Disk Server



User's Guide

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- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

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1 About your Disk Server

Congratulations on the purchase of your new Disk Server. The Disk Server allows both Macintosh and Windows users on the LAN to share data stored on the Disk Server, as well as share the attached printer.

Disk Server Features

- ? ? *Easy LAN Installation (10/100BaseTX)*. An 10BaseT/100Base TX autosensing LAN connection eliminates the need to set DIP switches.
- ? ? *Supports Windows and Macintosh.* Clients can be either Microsoft Windows PCs (Windows 95, 98, NT4.0, 2000), or Apple Macintoshes.
- ? ? **Built-in Print Server.** LAN users both Windows and Mac can share the printer attached to the Disk Server, converting it to a "Network Printer".
- ? ? No Client Software. No software needs to be installed on either Windows or Macintosh clients.
- ? ? *File Management using OS tools.* Once your PC has access to the Disk Server, you can manage your folders and files using the familiar tools provided by your operating system. For example, Windows users will see the Disk Server as an additional drive in *Windows Explorer* and *My Computer*.
- ? *DHCP Server Support.* A DHCP (Dynamic Host Configuration Protocol)
 Server provides a dynamic IP address to PCs and other devices upon request. The requesting devices are called DHCP Clients.
 The Disk Server can act as either a DHCP Server OR a DHCP Client.
- ? ? *Multi Segment LAN Support.* If you have a Router, PCs on other LAN segments can also use the Disk Server.
- ? ? *Easy Setup.* A *Quickset* Windows program is provided to allow speedy configuration of the Disk Server
- ? ? *Full Administrator Control.* The LAN Administrator can control Disk Server usage by the following means:
 - ?? Users: To control access to the Disk Server, each user has a password The Administrator can also limit the Disk Storage available to a user.
 - ?? Groups: Users are organized into Groups. A user can be in many Groups.
 - ?? Shares: A "Share" is a folder (directory) on the Disk Server which a User Group can access. Only the Disk Server Administrator can create Shares. (Users can create folders within the Share.)
 - ?? Access Rights: Access to Shares can be Read-Only, Read-Write, or no access. Conveniently, access to Shares is set by Group, not by individual user.

? ? *Remote Management.* The Disk Server can be managed from a workstation anywhere on the LAN, using a WEB browser.

Package Contents

The following items should be included:

- ? ? The Disk Server Unit.
- ? ? Power Adapter
- ? ? Category 5 UTP network cable with RJ45 connectors.
- ? ? CD-ROM, containing this User Manual and the Disk Server Utility program for Windows 95/98/NT4.0/2000.
- ? ? Printed User Manual.

If any of the above items are damaged or missing, please contact your dealer as soon as possible.

System Requirements

- ? ? Ethernet Network employing 10BaseT or 100BaseTX.
- ? ? TCP/IP protocol.

The following client PCs are supported:

- ? ? PC using Windows 95/98 or later.
- ?? PC using Windows NT4.0 or Windows 2000.
- ? ? Apple Macintosh with AppleShare and system 7.5 or later.

Connections and Components

All connections and switches are on the rear panel. Please take a few minutes to familiarize yourself with your new Disk Server.

Power Switc	h 100Base	TX LED	Printer	port
Power	Reset Uplink	0	©BaseT	a 10BaseT LED
Input	button button	Conn	ector	
	Figure 1: Di	sk Server	Rear Pan	el
Power Switch	This is a spring If Off, press on If On, press on During <i>Shutdo</i>	g-loaded "S ce to turn (ce to start (wn, the Re	oft Switch On. the Disk <i>S</i> ady LEDs	n". <i>hutdown</i> sequence. will blink.
Power Input	Connect the su	pplied pow	ver adapter	here.
Reset IP Button (IP/Password)	If the Disk Ser release this but cate the reset h The Disk Serve set to the defau of 255.255.255.255.255.255.255.255.255.255	ver's IP Ad ton. The D las occurre er password lt value of)	dress or pa isk Server d. I will be cl 192.168.0.	assword is lost, press and will beep once to indi- eared, and its IP Address 2, with a Network Mask
	IP Address and	l password	l.	erver and set the correct
Uplink Button	If connecting d depress this bu For normal oper should be UP	irectly to a atton. eration (con	PC or Ma	cintosh via Ethernet, o a hub), this button
10/100BaseTX connector	Use this to con 100BaseTX hu	nect the Di b.	sk Server	to your 10BaseT or
100BaseTX LED (amber)	This will be ON 100BaseTX.	N if the 10/	100BaseT	X connector is using
10BaseT LED (green)	This will be Of 10BaseT.	N if the 10/	100BaseT2	X connector is using
Printer Port	Standard parall becomes a "net	el printer p work print	oort. A prii er".	nter connected here

