alternate attribute set

EDIT

Path and name of the editor to use for the EDIT command on the command bar.

Format

EDIT=[*] filename [editor parameters] [::] [editor parameters]

Variables

- *** 3+Menus unloads part of itself from memory and loads the text editor. If this is not specified, 3+Menus loads the text editor and does not unload part of itself unless there is not enough memory; then it will unload part of itself.
- filename* Specifies the text editor you want to load. Can include a path, but need not. 3+Menus searches the PATH variable to locate the program file.
- ::** Tells 3+Menus to fill in the complete path and name of the file you want to edit.
- For editors that do not accept a file name on the command line or require a simple file name with no path, do not use ::. The editor will be loaded without a file name specified and the user will have to specify the name from within the editor.
- editor parameters* Parameters required by the chosen editor which 3+Menus will pass to the editor.

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PROFILE.SYS
File

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Example

EDIT=*WP ::

Remarks

Because DOS cannot pass command line parameters that include embedded blanks, include the EDIT command in a PROFILE.SYS file and do not type it on the command line.

MAINMENU

Path and name of the Main menu file.

Format

MAINMENU=*driveid:\path\menufile.ext*

Example

MAINMENU=D:\NETADMIN.MNI

Remarks

When a user is logged into the network, 3+Menus displays the standard menu selections: Directories and Files, Printer Connections, Shared Directories, and Log In/Log Out on the Main menu. (See also the Main Menu Capability Parameters section for parameters to control user access to these selections.) If the user is not logged in, only the Directories and Files and Log In selections are displayed. If 3+Menus finds no MAINMENU file, the program creates a Main menu containing only the standard selections. (Refer to the section on Main Menu Capability Parameters for further information on customizing the main menu.)

You can use any menu file created by 3+Menus as a main menu. 3Com provides several sample .MNI files customized to be main menus. They are:

NETMAIN.MNI	for network administrators
USERMAIN.MNI	for standard users
MAINMENU.MNI	is a copy of NETMAIN.MNI for ease in installing servers

A

The
PROFILE.SYS
File

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NAME

User's name used as a default for the LOGIN selection

Format

NAME=username

Example

NAME=Fred Jones

or

NAME=Fred Jones:Mktg:3Com

SERVERFILE

Path and name of the file containing the names of the network servers that 3+Menus can access.

Format

SERVERFILE=*driveid:\path\filename*

Example

SERVERFILE=e:\myserver

Remarks

If the network has only one server, there is no need to specify the **SERVERFILE** parameter.

To restrict a user to a single server, do not specify the **SERVERFILE** parameter. The default will then be the user's home server.

On a network that has only a few servers, make the file containing the server names available to all users. When the user opens the Shared Resources window, 3+Menus reads this file to display all the servers available.

For networks with many users, you can establish a separate, unique file containing the server names for each server, or a file containing only the servers you want particular users to access. Then have each user's **PROFILE.SYS** file or command line parameters point to the appropriate file.

SLASHKEY

Character to substitute for the slash key to access the command bar.

Format

SLASHKEY=key

Example

SLASHKEY=+

ZOOM

Set windows to gradually zoom open or pop open.

Format

ZOOM=ON|OFF

Variables

ON The windows gradually zoom open and close.

OFF The windows pop open and close.

Remarks

This parameter does not in any way affect the function of 3+Menus. However, using ZOOM=OFF is somewhat faster than ZOOM=ON. The default is ZOOM=ON.

Main Menu Capability Parameters

These parameters all interact with the setting of the COMMANDS parameter. In all cases, if any of the parameters are specified, their meaning overrides the setting of COMMANDS. If an individual parameter is not set, its default behavior is determined by the COMMANDS setting, whose default is SLASH. The COMMANDS parameter is described next.

COMMANDS

Controls when the command bar is present at the top of the screen.

Format

COMMANDS=ON|SLASH|OFF

Variables

- ON** The command bar is present at all times, [F5] and [Shift]+[F5] are enabled, and all standard menu items appear.
- SLASH** The command bar is displayed when the user presses the slash [/] key, [F5] and [Shift]+[F5] are enabled, and all standard menu items appear.
- OFF** The user cannot use the command bar, cannot use [F5] to exit to DOS, cannot use the standard menu items, and cannot quit 3+Menus.

Remarks

The default is COMMANDS=SLASH.



MENUDEMO

Enables/disables a demonstration mode for 3+Menus.

Format

MENUDEMO=ON|OFF

Variables

ON Enables a demonstration mode for 3+Menus, allows all of 3+Menus capabilities to be demonstrated using the *.DIR files on the distribution diskette, rather than live lists generated by the network. You can get the flavor of 3+ without having a network. Further, even if you have a network, shared resources will still be the frozen dummy values. Only existing links to sharenames will yield real network values, in the Directories and Files window.

OFF 3+Menus is in "live" mode.

Remarks

The default is OFF.

MENUDOS

Allows/disallows access to COMMAND.COM through 3+Menus.

Format

MENUDOS=ON|OFF

Variables

ON Enables [F5] and [Shift]+[F5] allowing the user to access DOS through the menus.

OFF Prevents the user from accessing DOS from 3+Menus.

Remarks

The default value is implied by the value of the COMMANDS parameter. This parameter overrides the action of the COMMANDS parameter.

MENUEFILE

Allows/disallows access to the Directory and Files Main menu selection.

Format

MENUEFILE=ON|OFF|*text*

Example

MENUEFILE=*Your Directories*

Variables

- | | |
|-------------|--|
| ON | Allows the user to access the Directories and Files standard menu selection. |
| OFF | Prevents the user from accessing the Directories and Files standard menu selection. |
| <i>text</i> | Allows the user to access the Directories and Files standard menu selection with the text appearing on the Main Menu in place of the Directories and Files menu selection. |

Remarks

The default value is implied by the value of the COMMANDS parameter. This parameter overrides the action of the COMMANDS parameter.

MENULOGINTEXT

String to replace the Log In string.

Format

MENULOGINTEXT=*text*

Example

MENULOGINTEXT=On the Network

Variable

text Replaces the Login Main menu selection when the user has logged out of 3+Menus and has run 3+Menus locally.

Remarks

If MENULOGOUT has been specified, its value determines if Log In/Log Out appears on the Main menu. If MENULOGOUT has not been specified, but MENULOGINTEXT has, it is equivalent to setting MENULOGOUT=ON.

The default value is implied by the value of the COMMANDS parameter. This parameter overrides the action of the COMMANDS parameter.



MENULOGOUT

Allows/disallows access to the Log Out Main menu selection.

Format

MENULOGOUT=ON|OFF|*text*

Example

MENULOGOUT=Off the Network

Variables

- | | |
|-------------|---|
| ON | The user can access the Log Out standard Main menu selection. |
| OFF | The Log Out standard Main menu item is not displayed. |
| <i>text</i> | Allows the user to access the Log Out standard Main menu selection, with the text appearing on the Main menu in place of the Log Out Main menu selection. |

Remarks

The default value is implied by the value of the COMMANDS parameter. This parameter overrides the action of the COMMANDS parameter.

MENULPTS

Allows/disallows access to the Printer Connections Main menu selection.

Format

MENULPTS=ON|OFF|*text*

Example

MENULPTS=Printing

Variables

ON	The user can access the Printer Connections standard Main menu selection.
OFF	The Printer Connections standard Main menu item is not displayed.
<i>text</i>	Allows the user to access the Printer Connections standard Main menu selection, with the text appearing on the Main menu in place of the Printer Connections Main menu selection.

Remarks

The default value is implied by the value of the COMMANDS parameter. This parameter overrides the action of the COMMANDS parameter.



MENUMAINTEXT

String to display as the Main menu window label.

Format

MAINMENUTEXT=*text*

Example

MAINMENUTEXT=Your Menu

Variable

text The text appears on the Main menu as the window label.

MENUSRVS

Allows/disallows access to the Shared Resources Main menu selection.

Format

MENUSRVS=ON|OFF|*text*

Example

MENUSRVS=Sharenames

Variables

ON	The user can access the Shared Resources standard Main menu selection.
OFF	The Shared Resources standard Main menu item is not displayed.
<i>text</i>	Allows the user to access the Shared Resources standard Main menu selection, with the text appearing on the Main menu in place of the Shared Resources Main menu selection.