LEDs (Front Panel)

Ready	Normally ON. This blinks during Startup or Shutdown, and turns OFF after the shutdown is completed.
Error (Amber)	Normally OFF. However, it will be On during the power-on self test. Once the self-test is completed, it will turn OFF. If it stays ON, there is a hardware error.
	During a software upgrade, both the Ready and Error LEDs will blink.
Disk Full	Normally OFF. Blinking indicates the disk is 98% full. ON indicates the disk is completely full.
Disk	Flashes during normal operation, when the Hard Disk is accessed.
LAN	Flashes during normal operation, when data is transmitted or received via the LAN.

There are five (5) status LEDs on the front panel, as follows:

Buzzer

The buzzer will beep as follows:

- ?? 1 Beep Reset button or power switch is pressed.
- ? ? **2 Beeps** (Repeated every 5 seconds for 1 minute) Disk Server is a DHCP client, but no DHCP Server responded to the DHCP client request.
- ? ? **3 Beeps** (Repeated every 15 seconds for 3 minutes) Hard disk usage exceeds 98%.
- ? ? **5 Beeps** (Repeated every 15 seconds for 3 minutes) Overheating; automatic shutdown will start 3minutes after 1st beep.

Specifications

Dimensions	210mm (W) * 271mm (D) * 66mm (H) 8" (W) * 11" (D) * 3" (H)
Operating Temperature	5? C to 40? C
Storage Temperature	-10? C to 60? C

Network Protocol:	TCP/IP, AppleShare, SMB
Network Interface:	Auto-sensing Ethernet 10BaseT or 100BaseTX UTP, RJ45 connector
Printer Port	1 Centronic parallel port
LEDs	Rear: - 2 LAN connection status Front: - 5 status/operation
Power	12V DC , maximum 3.6 amps. 100- 240 V AC, 50-60Hz power adapter provided.



Requirements

- ?? Ethernet Network employing 10BaseT or 100BaseTX.
- ?? TCP/IP protocol.

LAN Installation

1. Connect Network Cable

- ? ? Use the RJ45 socket to connect the Disk Server to your Hub.
- ? ? The Disk Server will auto-configure for 10BaseT or 100BaseTX, and full or half duplex.

2. Connect Printer

? ? If you wish to share a printer, use a standard printer cable to connect the printer to the Disk Server's parallel port.

3. Connect Power

- ? ? Connect the supplied power adapter to a power outlet and the Disk Server.
- ? ? Press and release the rear-mounted power switch to begin the start-up procedure.

4. Check the boot process

- ? ? During the self-test (2 or 3 seconds), ALL of the LEDs will be ON.
- ? ? During the boot process, the *Ready, Error* and *Disk Full* LEDs will be ON.
- ? ? Once the boot process is completed, the *Ready* LED should be ON and the *Error* LED should be OFF. If the *Error* LED stays On, there is a hardware problem. Repeated beeps also indicate a failure to boot correctly.

Disk Server Setup using Windows

- ? ? For basic operation, only the following setup is required.
- ? ? For the full range of options available to the Network Administrator, refer to *Chapter 3 Administration*.

Software Installation

- 1. Insert the supplied CD-ROM into the drive of your Windows 95/98 or Windows NT4.0/2000 system.
- 2. If the SETUP program does not start automatically, run SETUP.EXE in the root directory.
- 3. Follow the prompts to install the Disk Server Utility.

Using the Disk Server Utility

- 1. Start the program. For the default installation, use *Start Programs Disk Server Disk Server Utility*.
- 2. The screen will look like the example below. The left section displays a list of all Disk Servers. The right section displays data about the currently-selected Disk Server. (If no Disk Servers are listed, see the Troubleshooting section.)

Quick Setup	Administration	
Disk Server Utility		
🛎 至 🟂 언	🗴 💐 🤦	
All Disk Servers	Disk Server Status – DS005206	
DS005206	Item	Value
💷 SC35E467	Default Server Name	SCFF003A
	Server Name	DiskServer
	Comment	
	Version	V1.0 R10
	Time Zone	(GMT-08:00) Pacific Time
	Date	08/25/1999
	Time	15:27:36
	Hardware Address	00:C0:02:FF:00:3A
	IP Address	192.168.0.2
	Subnet Mask	255.255.255.0
	Default Gateway	0.0.0.0
	IP Status	Static
	DHCP server	Disabled
	Microsoft Network	workgroup
	WINS Client	Disabled
	AppleShare Network Zone	*
For Help, press F1		

Figure 2: Disk Server Utility



- 3. Ensure that the desired Disk Server is selected in the left panel, then click the *Quick Setup* icon.
- 4. If you are prompted for a User Name and Password, enter *admin* for the user name, and the password you have assigned to the *admin* user (By default, there is no password, so the Password field can be left blank.)
- 5. The *Setup* screen will be displayed, as shown below.

tup Disk Server –	SCFF0091
Server	
Server Name:	SCFF0091
Comment:	Location - Server room (optional)
Time Zone:	(GMT-08:00) Pacific Time (US & Canada); Tijuana 💌
Date	12 / 31 / 1999 Time: 3 : 43 PM 💌
C Obtain an IP a	ddress automatically (DHCP Client)
Fixed IP Addre	 ISS
IP Address:	192 168 0 2
Network Masl	c 255 255 255 0
Gateway:	192 168 0 254
🔽 Enable DH	ICP Servet
Start IP Ar	Indress: 192 168 0 100
5: : L ID (
Finish IP A	Address: 192 100 0 200
-Microsoft Networkir	ng
Workgroup Name	e: workgroup
Enable WINS	WINS Server: 172 31 2 160
Apple Networking	
Zone: *	
Г	OK Cancel Help

Figure 3: Setup Screen

Enter data on this screen as follows:

Server	
Server Name:	The Default Name is shown. Change this if you wish.
Comment:	Comments (e.g. Location of the Disk Server) are op- tional.
Time Zone	Select your time zone from the list.
Date/Time	Enter the local date (mm/dd/yyyy format) and time.

Obtain an IP Address automatically (DHCP Client)	If you have a DHCP or Bootp server on your LAN, you can enable this setting. The Disk Server will then obtain its IP Address from the DHCP or Bootp server. However, because this is a Server, it is preferable to use a Fixed IP Address .
	If your LAN does not have a DHCP server, then you must select Fixed IP Address .
Fixed IP Address:	Select this option to enter an IP Address. This option is required if you wish to use the DHCP Server func- tion.
IP Address:	Enter a free IP Address from the address range used by PCs on your LAN. The default Disk Server value is 192.168.0.2
Network Mask:	Use the same value as PCs on your LAN. The default Disk Server value is 255.255.255.0
Gateway:	Use the same value as PCs on your LAN. If you don't have a router or Internet Gateway, leave this at the default value (blank).
Enable DHCP Server:	If checked, the Disk Server will provide an IP Address and related data to PCs on request. PCs will only make such as request if they are set to act as DHCP clients . (See <i>Windows Client Setup</i> and <i>Mac Client Setup</i> for details.)
Start IP Address:	The first value for the range of IP Addresses to be allocated by the DHCP Server.
Finish IP Address:	The last value for the range of IP Addresses to be allocated by the DHCP Server
	Ensure that the range is large enough for the number of DHCP clients (PCs and other devices making DHCP requests.)
Microsoft Networking	
Workgroup Name:	Normally, this name should match the <i>Workgroup</i> name used by PCs on your LAN.
Enable WINS	Check this if your LAN has a WINS (Windows Inter- net Naming Service) Server.
WINS Server	Enter the IP Address of the WINS Server. This is normally a system running Windows NT Server.

Apple Networking

Zone:	The default value is "*", giving all zones access to the Disk Server. If a zone name is shown, only Mac users in that zone can access the Disk Server
	users in that zone can access the Disk Server

- 6. Click "OK" to save and exit. The Disk Server is now operational, with the following limitations.
 - ?? All Windows users will be given "Guest" access rights. This allows Printer usage, and access to the *public* folder.
 - ?? Macintosh users can only access Disk Server storage with the *guest* network logon, or by logging on as *admin* with no password. (The *admin* user has access rights to ALL folders.)
 - ?? Macintosh users can only access the printer if it is a LaserWriter or compatible.

To overcome these limitations, use the Browser-based *Administration* interface. This is invoked with the *Administration* icon on the Disk Server Utility's main screen. See Chapter 3 for full details on using the Administration interface.

Disk Server Setup using Macintosh

If your PC is not running Windows 95/98/NT4/2000, you cannot use the SETUP program on the CD-ROM.

Instead, you must connect to the Disk Server, and configure it, using your Web Browser. Your Web Browser must support JavaScript V1.1.