Remarks

The default value is implied by the value of the COMMANDS parameter. This parameter overrides the action of the COMMANDS parameter.

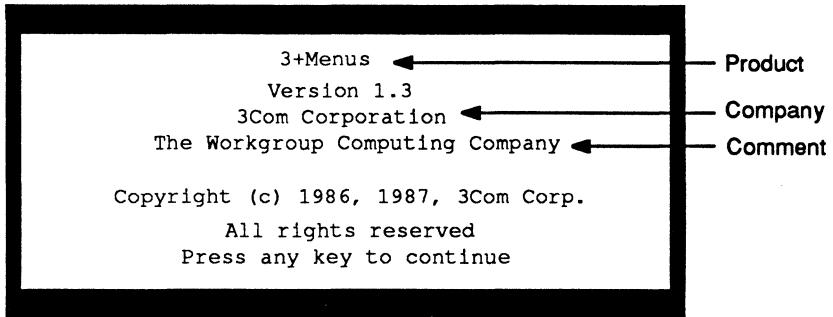
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Banner Screen Parameters

The banner screen appears when you start 3+Menus.



COMMENT

A string that replaces the comment in the banner page when 3+Menus initializes.

Format

COMMENT=*text*

Example

COMMENT=Supplies Unlimited

Remarks

The default value is 3S/400 for the 3Server386. Otherwise, it is The Workgroup Computing Company. If COMPANY has been specified but COMMENT has not, then the default becomes a string of blanks.

COMPANY

A string that replaces the company name in the banner page when 3+Menus initializes.

Format

COMPANY=*companyname*

Example

COMPANY=Wilkins Supply Company

Remarks

The default value is 3Com Corporation.



MENUBANNER

Allows/disallows the display of the banner page.

Format

MENUBANNER=ON|OFF

Variables

ON Displays the banner screen.

OFF Does not display the banner screen.

Remarks

The default is ON.

PRODUCT

String to replace the product name on the banner page.

Format

PRODUCT=*productname*

Example

PRODUCT=New Menus

Remarks

The default value is 3+Menus.

General Parameters

The following parameters are for general use, and are not specific to one application. The time zone parameters are particularly useful for 3+Remote. You will want to add these parameters if the network you are dialing is in a different time zone from yours, and you want your mail messages to reflect the correct time in the message header. You may also want to use the Name parameter, described in the 3+Menus section, so that you will not have to type your name when you log in.

DSTEND

Specifies the month daylight savings time ends, and the last day in the month when daylight savings can end.

Format

DSTEND=*mm-dd*

Example

DSTEND=10-25

Variables

mm A number between 1 and 12 that specifies the month (from 1 for January to 12 for December) when daylight savings time ends in your area. (In the United States, *mm* is always 10. If your area does not observe daylight savings time, you can leave *mm* blank.)

dd A number between 1 and the number of days in the month specified in *mm*. This number specifies the last day in the month when daylight savings time can end. In the United States, this number is always 31. If your area does not observe daylight savings time, you can leave *dd* blank.

Remarks

This parameter is useful for 3+Remote. If it is omitted, the information is supplied by the Name service.

DSTNAME

Specifies whether or not your area observes daylight savings time.

Format

DSTNAME=*dstime*

Variable

dstime

The abbreviation for daylight savings time in your time zone, or is left blank. If it is blank, your area does not observe daylight savings time and the parameters that follow, relating to the beginning and end of daylight savings time, are ignored. See Table A-2 for the abbreviation for daylight savings time in your time zone.

Remarks

This parameter is useful for 3+Remote. If daylight savings time is observed, the parameter specifies the abbreviation for daylight savings time in your time zone. This parameter is optional. If it is omitted, the information is supplied by the Name service.

Table A-2. Time Zone Abbreviations and Offsets

Use table E-1 from the Remote PC User Guide, page E-4.

DSTSTART

Specifies the month daylight savings time begins, and the last day in that month when daylight savings time can begin.

Format

DSTSTART=*mm-dd*

Example

DSTART=4-23

Variables

mm A number between 1 and 12 that specifies the month (from 1 for January to 12 for December) when daylight savings time begins in your area. (In the United States, *mm* is always 4. If your area does not observe daylight savings time, you can leave *mm* blank.)

dd A number between 1 and the number of days in the month specified in *mm*. This number specifies the last day in the month when daylight savings time can begin. In the United States, this number is always 30. If your area does not observe daylight savings time, you can leave *dd* blank.

Remarks

This parameter is useful for 3+Remote. If it is omitted, the information is supplied by the Name service.

PASSWORD

Specifies your password.

Format

PASSWORD=*password*

Example

PASSWORD=balloon

Variable

password Your personal password.

Remarks

This parameter is optional. If it is omitted, you are prompted for a password, if any.

STNAME

Identifies your time zone.

Format

STNAME=*standardtime*

Variable

standardtime

Identifies your time zone. The value you enter is the abbreviation for standard time in your time zone. See Table A-2 for time zone abbreviations.

Remarks

This parameter is useful for 3+Remote. If it is omitted, the information is supplied by the Name service.

TAPESERVER

Defines the name of the server containing the tape backup unit.

Format

TAPESERVER=*servername*

Example

TAPESERVER=aries

Remarks

This parameter is specific to 3+Backup, and places the server name on all menus with the field "Tape backup unit is on server.."

TIME

Determines whether your personal computer's time is to be set locally or by the Name service.

Format

TIME=ON|OFF

Variables

ON Your personal computer's time is set by the Name service.

OFF You can set your personal computer's time with the DOS TIME command or with a program from a real-time clock. If you want the correct local time to be set for your personal computer, use the DOS TIME command, or include it in your AUTOEXEC.BAT file.

Remarks

This parameter is useful for 3+Remote. If it is omitted, the time is set by the Name service.

ZONE

Specifies the number of minutes your time zone is removed from Greenwich Mean Time.

Format

ZONE=*minutes*

Variable

minutes

The number of minutes that your time zone is offset from Greenwich Mean Time. The value is negative for time zones west of Greenwich Mean Time, and positive for time zones to the east. See Table A-2 for time zones and their offsets.

Remarks

This parameter is useful for 3+Remote. If it is omitted, the information is supplied by the Name service.

The following table lists the decimal values of display attributes for the IBM Color Graphics Adapter. Users with other display configurations may find that other integers work to do different things. Adding 128 to any of the integer values adds a blinking feature to the video attributes.

Table A-3. Color/Screen Attributes

ATTRIBUTE VALUE	COLOR BACKGROUND	COLOR FOREGROUND	MONOCHROME DISPLAY	MONOCHROME ADAPTER
1	Black	Blue		Underline
2	Black	Green		Normal
3	Black	Light Blue		Normal
4	Black	Red		Normal
5	Black	Magenta		Normal
6	Black	Orange		Normal
7	Black	White		Normal
8	DON'T USE			Normal
9	Black	Blue		Highlighted Underline
10	Black	Green		Highlighted
11	Black	Light Blue		Highlighted
12	Black	Red		Highlighted
13	Black	Magenta		Highlighted
14	Black	Orange		Highlighted
15	Black	White		Highlighted
16	Blue	Black		Normal
17	DON'T USE			Underline
18	Blue	Green		Normal
19	Blue	Light Green		Normal
20	Blue	Red		Normal
21	Blue	Magenta		Normal
22	Blue	Orange		Normal
23	Blue	White		Normal
24	Blue	Black		Highlighted
25	DON'T USE			