The interface has been tested on the following Browsers:

- ? ? Netscape Navigator 4.04, 4.08, 4.5
- ?? Internet Explorer 4.0
- ?? Internet Explorer 5.0

Connecting to the Disk Server

- 1. Ensure your system has a compatible *IP Address* and *Network Mask (Subnet Mask)*.
 - ?? The Disk Server's default values are 192.168.0.2 for the IP Address, with a Network mask of 255.255.255.0. Your PC should use the same Network Mask, and an IP Address in the range 192.168.0.3 to 192.168.0.254.
 - ?? On the Macintosh, you can check using *Apple Control Panel TCP/IP*. (If this option does not exist, then TCP/IP has not been installed. Use your Apple system disk to install TCP/IP.)
- 2. Connect to the Disk Server using your Web Browser:
 - a) Start your Browser
 - b) In the Address box, enter the following:

HTTP://ip_address

Where ip_address is the IP Address of the Disk Server, as in the following example:

HTTP://192.168.0.2

c) You will be prompted for a name and password.

Enter *admin* for the name, and leave the password blank. Later, if you set a password for the *admin* user, you will be required to enter it here to gain access to the Disk Server.

3. On the first screen, click the *Administration* button to continue. You will then see the main menu, as shown below.

🖉 Disk	Server Setu	p - Microsoft Internet Explorer	2ip 💶 🗖 🗙
Cont	iguration		
	Network	IP Address, DHCP Server, DNS, Appletalk, MS networking	
**	System	General, E-Mail notification, Printer port, Shutdown	
🗳	Utilities	Disk Server maintenance utilities.	
	Status	Check configuration, Disk usage, Printer.	
Stor	age Manag	ement	
🇭	Browse	Browse directory tree on Disk Server	
🖏	Groups	Create, delete, and modify Groups.	
	Shares	Create, delete, and manage Shared resources.	
<u>_</u>	Users	Create, delete, and modify Users.	
			Back



- 4. Select *Network* and configure each tab. Use the on-line help as necessary.
- 5. Macintosh users can now access the Disk Server, provided they use the *Guest* button on the Network login, or login as *admin*.
 - ?? As *guest*, they will have access to the *public* share. The Disk Server Administrator can grant access to other shares by changing the access rights to the *everyone* group.
 - ?? The *admin* user has access rights to ALL folders. By default, the *admin* user has no password, but one can and should be assigned.
 - ?? For further details on using the Web Administration interface, refer to *Chapter 3 Administration*.

Printer Setup for Macintosh

- ? ? If using a LaserWriter, no setup is required. Just follow the procedure in *Chapter* 5 *Macintosh Client Setup*.
- ? ? If not using a LaserWriter, Mac clients must install the printer driver for the Disk Server's printer.

Also, the *System - Printer Port* screen (below) must be correct. Select "Other" for *Printer connected to Disk Server* and ensure the *Printer Object Type* is correct. Check your printer's documentation to find the *Printer Object Type*.

🖉 System Cor	figuration - Mi	crosoft Internet Explorer	210 💶 🗖 🗙
General	E-Mail	Printer Port Shutdown	
Pri	nter Name:	Epson Inkjet	
Se	tup for Macin	osh	
Pri	nter connected	to Disk Server:	
		C LaserWriter or compatible	
		Other (requires correct prir	nter driver on Mac)
Pri	nter Object Typ	e: epsonlq2	
		This must be correct or the Di	isk Server printer
		will not be listed on the Mac.	
		Help OK	Cancel

Once this is done, the procedure in *Chapter 5 - Macintosh Client Setup* can be performed.

Figure 5: System - Printer tab



Overview

The Disk Server administrator can control Disk Server usage by creating and managing Users, Groups, and Shares.

- ? ? Users: Each user is identified by their *User Name* and *Password*. The Administrator can create Users, and also limit the amount of Disk Storage available to a user.
- ? ? **Groups**: Users are organized into user Groups. A user can belong to many Groups.
- ? ? **Shares**: A "Share" is a folder (directory) on the Disk Server which users can access. Only the Disk Server Administrator can create Shares. However, within a Share, users who have access to that Share can create other folders (directories) as well as files.
- ? ? Access Rights: Access to a share can be "Read-only" or "Read-Write". To reduce administration workload, access to a Share is granted to a User Group, rather than to individual users.