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ATTRIBUTE VALUE	COLOR		MONOCHROME DISPLAY	ADAPTER
	BACKGROUND	FOREGROUND		
26	Blue	Green	Highlighted	
27	Blue	Light Blue	Highlighted	
28	Blue	Red	Highlighted	
29	Blue	Magenta	Highlighted	
30	Blue	Orange/Yellow	Highlighted	
31	Blue	White	Highlighted	
32	Green	Black	Normal	
33	Green	Blue	Underline	
34	DON'T USE	Normal		
35	Green	Light Blue	Normal	
36	Green	Red	Normal	
37	Green	Magenta	Normal	
38	Green	Orange	Normal	
39	Green	White	Normal	
40	Green	Black	Highlighted	
41	Green	Blue	Highlighted Underline	
42	DON'T USE			
43	Green	Light Blue	Highlighted	
44	Green	Red	Highlighted	
45	Green	Magenta	Highlighted	
46	Green	Orange/Yellow	Highlighted	
47	Green	White	Highlighted	
48	Light Blue	Black	Normal	
49	Light Blue	Blue	Underline	
50	Light Blue	Green	Normal	
51	DON'T USE		Normal	
52	Light Blue	Red	Normal	
53	Light Blue	Magenta	Normal	
54	Light Blue	Orange	Normal	
55	Light Blue	White	Normal	
56	Light Blue	Black	Highlighted	
57	Light Blue	Blue	Highlighted Underline	
58	Light Blue	Green	Highlighted	
59	DON'T USE			
60	Light Blue	Red	Highlighted	
61	Light Blue	Magenta	Highlighted	
62	Light Blue	Orange/Yellow	Highlighted	

ATTRIBUTE VALUE	COLOR		MONOCHROME	
	BACKGROUND	FOREGROUND	DISPLAY	ADAPTER

63	Light Blue	White	Highlighted	
64	Red	Black	Normal	
65	Red	Blue	Underline	
66	Red	Green	Normal	
67	Red	Light Blue	Normal	
68	DON'T USE		Normal	
69	Red	Magenta	Normal	
70	Red	Orange	Normal	
71	Red	White	Normal	
72	Red	Black	Highlighted	
73	Red	Blue	Highlighted Underline	
74	Red	Green	Highlighted	
75	Red	Light Blue	Highlighted	
76	DON'T USE			
77	Red	Magenta	Highlighted	
78	Red	Orange/Yellow	Highlighted	
79	Red	White	Highlighted	
80	Magenta	Black	Normal	
81	Magenta	Blue	Underline	
82	Magenta	Green	Normal	
83	Magenta	Light Blue	Normal	
84	Magenta	Red	Normal	
85	DON'T USE		Normal	
86	Magenta	Orange	Normal	
87	Magenta	White	Normal	
88	Magenta	Black	Highlighted	
89	Magenta	Blue	Highlighted Underline	
90	Magenta	Green	Highlighted	
91	Magenta	Light Blue	Highlighted	
92	Magenta	Red	Highlighted	
93	DON'T USE			
94	Magenta	Orange/Yellow	Highlighted	
95	Magenta	White	Highlighted	
96	Orange	Black	Normal	
97	Orange	Blue	Underline	
98	Orange	Green	Normal	
99	Orange	Light Blue	Normal	

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ATTRIBUTE VALUE	COLOR BACKGROUND	FOREGROUND	MONOCHROME DISPLAY	ADAPTER
100	Orange	Red	Normal	
101	Orange	Magenta	Normal	
102	DON'T USE			
103	Orange	White	Normal	
104	Orange	Black	Highlighted	
105	Orange	Blue	Highlighted	Underline
106	Orange	Green	Highlighted	
107	Orange	Light Blue	Highlighted	
108	Orange	Red	Highlighted	
109	Orange	Magenta	Highlighted	
110	DON'T USE			
111	Orange	White	Highlighted	
112	White	Black	Reverse Video	
113	White	Blue	Underline	
114	White	Green	Normal	
115	White	Light Blue	Normal	
116	White	Red	Normal	
117	White	Magenta	Normal	
118	White	Orange	Normal	
119	DON'T USE			
120	White	Black	Reverse Video	
121	White	Blue	Highlighted	Underline
122	White	Green	Highlighted	
123	White	Light Blue	Highlighted	
124	White	Red	Highlighted	
125	White	Magenta	Highlighted	
126	White	Orange/Yellow	Highlighted	
127	DON'T USE			

Appendix B: NetStation Configuration Files

This appendix discusses netstation configuration files. These files are used to automatically configure a netstation's environment.

The information in this appendix applies to 3+Share version 1.3 only. For version 1.2.1, refer to Appendix D in the *3+ Installation and Configuration Guide*.

General Information

When a user turns on or resets a netstation, a special sequence of commands must be performed before the user can access the network resources. The commands, consisting of both DOS and 3+Share commands, are used to establish communications between the netstation and the network and to customize the netstation environment for the individual needs of the user.

The execution of the commands is referred to as configuring a netstation's environment. Some 3+Share commands are used only in this procedure. An example is RUNMINDS, which binds the netstation's network drivers together. Other configuration commands are used more frequently, such as 3F LINK and 3P LINK commands.

The netstation configuration commands are stored in special files, referred to as configuration files. Each user has a set of configuration files. If the files are created properly, a user will not have to issue any additional commands when the netstation is turned on. The files will establish communications between the netstation and the network and link the necessary sharenames and printers. All the user has to do is start to work.

A user typically has five configuration files:

- ▶ PROFILE.SYS
- ▶ CONFIG.SYS
- ▶ AUTOEXEC.BAT
- ▶ START.BAT
- ▶ AUTOUSER.BAT

Table B-1 lists the file locations and functions.

Table B-1. Configuration File Location and Functions

File	Location	Functions
PROFILE.SYS	Home directory	<ul style="list-style-type: none"> ▶ Customizes the netstation for 3+Menus
CONFIG.SYS	Startup disk or start volume	<ul style="list-style-type: none"> ▶ Loads the device driver for the network adaptor in the netstation ▶ Allocates the processor time between user and background processes ▶ Loads the Internet Datagram and Sequenced Packet Protocol drivers ▶ Loads the Buffer and Login Library managers ▶ Defines the number of disk buffers ▶ Defines the maximum number of file handles ▶ Sets the number of drive identifiers ▶ Sets the netstation's time and date format ▶ Loads the Epath driver for EtherSeries servers
AUTOEXEC.BAT	Startup disk or start volume	<ul style="list-style-type: none"> ▶ Loads NETBIOS ▶ Binds the MINDS drivers ▶ Loads the interrupt interface ▶ Loads the redirector ▶ Sets the machine name ▶ Loads a program to close spool files ▶ Sets the RAM disk size

**Table B-1. Configuration File Location and Functions
(Continued)**

File	Location	Functions
		<ul style="list-style-type: none">▶ Specifies international keyboard▶ Executes the START.BAT batch file
START.BAT	Startup disk or start volume	<ul style="list-style-type: none">▶ Executes the LOGIN command▶ Links the /APPS sharename to drive D:▶ Links the home directory to drive E:▶ Executes the AUTOUSER.BAT batch file
AUTOUSER.BAT	Home Directory	<ul style="list-style-type: none">▶ Defines type of monitor▶ Sets location of PROFILE.SYS file▶ Links to shared directories▶ Links to shared printers▶ Sets DOS prompt▶ Executes the RECVMSG command▶ Sets paths▶ Sets the RAM disk environment▶ Executes the MENUS program



NOTE: The PROFILE.SYS file is not explained in this appendix. For information on the PROFILE.SYS file, refer to Appendix A.

A server also has configuration files. The files are:

- ▶ CONFIG.SYS
- ▶ 3PLUS_ON.BAT
- ▶ AUTOEXEC.BAT

For information on server configuration files, refer to the *3+ Network Tuning Guide*.

How Configuration Files are Made

You, the network administrator, are responsible for creating a user's configuration files. A generic version of each file comes with 3+Share that you can modify for each user, as necessary.

You can modify a configuration file with almost any word processor or text editor, as long as the processor does not insert special codes into the file. Each processor and editor handles this a little differently. For example, WordStar refers to a file without codes as a non-document file, while Word Perfect uses the term DOS text file. For instructions on how to modify such a file with your word processor or text editor, refer to your documentation.

The remainder of this appendix contains examples of the configuration files. Suggestions on how to modify the files to improve the server or netstation performance is also provided.

The CONFIG.SYS File

When you create a startup diskette for a netstation, the installation program creates a CONFIG.SYS file. An example of one is shown below.

```
device=\3drivers\eth.sys
device=\3drivers\pro.sys 12 2 2
device=\3drivers\buf.sys
device=\3drivers\idp.sys
device=\3drivers\spp.sys
device=\3drivers\lg1.sys
device=\3drivers\epath.sys
buffers=6
files=20
lastdrive=g
country=x
```

Each line in the file has a specific function. These functions are explained below, along with any parameters that can be changed to support your particular configuration.

DEVICE=\3DRIVERS\ETH.SYS

Loads the device driver for the network adapter installed in the netstation. The exact wording of the line depends on the type of network adapter or medium being used.

Format

DEVICE=\3DRIVERS*driver parameters*

Parameters

driver

is the driver for the network medium taken from Table B-2.

Table B-2. Netstation Device Drivers

Network Adapter/Medium	Device Driver
EtherLink	eth.sys
EtherLink II	eth503.sys
EtherLink Plus	eth505.sys
EtherLink/MC	eth523.sys
3Station	eth1100.sys
IBM Token Ring	tokibm.sys
TokenLink	tok603.sys
TokenLink Plus	tok605.sys

parameters

specifies the DMA channel, interrupt request line, and I/O base address. For a detailed description of the parameters and how they are entered on this command line, refer to the hardware installation manual that came with the network adapter.

DEVICE=\3DRIVERS\PRO.SYS

Allocates the processor time between user (DOS) and background processes. Parameters are always specified for this driver. Each parameter must be separated from the next by a space.



CAUTION: If incorrect parameter values are specified, the system will not function properly.

Format

DEVICE=\3DRIVERS\PRO.SYS *processes user services*

Parameters

- | | |
|------------------|---|
| <i>processes</i> | The maximum number of separate processes that the system can manage at once. Each process requires 38 bytes of memory. The range is from 4 to 64. Normally, there is no need to change the value from the default of 12 on a netstation, 40 on a server. |
| <i>user</i> | The amount of time (measured in timer clock ticks) spent performing tasks for the user before switching to background processes. Each timer clock tick lasts .055 seconds. The range is from 0 to 255. For normal operation of a netstation, 0 should never be specified; setting this parameter to 0 impairs keyboard input. The default is 2 on a netstation and server. |
| <i>services</i> | The amount of time (measured in timer clock ticks) spent performing tasks for the background processes before switching to user processes. Each timer clock tick lasts .055 seconds. The range is from 0 to 255. For normal operation of a netstation, 0 should never be specified; setting this parameter to 0 impairs keyboard input. The default is 2 on both netstation and server. |

DEVICE=\3DRIVERS\BUF.SYS

Load the Buffer manager used internally by 3+.

Format

DEVICE=\3DRIVER\BUF.SYS

Remarks

There are no parameters associated with this driver.

DEVICE=\DRIVERS\IDP.SYS

The Internet Datagram Protocol driver used internally by 3+.

Format

DEVICE=\DRIVERS\IDP.SYS

Remarks

There are no parameters for this driver.

DEVICE=\3DRIVERS\SPP.SYS

The Sequenced Packet Protocol driver used internally by 3+.

Format

DEVICE=\3DRIVERS\SPP.SYS

Remarks

There are no parameters for this driver.

DEVICE=\3DRIVERS\LGL.SYS

The Login Library manager used internally by 3+.

Format

DEVICE=\3DRIVERS\LGL.SYS -*mn*

Parameters

-*mn* Specifies the maximum number of servers addressed during one session. The range is 4 to 50. If no parameter is assigned, the default is 8.

Remarks

Each time a 3F or 3P LINK, 3F or 3P DIR, or 3N ASSIGN command is issued, an entry is made in the Login Library. If the number of entries exceeds the maximum set with the *n* parameter, the error message **Internal error** is displayed. Rebooting the netstation clears all entries in the current login Library name map. Each map entry requires 88 bytes of netstation memory.

DEVICE=\3DRIVERS\EPATH

Loads the driver for a netstation connected to an EtherSeries network. Not included in a CONFIG.SYS file for netstations on a 3+ network.

Format

DEVICE=\3DRIVERS\EPATH

Remarks

There are no parameters associated with this driver.

BUFFERS

Specifies the number of disk buffers used by DOS to temporarily hold data being written to, or read from a local disk drive.

Format

BUFFERS=*n*

Parameters

n specifies the number of disk buffers. The default setting depends on the type of netstation or server used.

Remarks

Each additional buffer requires 512 bytes of memory or whatever is your maximum sector size. Refer to your DOS manual for more information.

FILES

Specifies the maximum number of file handles that DOS will allow to be open at the same time.

Format

FILES=*n*

Parameters

n specifies the maximum number of file handles. The default setting depends on the type of netstation or server used.

Remarks

Each file requires 48 bytes of memory. Refer to your DOS manual for more information.

LASTDRIVE

Specifies the number of drive identifiers available to the user at the netstation. This parameter applies only to netstations.

Format

LASTDRIVE=*letter*

Parameters

Letter The last drive identifier that can be used at the netstation. The default for the AUTOEXEC.BAT file is G:, meaning the user can access the drive identifiers A: through G:, but not H: or higher. The range is A: through Z:. If this command is omitted from the file, the default is E:.

Remarks

Increasing the number of available drive identifiers may necessitate editing the AUTOEXEC.BAT file. If the error message **Too many redirections** is returned, increase the /L parameter (number of links) on the MSREDIR line of AUTOEXEC.BAT. For further information on the LASTDRIVE command, refer to your DOS reference guide.

COUNTRY

Sets the netstation's currency, time, and date formats to the country conventions. This line is added to the batch file by the MAKEINTL installation program, but not by the MAKEDISK program.

Format

COUNTRY=x

Parameters

x is the country code. For a list of country codes and other parameters associated with this command, refer to your DOS reference guide.

Remarks

The country command is intended to work with DOS 3.3. If the startup disk has a different version of DOS, replace this command with a version consistent with the disk's version of DOS.

The AUTOEXEC.BAT File

When you run the MAKEDISK or MAKEINTL program to create a netstation startup disk, the program creates an AUTOEXEC.BAT file on the startup disk. This file is similar to the following:

```
echo off
echo 3+ Workstation Startup batch file - Ver 1.3
\3drivers\runminds mindspro mindsbu mindseth mindsidp mindsspp mindslgl
NetBIOS or nb
minses12 or minses
msredir /z:4096
setname $$3com$$
prtsc
keyb nn or If exist START.BAT start
```

Each line in the file has a specific function. These functions are explained below, along with any parameters that can be changed to support your particular netstation configuration.

ECHO OFF

Prevents commands from printing on the screen while the batch file is being executed.

Format

ECHO OFF

Parameters

There are no parameters associated with this command.

ECHO 3+ Netstation...

Prints the title of the batch file on the screen.

Format

ECHO 3+ Netstation ...

Parameters

There are no parameters associated with this command.

\3DRIVERS\RUNMINDS

RUNMINDS binds MINDS (MS-DOS Internal Network Driver Scheme) drivers together so they can call one another.

Format

\3drivers\runminds mindspro mindsbuf mindseth mindsldp mindsspp mindslgl

Remarks

The names of the individual MINDS drivers are listed after the RUNMINDS command and must be on the same line.

NETBIOS

Loads the full implementation of the NetBIOS option.

Format

NETBIOS *parameters*

Parameters

For complete details on NetBIOS parameters, refer to the 3+ *NetBIOS Supplement*.

Remarks

When you create a startup disk, you are given the option of installing either the full implementation of NetBIOS, or the standard configuration, referred to as **nb**. If you choose the full implementation, this line is added to the batch file.

NB

Loads the short configuration (also referred to as the standard configuration) of NETBIOS.

Format

NB sessions transbuf recbuf retdisp lcltime rmttime

Parameters

- | | |
|-----------------|---|
| <i>sessions</i> | The number of sessions that can be initiated at one time. A session is a communications path between the netstation and a server. When a user links to a shared directory or printer, a session is established with the server.