Note:

- ?? A Share can be accessed by only 1 Group, but a Group can access many Shares.
- ?? The *admin* user, and any other users who are added to the *administrator* group, ALWAYS have Read/Write access to ALL shares and folders.
- ?? The *guest* user has Read/Write access to the *public* share. This can be changed, and access to additional shares can be granted, by changing the access rights for the *everyone* group.
- ?? Users who do not have a *User Name* on the Disk Server are automatically given the *guest* login.

Web Interface

To create and manage users, groups and shares, a Web-style interface is provided.

The Disk Server contains a HTTP server. This enables you to connect to it, and configure it, using a Web Browser. The Web Browser must support JavaScript V1.1 The interface has been tested on the following Browsers:

- ? ? Netscape Navigator 4.04, 4.08, 4.5
- ?? Internet Explorer 4.0
- ?? Internet Explorer 5.0

f

AppleShare does NOT support "Readonly" access, so access is always "Read-Write".

Connecting to the Disk Server

Windows Users

1. Start the Disk Server Utility, and select the desired Disk Server.



- 2. Click the *Administration* icon.
- 3. You will be prompted for the password, as shown below

Enter Network	Password	? ×
Please entery	your authentication information.	ОК
Resource:	DiskServer	Cancel
<u>U</u> sername:	admin	
<u>P</u> assword:	Jobskolovsk	
□ <u>S</u> ave this p	oassword in your password list	

Figure 6: Password Prompt

Enter *admin* for the **User Name**. By default, there is no password, but if you have set a password for the *admin* user, enter it here.

You will then see the Welcome screen. If you have multiple Disk Servers, you can use the *Connect* button to switch to another Disk Server.

Click the *Administration* button to proceed to the **Main Menu**. See the next section for details.

Other Users

1. Start your WEB browser

In the Address box, enter the following:

HTTP://ip_address

Where ip_address is the IP Address of the Disk Server, as in the following example:

```
HTTP://192.168.0.2
```

2. You will be prompted for the password, as shown in *Figure 6: Password Prompt* above. Enter *admin* for the **User Name**. By default, there is no password for the *admin* user, but if you have set a password, you must enter it here.

You will then see the first screen. If you have multiple Disk Servers, you can use the *Connect* button to switch to another Disk Server. Otherwise, click the *Ad*-*ministration* button to proceed to the **Main Menu**.

Main Menu

🛎 Disk	Server Setu	p - Microsoft Internet Explorer	2ip 💶 🗆 🗙
Conf	iguration		
₽ ■■	Network	IP Address, DHCP Server, DNS, Appletalk, MS networking	
**	System	General, E-Mail notification, Printer port, Shutdown	
	Utilities	Disk Server maintenance utilities.	
idh Jidh li	Status	Check configuration, Disk usage, Printer.	
Stor	age Manag	ement	
Ø	Browse	Browse directory tree on Disk Server	
۴ <mark>۰</mark>	Groups	Create, delete, and modify Groups.	
	Shares	Create, delete, and manage Shared resources.	
<u>s</u> i	Users	Create, delete, and modify Users.	
		E	ack

The **Main Menu** screen looks like the example below:

Figure 7: Web Interface - Main Menu

The options on the main menu are divided into 2 groups:

- ? ? Configuration
- ? ? Storage Management

Configuration Group

Network

- ? ? IP Address Set IP Address, Network mask (Subnet Mask), and Gateway.
- ? ? DHCP Enable and configure the DHCP Server function.
- ? ? DNS (DNS) Domain Name Server IP Addresses.
- ? ? **AppleTalk** Set the AppleTalk *Zone*. The default value is "*", which allows access by all zones.
- ? ? **Microsoft** Configure Microsoft networking; set *Workgroup Name*, *Code Page* (alphabet) and WINS (Windows Internet Naming System).

System

	? ? General - Set the Disk Server name, date and time, and Time Zone.
	? ? E-Mail - Configure the Disk Server to send E-Mail messages when there is a problem.
	? ? Printer Port - Configure the Printer. This is helpful but not essential for Win- dows users.
	It is essential for Macintosh users when the printer connected to the Disk Server is NOT a LaserWriter or compatible.
	? ? Shutdown - Shutdown the Disk Server, or create a shutdown schedule.
Utilities	
	These utilities are not required for normal operation.
	? ? Disk - Check the disk for errors, similar to Scandisk. If multiple disks are fitted, you can also format a new disk.
	? ? Log - Check the system log. This is provided only for troubleshooting.
	? ? Upgrade - Upgrade the Disk Server software.
Status	
	? ? Disk - Check disk usage. This data is read-only.
	? ? Printer - Check the printer status, and delete the current print job, or all print jobs.

? ? System - Check System status. This data is read-only.