Once established, a single session can support multiple shared directory and printer links. The value should agree with the /S (session) value in the MSREDIR command. Each session requires 1688 bytes of memory. The range is 1 to 32. The default is 2. |
| <i>transbuf</i> | The number of transmit buffers. Each buffer requires 320 bytes of memory. The range is 1 to the number of links (/L) in the MSREDIR command times 2. The default is 4. |
| <i>recbuf</i> | The number of receive buffers. Each buffer requires 1688 bytes of memory. The range is 1 to the number of links (/L) in the MSREDIR command times 2. The default is 4. |

- retdisp* The retry display mode. When set to 1, the netstation will "beep" instead of displaying a retry message at the bottom of the screen should a network timeout occur. If no setting is specified, a message is displayed at the bottom of the screen. The default is no specified setting.
- lcltime* The local timeout value. It specifies the time, in seconds, that the network will retry an operation without operator intervention for a local netstation (one connected to the server via network cable). Setting this option higher makes retrying easy on the operator, but can give the impression the network is slow. The default is 15 seconds.
- rmttime* The remote timeout. It specifies the time, in seconds, that the network will retry an operation without operator intervention for a remote netstation (one connected to the server via a modem). This setting should be higher than lcltime to ensure reliable communications. The default is 90 seconds.

Remarks

When you create a startup disk, you have the option of installing either the full implementation of NetBIOS or the standard configuration. If you choose the standard implementation, this line is added to the batch file.

Parameters may be set to indicate the maximum number of sessions, packet transmit buffers, and packet receive buffers supported on your machine. Additional parameters allow you to specify the retry display mode, local and remote timeout values.

Normally, no parameters are specified, causing the default values to be used. The NB parameters interact with those specified for MSREDIR (see below).

Parameters are identified by their location. Using the letter x in place of a parameter's value will cause the default value to be accepted. Default values will also be accepted for parameters omitted at the end of the line. For example, if you want to change only the number of sessions and the retry display mode parameters, the line will read:

```
nb 4 x x 1
```

The transmit and receive buffers, and local and remote timeout values all remain at the default values.

MINSES12

Loads the interrupt interface for the redirector if you specified the entire version of NETBIOS when you created the startup disk.

Format

MINSES12

Remarks

There are no parameters associated with this command.

MINSES

Loads the interrupt interface for the redirector if you specified the short version of NETBIOS when you created the startup disk.

Format

MINSES

Remarks

There are no parameters associated with this line.

MSREDIR

Loads the Microsoft Redirector.

Format

MSREDIR [/parameter:value] [... /parameter:value]

Parameters

parameter

A letter that identifies the parameter. Valid entries are: S, L, Px, B, and Z.

value

One or more integers specifying the value of the parameter.

- S** The number of sessions that can be supported at one time. A session is a communications path between a server and a netstation. When a user links to a shared directory or printer, a session is established with the server. Once established, a single session can support multiple shared directory and printer links. The value should agree with the sessions value in the NB command. Each session requires 70 bytes of memory. The range is 1 to 32. The default is 2.
- L** The number of links that can be supported at one time. A "link" is a logical connection (redirection) between a shared directory or printer on a server, and a drive or printer identifier on a netstation. The value specified for this parameter governs the number of shared directory and printer links the user can establish at one time. Each link requires 90 bytes of memory. The range is 1 to 32. The default is 5.

- Px** The local printer buffer size, in bytes, and printer number. The *x* specifies the printer for which you are setting buffers. This determines the maximum amount of information that will be buffered at the netstation before the job is sent to the server to be placed in the print queue. The value of *x* can be: 1 for a printer linked to LPT1: (or PRN:), 2 for LPT2:, or 3 for LPT3:. For example, /P1:256 sets a buffer size of 256 bytes for the printer linked to LPT1:. The range is 80 to 10240 bytes. The default is 128 bytes.
- B** The number of redirector buffers allocated to the netstation. The setting of this parameter should be based on the typical type of transaction to be performed on the netstation. If the average transaction consists of large file transfers, setting this parameter to a larger value may improve performance. The range is 1 to 15. The default is 3.
- Z** The size of redirector buffers. This value should be the same as the 3+Share server's message buffer size less 48 bytes. For example, if the 3+Share server has a message buffer size of 5680 bytes, this parameter should be set at 5632 (5680 - 48). The value can be 1024, 2560, 4096, 5632, 7168, or 8192 bytes. The default is 4096 bytes.

Remarks

The expression */parameter:value* can be repeated as often as required. Each group, */parameter:value*, must be separated from the next group by one space and cannot include any blanks. Parameters omitted from the MSREDIR command assume their default values.

SETNAME

Loads the IBM machine name.

Format

SETNAME \$\$3com\$\$

Remarks

3+ does not require you to set the name on the SETNAME line to a value other than the default \$\$3com\$\$\$. However, this "IBM Machine Name" is used by certain multiuser applications, such as dBASE III Plus, for licensing or logged-in user reporting. 3Com recommends that you set this name to the first name, last initial alias (spaces cannot be used) for each user.

PRTSC

Loads the program that allows the combination of [Ctrl]+[Alt]+[Prtsc] to close spool files.

Format

PRTSC

Remarks

Some applications do not send a DOS CLOSE call when a job has finished spooling. For the Print service to recognize that the job is ready to print, you must use [Ctrl]+[Alt]+[Prtsc] to close the spool file.

On newer IBM AT keyboards, use the combination [Ctrl]+[Alt]+[*] (where the * is the key located directly above the 9 on the numeric keypad) instead of [Ctrl]+[Alt]+[Prtsc].

KEYB

Designates the keyboard format of the netstation.

Format

KEYBxx

Parameters

xx is a two-letter country code from Table B-3.

Table B-3. Country Code

Code	Country	Code	Country
us	United States*	sf	Swiss-French
fr	France	df	Denmark
gr	Germany	be	Belgium
it	Italy	nl	Netherlands
sp	Spain	no	Norway
uk	United Kingdom	la	Latin America
po	Portugal	sv	Sweden
sg	Swiss-German	su	Finland

(* default)

Remarks

The MAKEINTL program adds this line for support of international keyboards. This line is not added to the batch file if you use MAKEDISK.

The KEYB command is intended to work with DOS 3.3. If the startup disk has a different version of DOS, replace this command and its associated files with versions consistent with the disk's version of DOS.

IF EXIST START.BAT START

Loads the START.BAT batch file.

Format

IF EXIST START.BAT START

Remarks

This command calls up the next batch file of the configuration process. The file, called START.BAT, logs the user into the network.

If the disk is an international startup disk created with the MAKEINTL program, the batch file will not contain this command. This is because MAKEINTL assumes that the disk does not have enough space for the START.BAT file.

What we recommend is after you create an international startup disk, determine the amount of empty space on it with the DIR command. If there are 2500 bytes of space remaining, copy the master copy of the START.BAT file from the \APPS directory onto the startup diskette. Then add this command line to the end of the AUTOUSER.BAT file.

If the startup disk does not have enough room, delete a file from the disk or add the START.BAT commands directly to the end of the AUTOEXEC.BAT file.

The START.BAT File

When you run MAKEDISK, you have the option to copy the START.BAT file onto the startup disk. The commands in this file log the user onto the network and link the netstation to the /APPS sharename and the user's home directory. In most situations, you will want to copy the file onto the startup disk to eliminate the need of having to create the file yourself.

The batch file is divided into sections. Each section contains one or more commands that perform a specific part of the configuration process. The function of each section is explained below, along with any parameters that can be changed to support your particular netstation configuration. Comment lines and error messages are not included in the following discussions.



NOTE: We do not recommend that you change any lines in this file.

Clearing Paths

Clears previously set paths.

Format

SET PATH=

SET PROFILE=

Remarks

The first command clears previously set path assignments. The second clears the location of the PROFILE.SYS file.

Logging In

Logs in the user.

Format

LOGIN [[\\]*username* [/PASS=*password*]

Parameters

For a description of the LOGIN parameters, refer to your 3+Share User Guide.

Remarks

The default is the LOGIN command without username or password. If the START.BAT is on a startup disk, you can add the user's name to the command to eliminate the user needing to enter it. The user's password can also be added to the command, but this is not recommended. To maintain network security, a user should enter a password as a normal part of the login procedure.

If this batch file is in a start volume, do not add a name to the LOGIN command. Start volumes are typically used by many users and each should enter his or her own username.

Linking to the \APPS and Home Directories

Links the \APPS directory to drive D: and the user's home directory to drive E:.