Storage Management Group

Use these options to manage <i>Shares</i> , <i>Users</i> , <i>Groups</i> , and access to shares. See the later section <i>Managing Shares</i> , <i>Groups and Users</i> for details.
Browse the Shares and folders on the Disk Server. This allows you to:
? ? See the relationship between <i>Shares</i> and folders on the hard disk.
? ? View the directory structure on the Disk Server.
? ? View the current Groups, modify their access to Shares, and add or delete Users from any Group.
? ? Create new Groups, or delete existing Groups.
? ? Create, delete and modify Shares. A "Share" is a folder (directory) which Users can access.
? ? Access rights are set by Group rather than by individual user.

Users

- ? ? View the list of existing users, and modify individual user data.
- ? ? Create or delete individual users.

Note:

- ?? The *guest* and *admin* users cannot be deleted.
- ?? The *admin* user cannot be removed or moved from its existing group "administrator".
- ?? By default, the *admin* user has no password. Assigning a password is recommended.
- ?? The *admin* user, and all other members of the *administrator* group, **always** have Read/Write access to **all** shares and folders.
- ?? The properties for the *guest* user cannot be changed.

Managing Shares, Groups, and Users

This section has additional information to assist the Disk Server Administrator in managing and controlling access to the Disk Server.

Terminology

- ? ? A *Share* is a folder on the Disk Server which can be accessed by client PCs on the LAN.
- ? ? *Access rights* (Read-only or Read-Write) are granted to a *Group* (group of users), rather than to individual users.
- ? ? Each *Share* can only be accessed by a single *Group*.
- ? ? A Group can have access to many Shares.
- ? ? Each individual User can belong to many Groups.

Special Shares, Users and Groups

When delivered, the Disk Server will have the following shares, groups and users. These pre-defined objects cannot be deleted, and only limited modifications may be performed.

Shares & Folders

HDD1	??	This is the root folder. Backing up this share backs up all data on the drive.
	??	The <i>administrator</i> group ALWAYS has Read/Write access to this share.
public share	??	By default, the <i>everyone</i> group has Read/Write access to this folder. This can not be changed, so ALL users always have Read/Write access to the <i>public</i> share.
	??	This share can not be deleted.
spool folder	?? ??	System folder, holding print jobs waiting to be printed.
	••	This folder can be accessed via the browse menu option.
	??	Deleting a file in this folder will cancel the corresponding print job.

Groups

everyone	??	This group cannot be deleted.
	??	All users are members of this group, and cannot be removed from this group.
	??	By default, this group has Read/Write access to the <i>public</i> share. This can not be changed, but access to other shares can be granted or revoked.
administrator	??	ALWAYS has Read/Write access to ALL shares.
	??	This group cannot be deleted.
	??	The <i>admin</i> user cannot be removed from this group, but other users may be added or deleted.
Users		
admin	??	This user cannot be deleted.
	??	The <i>admin</i> user is a member of the <i>administrator</i> group, and therefore has Read/Write access to all shares.
	??	By default, the <i>admin</i> user has no password, but a pass- word can be assigned. Assigning a password is
		recommended.
guest	??	This user cannot be deleted.
guest	?? ??	This user cannot be deleted. The <i>guest</i> user is a member of the <i>everyone</i> group, and so has the access rights of the <i>everyone</i> group.

Nested Shares

The Disk Server allows a folder inside a share to be a share. This allows "nesting" of shares to any depth. If using this feature, remember that:

- ? ? In Windows' *Network Neighborhood*, all shares are listed on the same level the "nesting" is completely invisible.
- ? ? When a user accesses a share, they will see only folders, never shares. Users cannot tell whether or not a sub-folder is in fact a nested share.
- ? ? Anyone with access to the outer share automatically has the same access rights to any inner shares. So the most sensitive data must be kept in the **outermost** share, not the innermost share. This is illustrated below.

Share (folder)



If have access, have same access rights to "confidential" and "published"

Figure 8: Nested Shares

Multiple Access Rights

- ? Access to a Share can be assigned to only 1 Group, but using nested Shares may result in multiple groups being able to access a Share.
 In the example above, if access to the shares "secret", "confidential", and "published" were assigned to the groups "managers", "supervisors", and "staff" respectively, then all 3 groups would have access to the share "published".
- ? ? If an individual user is in 2 groups with different access rights, they would receive the **Least Restrictive** access permission.

Common Administrative Tasks

Task	Procedure
Protect Server configuration	Assign a password to the <i>Admin</i> user. Select <i>Users</i> , then select the <i>Admin</i> user, and click <i>Modify</i> .
Create Users	Users menu option. Click New User.
Edit User Details	<i>Users</i> menu option. Select the desired user, then click <i>Modify</i> .
Create Groups	Groups menu. Click New Group.
Change Group Membership	?? Select the Group on the <i>Groups</i> screen, and click <i>Members</i> .
	?? OR, select the User on the <i>Users</i> screen, and click <i>Groups</i> .
Create Shares	Shares menu option. Click New Share.
Set Access to Shares	<i>Groups</i> menu. Select the Group, then click the <i>Shares</i> button. On the <i>Group/Share Relationship</i> screen, you can select the Share(s) and the type of access for this Group.
File Management	Within any Share to which you have access, you can use Windows Explorer to perform file management. Users in the <i>Administrator</i> group can access any share, and can also access the share "HDD1", which is the root directory on the Disk Server.
	Note:
	You may sometimes see the following files, which have been generated by AppleTalk clients:
	.Apple Desktop
	.Apple Double
	Do NOT delete these files!
Backun data on the	Use your backup program to backup any folder
Server	To backup all files, users in the <i>Administrator</i> group can backup the HDD1 folder.
Shutdown the	User either of the following methods:
Server	?? Press the rear-mounted power switch ONCE.
	?? Use the System - Shutdown menu option to perform a remote or scheduled shutdown.

Ready LED blinks during

shutdown.

Configure the	Windows Clients
Printer Port	The correct printer name should be entered on the System -
	<i>Printer</i> screen. This has no effect on operation, but helps uses identify the printer when they browse the network.

Macintosh Clients See the following section.

Printer Setup for Macintosh

- ? ? If using a LaserWriter, no setup is required. Just follow the procedure in *Chapter* 5 Macintosh Client Setup.
- ? ? If not using a LaserWriter, Mac clients must install the printer driver for the Disk Server's printer.

Also, the *System - Printer Port* screen (below) must be correct. Select "Other" for *Printer connected to Disk Server* and ensure the *Printer Object Type* is correct. Check your printer's documentation to find the *Printer Object Type*.

Once this is done, the procedure in *Chapter 5 - Macintosh Client Setup* can be performed.

🖉 System Cor	nfiguration - Micr	osoft Inter	net Explorer		zip 💶 🗆 🗙
General	E-Mail P	rinter Port	Shutdown]	
Pri	nter Name:	Epson Ir	nkjet		
Se	tup for Macinto	sh			
Pri	nter connected to) Disk Serv	er:		
		O LaserV	Vriter or comp	patible	
		 Other (requires corr	ect printer driver	on Mac)
Pri	nter Object Type:	epsonlq2	2		
		This must will not be	be correct or listed on the	the Disk Server Mac.	printer
		F	lelp OK	Cancel	

Figure 9: System - Printer tab



Overview

Supported versions of Windows are:

- ? ? Windows 95/98 or later
- ?? Windows NT 4.0 or Windows 2000

The following items need to be checked or configured:

- ? ? TCP/IP protocol.
- ? ? Access to the Disk Server's storage.

TCP/IP Setup

1. Select the *Control Panel - Network* option on the Start Menu. You should see a screen like the one following.

Network	? ×
Configuration Identification Access Control	
The following network components are installed:	
🐨 NetBEUI -> PCI Fast Ethernet Adapter	
🍹 NetBEUI -> Dial-Up Adapter	
🍹 NetBEUI -> Dial-Up Adapter #2 (VPN Support)	
TCP/IP -> PCI Fast Ethernet Adapter	
🍹 TCP/IP -> Dial-Up Adapter	
🐨 TCP/IP -> Dial-Up Adapter #2 (VPN Support)	
📮 File and printer sharing for NetWare Networks	-
Add R <u>e</u> move	P <u>r</u> operties

Figure 10: Network Configuration

- 2. If a line like the one highlighted (TCP/IP -> Network card) is not listed, then you need to install the TCP/IP protocol by selecting *Add Protocol Microsoft TCP/IP OK*.
- 3. With the TCP/IP entry highlighted, click on the *Properties* button. The *IP Ad*-*dress* tab will be selected. You should then see a screen like the following.