Format

3F LINK D: \\SYS\APPS /NP LINK E: /NP

Remarks

If the /APPS directory is not on the same server as the user's home directory, edit the line accordingly. For example, if the /APPS directory is on the SALES server, but the user's home directory is not, the line should read:

```
3f link d: \\sales\apps /np; link e: /np
```

Do not add any additional links here. Instead, add them to the user's AUTOUSER.BAT file in the user's home directory.

Starting AUTOUSER.BAT

Executes the final configuration file, AUTOUSER.BAT.

Format

e:
autouser

Remarks

The first command changes the current drive to drive E:, the user's home directory. The second command executes the AUTOUSER.BAT file. For details to the AUTOUSER.BAT file, refer to the next section.

The AUTOUSER.BAT File

The AUTOUSER file is the last of the configuration batch files. Located in a user's home directory, it executes after START.BAT and performs the majority of the configuration tasks. The tasks include:

- ▶ Defining the monitor type
- ▶ Setting the PROFILE.SYS file
- ▶ Setting the DOS Prompt
- ▶ Linking to sharenames
- ▶ Linking to printers
- ▶ Starting Mail Minder
- ▶ Starting the Receive Message Program
- ▶ Checking the System Variables
- ▶ Setting Paths
- ▶ RAM disk environment

The batch file is divided into sections. Each section contains one or more commands that perform a specific part of the configuration process. The function of each section is explained below, along with any parameters that can be changed to support your particular netstation configuration. Comment lines and error messages are not included in the following discussions.

Defining the Monitor Type

Defines the type of video monitor being used by the netstation.

Format

SET TERM=*parameter*

Parameters

parameter is one of the following:

COLOR	Enhanced Graphics Adaptor (EGA) or Color Graphics Adaptor (CGA) display.
MONO	IBM monochrome (non-graphics) display.
MONOGRPH	Monochrome, graphics display.

Remarks

This parameter is set by the UCONFIG program, but you should check to be sure it is correct. If you change the command, use all capital letters.

Setting the PROFILE.SYS File

Sets the location of the PROFILE.SYS file.

Format

SET PROFILE=*drive id*:[*path*]PROFILE.SYS

Remarks

The PROFILE.SYS file is optional. When you are using 3+Menus, a PROFILE.SYS file lets you customize the netstation environment to accommodate special screen types and colors, or to utilize special 3+Menu files. For complete details on the PROFILE.SYS file, refer to Appendix A.

The default command, shown below, assumes that the PROFILE.SYS file is in the user's home directory on drive E:.

SET PROFILE=e:\profile.sys

The file should not be renamed, although it may be relocated if the statement is appropriately modified.

If the user does not have a PROFILE.SYS file, insert two colons (::) in front of the command. Otherwise an error message is displayed when the user starts 3+Menus.

Setting the DOS Prompt

Sets the format of the DOS prompt.

Format

PROMPT parameters

Parameters

For an explanation of the PROMPT parameters, refer to your DOS reference manual.

Remarks

The default command, shown below, displays the directory path along with the drive identifier.

PROMPT \$P\$G

Linking to Directories

Links shared directories with the 3F LINK command.

Format

3F LINK *drive id*: [*username* | *servername*[\]] [*sharename*]
[/PASS=*password*]/[NP]

Parameters

For an explanation of 3F LINK parameters, refer to your *3+Share User Guide*.

Remarks

Rather than have the user link to shared directories after logging in, add the appropriate 3F LINK commands here and have the links executed automatically. You can add as many link commands as necessary. If there is not enough room, simply insert additional lines.

Linking to Printers

Links shared printers with the 3P LINK command.

Format

3P LINK [*prnid*:[\servername\])*printersharename*
[/PASS=*password*] [/NP]

Parameters

For a detailed description of the 3P LINK parameters, refer to the *3+Share User Guide*.

Remarks

This section of the batch file is for the 3P LINK command and links to shared printers. An example of a 3P LINK command is included in the section and looks similar to the following:

```
::D:\3P link \\sys\laserjet /np
```

In the example, a shared printer called LASERJET at the home server is linked to printer identifier PRN:. To link a shared printer on your network, edit the line by removing the two colons from the beginning of the command and entering the necessary information. For example, to link a shared printer called DOTMAT on the server SALES to the LPT2: printer identifier, you would edit the line to read:

```
D: \3P link lpt2: \\sales\dotmat /np
```

Additional 3P LINK commands can be added at this point in the batch file to link to more than one shared printer. For complete information on the 3P LINK commands, refer to the *3+Share User Guide*.

Starting 3+Mail Minder

The commands in this section start Mail Minder.

Format

```
::CLS  
::IF NOT EXIST D:\MMINDER.EXE GOTO NO_MM  
::D:\MMINDER > NUL:  
::ECHO  
.  
.  
.  
::ECHO
```

Parameters

Refer to the *3+Mail User Guide* for details on the 3+Mail Minder program parameters.

Remarks

With Mail Minder, a message is displayed on the netstation screen when the user receives new mail. Naturally, if your network does not have 3+Mail, leave this feature disabled, which is the default.

To enable Mail Minder, remove the two colons (::) from the fourteen command lines, starting with '::cls' and ending with '::echo.' If you later decide to disable the program, insert the colons (::) again.

The commands assume that Mail Minder is stored in the \APPS directory, which is linked to drive D: on the netstation. If this is not true for your network configuration, you must edit the following two lines accordingly:

```
if not exist d:\mminder.exe goto no__mm  
D:\MMINDER > NUL:
```

For example, if /APPS is linked to drive F:, edit the lines to read:

```
if not exist f:\mminder.exe goto no__mm  
F:MMINDER > NUL:
```

Starting the Receive Message Program

Executes the Receive Messages command (RCVMSG).

Format

```
D:\RCVMSG >NUL
```

Remarks

The Receive Message command (RCVMSG) allows the user to receive messages sent by other users with the SENDMSG command. The parameters associated with this command are discussed in Chapter 5 in the section titled "Sending and Receiving Network Messages."

Checking System Variables

Ensures that the system variables are set correctly.

Format

:PROCHECK

.

.

.

:STDSTART

Remarks

Do not change any of the commands IN this section.

Setting Paths

Sets paths and starts 3+Menus. The commands in this part of the file are executed only if the netstation does not have a RAM disk.

Format

PATH D:;\;D:\MENUS;D:\DOS

MENUS

Remarks

The PATH command assigns the paths for the netstation. The default command assigns paths to the \APPS directory on drive D:, and two of its subdirectories MENUS and DOS. Additional paths can be added to the command by entering the necessary drive identifiers to the end of the command line. For example, if you have application programs on drives G:, H:, and I:, edit the line to read:

```
Path d:;\;d:\menus;d:\dos;g:;\;h:;\;i:;\
```

The MENUS command starts 3+Menus. For instructions on the 3+Menus program, refer to the *3+Menus "How to" Guide*.

RAM Disk Environment

Sets paths, copies selected programs into the RAM disk, and starts 3+Menus. This section is executed only if the netstation has a RAM disk.

Format

```
COPY %BOOT%\COMMAND.COM H:
```

```
.  
.
.
```

```
COPY D:\MENUS\MENUS.EXE H:
```

```
::IF EXIST D:MAIL.EXE COPY D:MAIL.EXE
```

```
PATH H:;\D:;\D:\DOS
```

Remarks

The COPY commands transfer the COMMAND.COM and PROFILE.SYS files, and the 3+Menus program into the RAM disk on drive H:. Operating the files from RAM disk makes a faster netstation environment. Unless the RAM disk has been assigned a drive identifier other than H:, do not change these commands.

For those netstations with RAM disks larger than 1 megabyte, you can also copy the 3+Mail program onto drive H: by removing the two colons from the beginning of this command:

```
::if exist d:mail.exe copy d:mail.exe
```


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The final command in this section assigns the netstation paths. The default command sets paths to the RAM disk on drive H:, the \APPS directory on drive D:, and two of its subdirectories MENUS and DOS. Additional paths can be added to the command by entering the necessary drive identifiers to the end of the command line. For example, the following line adds new paths for drives I: and J:.

Path h:\;d:\;d:\dos;i:\;j:\

Appendix C: ASCII Character Set

ASCII Character	Dec	Equivalent Forms		
		Binary	Oct	Hex
NUL	0	00000000	000	00
SOH	1	00000001	001	01
STX	2	00000010	002	02
ETX	3	00000011	003	03
EOT	4	00000100	004	04
ENQ	5	00000101	005	05
ACK	6	00000110	006	06
BEL	7	00000111	007	07
BS	8	00001000	010	08
HT	9	00001001	011	09
LF	10	00001010	012	0A
VT	11	00001011	013	0B
FF	12	00001100	014	0C



ASCII Character	Dec	Equivalent Forms		
		Binary	Oct	Hex
CR	13	00001101	015	0D
SO	14	00001110	016	0E
SI	15	00001111	017	0F
DLE	16	0010000	020	10
DC1	17	00010001	021	11
DC2	18	00010010	022	12
DC3	19	00010011	023	13
DC4	20	00010100	024	14
NAK	21	00010101	025	15
SYNC	22	00010110	026	16
ETB	23	00010111	027	17
CAN	24	00011000	030	18
EM	25	00011001	031	19
SUB	26	00011010	032	1A
ESC	27	00011011	033	1B
FS	28	00011100	034	1C
GS	29	00011101	035	1D
RS	30	00011110	036	1E
US	31	00011111	037	1F
space	32	00100000	040	20
!	33	00100001	041	21
"	34	00100010	042	22
#	35	00100011	043	23
\$	36	00100100	044	24
%	37	00100101	045	25
&	38	00100110	046	26
'	39	00100111	047	27
(40	00101000	050	28
)	41	00101001	051	29
*	42	00101010	052	2A
+	43	00101011	053	2B
,	44	00101100	054	2C
-	45	00101101	055	2D
.	46	00101110	056	2E

ASCII Character	Dec	Equivalent Forms		
		Binary	Oct	Hex
/	47	00101111	057	2F
0	48	00110000	060	30
1	49	00110001	061	31
2	50	00119919	062	32
3	51	00110011	063	33
4	52	00110100	064	34
5	53	00110101	065	35
6	54	00110110	066	36
7	55	00110111	067	37
8	56	0111000	070	38
9	57	00111001	071	39
:	58	00111010	072	3A
;	59	00111011	073	3B
<	60	00111100	074	3C
=	61	00111101	075	3D
>	62	00111110	076	3E
?	63	00111111	077	3F
@	64	01000000	100	40
A	65	01000001	101	41
B	66	01000010	102	42
C	67	01000011	103	43
D	68	01000100	104	44
E	69	01000101	105	45
F	70	0100110	106	46
G	71	01000111	107	47
H	72	01001000	110	48
I	73	01001001	111	49
J	74	01001010	112	4A
K	75	01001011	113	4B
L	76	01001100	114	4C
M	77	01001101	115	4D
N	78	01001110	116	4E
O	79	01001111	117	4F
P	80	01010000	120	50



ASCII Character	Dec	Equivalent Forms		
		Binary	Oct	Hex
Q	81	01010001	121	51
R	82	01010010	122	52
S	83	01010011	123	53
T	84	01010100	124	54
U	85	01010101	125	55
V	86	01010110	126	56
W	87	01010111	127	57
X	88	01011000	130	58
Y	89	01011001	131	59
Z	90	01011010	132	5A
[91	01011011	133	5B
\	92	01011100	134	5C
]	93	01011101	135	5D
^	94	01011110	136	5E
_	95	01011111	137	5F
`	96	01100000	140	60
a	97	01100001	141	61
b	98	01100010	142	62
c	99	01100011	143	63
d	100	01100100	144	64
e	101	01100101	145	65
f	102	01100110	146	66
g	103	01100111	147	67
h	104	01101000	150	68
i	105	01101001	151	69
j	106	01101010	152	6A
k	107	01101011	153	6B
l	108	01101100	154	6C
m	109	01101101	155	6D
n	110	01101110	156	6E
o	111	01101111	157	6F
p	112	01110000	160	70
q	113	01110001	161	71
r	114	01110010	162	72

ASCII Character	Dec	Equivalent Forms		
		Binary	Oct	Hex
s	115	01110011	163	73
t	116	01110100	164	74
u	117	01110101	165	75
v	118	01110110	166	76
w	119	01110111	167	77
x	120	01111000	170	78
y	121	01111001	171	79
z	122	01111010	172	7A
{	123	01111011	173	7B
	124	01111100	174	7C
}	125	01111101	175	7D
~	126	01111110	176	7E
DEL	127	01111111	177	7F

Appendix D: Copying Files Using 3COPY

3COPY is a general purpose file copy utility. It is similar to the DOS COPY command, but provides added flexibility. You can request date-sensitive copy, configuration prompts, and dry-runs. You can copy files from many directories in a directory tree, and you can copy entire directory trees.

3COPY runs on an IBM PC or compatible computer with 256K memory and DOS version 2.1 or higher.

You can run 3COPY from the distribution disk or from a backup copy. You can also install 3COPY on a fixed disk or on a network volume or directory. To install 3COPY, copy the 3COPY.EXE program file onto the desired location using the DOS COPY command.

3COPY Command Format

3COPY *fromspec* [*tospec*] [/s] [/c] [/n] [/d] [/h] [/f=file]

Parameters

<i>fromspec</i>	Source file specification of files to copy. You can include drive and path or allow them to default to the current drive and path. You can include "*" and "?" wildcards. For more information on DOS filespecs, please refer to your DOS manual.
<i>tospec</i>	Destination drive and path. Do not include a file name and extension; 3COPY does not rename files as it copies. If you omit this parameter, 3COPY will copy to the current default drive and directory.
s	Include files in subdirectories below fromspec.
c	Ask for confirmation of each file to copy.
n	No copy – 3COPY just displays what it would do in a normal case ("dry run").
d	Check dates and only copy if source file datetime is newer than the destination file datetime or if the file does not exist in the destination directory. If the source file datetime is older than the destination file datetime, the file will not be copied. (Multiple diskette output disabled with this option).

- h** Display help – don't process anything.
- f=file** Route output to a report file as well as display onscreen. Character device designators such as /prn work as expected. If the report file is in the source file path, it will be incorrectly copied.

Remarks

The parameters /s, /c, /d, /n, /h, and /f=file can be concatenated (linked together) or separated. The /f=file parameter must be the last or only parameter in a group. For example, the following are all valid and work as expected:

```
3COPY *.* a: /s/d
3COPY *.* a: /sd
3COPY *.* a: /s/d/n 3COPY *.* a: /s/f=report
3COPY *.* a: /sf=report /d
```

Copying Directory Structures

When you use the /s parameter, you create or overwrite files in a directory structure which mirrors the "from" directory structure. The starting point of the target structure may have a different name than that of the source structure, but the subdirectory names will be identical. 3COPY will create subdirectories in the target structure if they do not already exist. For example, assume you have a working disk drive C: and a finance department archive disk drive D: and the directory structures look like this:

```
C:\money\models
C:\money\models\eng
C:\money\models\mfg
C:\money\models\fin

D:\fin
```

D

Copying Files Using 3Copy

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```
D:\fin\pvt
D:\fin\mfg
```

If you used the following command:

```
3COPY C:\money\models\*.wks D:\fin /s
```

then 3COPY would create the following new directories on D:

```
D:\fin\eng
D:\fin\fin
```

The file C:\money\models\summ.wks would be copied to D:\fin\summ.wks. The file C:\money\models\eng\proj.wks would be copied to D:\fin\eng\proj.wks.

To Cancel a Copy

3COPY scans for the Escape character entered from the keyboard during copy operations. If you enter [ESC], 3COPY will cancel the copy operation at the end of the current file. You may also cancel a copy by typing [ESC] in response to the prompt **Copy [filename]? (Y/N) >**.

Multiple Diskette Output

If your output volume is a diskette, you do not use the /d option, and your output volume fills up, 3COPY will give you the option to insert another diskette and continue copying. When you do this, the directory structures on the multiple output diskettes may appear to be incomplete. For example, assume your source directory is DIRA and contains subdirectories DIRA\SUB1, DIRA\SUB2, and DIRA\SUB3. If it takes two output diskettes to hold all the files, then you could end up with \SUB1 and \SUB21 on the first diskette and \SUB2 and \SUB3 on the second diskette. The files from DIRA\SUB2 end up split between the two output diskettes. When you restore from multiple diskettes, you can use the same command for each one and reestablish the original directory structure on a large output fixed disk.

Restrictions

1. 3COPY clears the DOS "F1" and "F3" memory. After running 3COPY, these function keys do not recall commands issued prior to the 3COPY command.
2. 3COPY does not enable output verification. If you want verification, use the DOS VERIFY command. For example:

```
C> VERIFY ON
C> 3COPY c:\mypath\*.dat d:\yourpath /s
C> VERIFY OFF
```

3. 3COPY creates subdirectories beneath the target directory, as necessary, to mirror the source directory tree structure. Selective copies with wildcard characters and multiple diskette output sequences can result in the creation of empty subdirectories to provide the appropriate directory structure. If you try to copy to a very full diskette or network volume, 3COPY might create one or more subdirectories before discovering that the next file it needs to copy will not fit. When this happens, 3COPY does not remove the subdirectories that it created. You can remove them with the DOS RMDIR command.
4. Typing commands "ahead" of 3COPY while it is running can cause unpredictable results. You can, however, execute several 3COPY commands from within a .BAT batch file.

Appendix E: Technical Support

This section tells you how to do the following:

- ▶ Attempt to isolate and solve a network problem.
- ▶ Confirm that a problem exists before you call your network supplier.
- ▶ Contact your network supplier.
- ▶ Obtain support services from your network supplier or 3Com Corporation.
- ▶ Obtain a "Return-to-Factory" authorization for failed products.

Problem Sources

There are five common sources of network problems:

- ▶ A network user might misunderstand a network command or procedure and get an unexpected result.
- ▶ A new hardware component is installed or configured incorrectly, or is incompatible.
- ▶ Application software can cause problems if it is not used correctly, if the software itself contains bugs, or if it is incompatible with network software or other application software.
- ▶ Cable problems can occur if the cable is connected or routed incorrectly, cable specifications are violated, the cable develops a mechanical or electrical fault, or the network is inadvertently disconnected.
- ▶ Overloaded servers can slow down network response times, or a personal computer or server can develop a hardware problem.

Problem-Solving Tools

The following tools can help you diagnose and solve network problems.

- ▶ A network diagram and log. Complete records and familiarity with your network configuration are invaluable tools in resolving problems.
- ▶ Ring loopback plugs. Loopback plugs let you isolate and test portions of the network to determine where the problem lies.
- ▶ Diagnostic software supplied with your 3Com server or board.

- ▶ The *3Com Compatible Products Directory* and your network supplier can help you confirm that your network components and software are compatible.
- ▶ Guides and manuals. Always refer to your network hardware and software guides and manuals to help you determine the nature of the problem. Examples of these resources include the *3Server386 Guide*, *3+Share User Guide*, and *3+ Messages* guide. Also check your computer's operating manual, the DOS manual, and your application software manuals.
- ▶ Digital ohmmeter. A digital ohmmeter or multimeter, available from your local electrical supply shop, will help you identify cable defects, such as an open circuit or a short circuit, by measuring the cable's DC resistance. If you do not have a digital ohmmeter, an analog meter can also be helpful.

For additional information and suggestions, consult the troubleshooting sections of applicable guides.

Before You Contact Your Network Supplier

These steps help you verify your problem.

1. If you are having trouble installing hardware or software on your network, see the guide supplied with the hardware or software, and repeat the installation procedures. Run any tests that are described to verify the current installation.
2. Check the *3Com Compatible Products Directory* to assure that the various components of your network are compatible and you have a supported configuration.
3. Check the cables and connectors to see that they have been attached correctly.

4. If the problem occurs on a single workstation, replace it with a known working unit and see if the problem persists.
5. If the problem continues, call your network supplier for assistance.

Contacting Your Network Supplier

You should have the following information at hand before you talk to your network supplier:

- ▶ A complete description of the problem, including the following: the nature of the problem, duration of the problem, when the problem occurs, the components with which the problem occurs, and whether the problem still occurs when the application is used off the network.
- ▶ An accurate list of the 3Com network equipment model and serial numbers, and 3Com software product part numbers, including the software revision levels. Include the date you purchased the products.
- ▶ An accurate list of your equipment types and model numbers for personal computers, monitors, fixed disks, printers, and so on; and a list of the third party software you are using, including DOS level and software revision level.
- ▶ A list of any changes that have been made to your system configuration prior to your problem, including hardware changes, operating system software or application software changes, or system administration procedures.

How to Secure Support Service

Your Authorized 3Com network supplier is qualified to provide network planning, installation, hardware maintenance, applications training, and support services. Your network supplier is uniquely qualified to provide on-site services for products from multiple vendors.

Authorized Service Centers and Complete Network Centers (CNC)

Local authorized service centers (ASC) are a good source of quality repair and spare parts. Often they are able to respond more quickly than the factory and can provide on-site services. If your network supplier is not a 3Com authorized service center, contact 3Com at (800) NET-3COM to locate the ASC nearest you.

However, should you wish to augment your reseller's services with in-depth expertise on the 3Com components in your network, 3Com offers a variety of support services for purchase. These services include:

- ▶ Technical Bulletin Subscription Service
- ▶ On-line Technical Subscription Service
- ▶ Software Update Services
- ▶ Technical Assistance via telephone (annual contract or per incident)
- ▶ Annual contract covering all the above services
- ▶ Consulting services to assist in programmatic interface to 3Com products

- ▶ Return to factory repair services
- ▶ Spare parts and kits for large installation or in-house repairs

Information about these programs and services is available from your authorized 3Com network supplier or direct from 3Com. Should your network supplier, ASC or CNC be unable to assist you, please contact the 3com Customer Relations Department at (408) 988-1919.

Returning Boards for Repair

Local authorized service centers are a good source of quality repair and spare parts. Often they are able to respond more quickly than the factory.

If you wish to return boards direct to 3Com you will need to obtain a return material authorization (RMA) number *before* shipping. To obtain this number call (408) 562-6500.

When you call, please have the following information:

- ▶ Name and phone number of technical contact
- ▶ Company name
- ▶ Shipping address
- ▶ Product name
- ▶ Serial number of unit and serial number of failed component
- ▶ Failure symptoms with diagnostic error messages

Warranty repairs must be accompanied by dated proof of purchase.

Payment is by COD, Mastercharge, or Visa. Before shipping completed COD repairs, 3Com will call with date of delivery and exact amount due.

Terms are available only if special authorization has been arranged with 3Com accounting department. A hard copy of the PO must be enclosed with the return.

Confirm failures with diagnostics before returning boards to 3Com. Incoming products are tested carefully. When a hardware failure cannot be duplicated, the unit is put into extended test, cleaned, tuned and brought to the highest revision. There is a charge for this service. Return shipping and handling is included. This charge also applies to boards under warranty.

Shipping information:

- ▶ Package carefully. Use the original container if possible. Controller boards should be wrapped in anti-static bag. Do not pack directly in popcorn. Do not return cables, connectors, or documentation.
- ▶ Mark the RMA number clearly on the outside of the shipping container.
- ▶ Ship to:

3Com Corporation
3165 Kifer Road
Santa Clara, CA 95052-8145

Factory repairs take 5 working days and are returned second day air. With weekends and combined shipping time, expect your unit to be gone two weeks. A 24 hour turn around option, which included Priority 1 return freight is available for an additional expedite charge.

Index

For your convenience, references to 3+ commands have been listed by command name.

Page references in bold type refer to sections of the manual where command information and parameters are summarized. Also, for purposes of alphabetizing the entries, the 3 or 3+ that precede entry names have been ignored.

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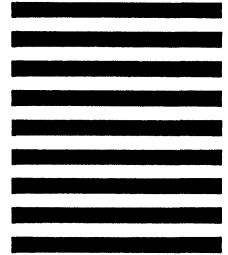
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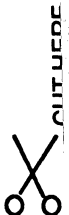
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