165		<u>[1]</u>			
Advanced	NetBIOS	DNS Configuration			
Gateway WINS (IP Address			
An IP address can be automatically assigned to this computer. If your network does not automatically assign IP addresses, ask your network administrator for an address, and type it in the space below.					
an IP address:					
dress:					
et Mask:					
	Advanced WINS s can be automat does not automat inistrator for an act an IP address aut an IP address: ifress:	Advanced NetBIOS WINS Configuration s can be automatically assigned does not automatically assign IP inistrator for an address, and type an IP address automatically an IP address: iress: iress: itess:			

Figure 11: IP Address (Win 95/98)

To act as a DHCP Client:

- ? ? Click on the radio button to *Obtain an IP address automatically*, as shown above. If the DHCP Server in the Disk Server has been enabled, it will now provide an IP Address and related data to your PC when it boots.
- ? ? Restart your PC. (DHCP only functions when your PC starts.)

To use "Specify an IP address" (fixed IP Address):

- ? ? If your PC is already configured, no changes are required.
- ? ? If you just installed TCP/IP, you need to enter:
 - ?? IP Address and Subnet mask (on the IP Address tab, as shown above).
 - ?? Default Gateway Address (on the Gateway tab)

These values need to be compatible with other devices on your LAN. Each PC requires a **unique** *IP Address* (usually only the last field is different), and the **same** *Subnet Mask*. The *IP Address* range commonly used is 192.168.0.1 to 192.168.0.254, with a *Subnet Mask* of 255.255.255.0.

The *Gateway* is the IP Address of your Router or Internet Gateway. If you don't have either of those, the address should be left at 0.0.0.0.

? ? If you have made any changes, Restart your PC.

If you have a Router on your LAN, ask your LAN Administrator what values to use.

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Network Logon

To use the Disk Server, you must Logon to the Network correctly:

1. Check your Window logon using *Start - Settings - Control Panel - Network*. Ensure the *Primary Network Logon* is set to *Client for Microsoft Networks*, as shown below.

Note: If this is already set, there is no need to make any changes.

Network
Configuration Identification Access Control
The following network components are installed:
VetBEUI -> PCI Fast Ethernet Adapter
VetBEUI -> Dial-Up Adapter
For the second secon
CTCP/IP-> PUI Fast Ethernet Adapter
TCP/IP -> Dial-Op Adapter #2 (VPN Support)
Sile and printer sharing for NetWare Networks
<u>A</u> dd R <u>e</u> move P <u>r</u> operties
Primary Network Logon:
Client for Microsoft Networks

Figure 12: Window Logon

2. Windows will prompt you to Logon to the Network when it boots.

You must logon. If you press ESC, or click *Cancel*, no network resources will be available. When you logon, you need to use a valid *User Name* and *Password*.

- ?? If the Disk Server Administrator has defined users on the Disk Server, use the *User Name* and password they supply.
- ?? If you use a *User Name* and password which is not recognized by the Disk Server, you can still use it, with *guest* access rights. By default, this allows read/write access to the "public" share, but the Administrator can set the *guest* access rights as they wish.

Changing your Disk Server Password

Once the Disk Server Administrator has given you a valid *User Name* on the Disk Server, you can use the following procedure to change your password.

1. Start your WEB browser

In the Address box, enter:

HTTP://ip_address/user.pl

Where ip_address is the IP Address of the Disk Server.

e.g.

HTTP://192.168.0.2/user.pl

If you do not know the IP Address of the Disk Server, ask the Disk Server administrator.

- 2. You will be prompted for your name and password. Enter your existing user name and password.
- 3. On the next screen, enter your new password.
- 4. Save, then close your Browser.

Password Management

It is convenient if you only have to logon once. This requires that the *User Name* be the same on Windows, the Disk Server, and any other Servers. Only the Administrator can create or change *Users* on the Disk Server, but you can easily change your Windows 95/98 logon:

- ?? You can logon with any *User Name*. A new user profile will be created if Windows does not recognize the user name.
- ?? Your Windows password can be changed using Control Panel -Passwords - Change Windows Password.

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The password for the admin user can NOT be changed using this method. The Administrator interface must be used.

Using the Disk Server's Storage

To use the Disk Server's storage, you must "Map" a drive letter to each folder on the Disk Server folder which you wish to access. The "Network Drive" will then be available to all Windows programs. The procedure is as follows:

- 1. Double-click the *Network Neighborhood* icon on the desktop.
- 2. On the "View" menu, select Details. The Comment column will now be visible.
- 3. Locate the Disk Server, as shown below. If it is not listed, double-click *Entire Network*. Then double-click the Workgroup that the Disk Server is in. (By default, the Disk Server is in *Workgroup*.)

A WORKGROUP		2ip 💶 🗖 🗙
<u>File E</u> dit <u>V</u> iew <u>G</u> o F <u>a</u> vor	ites <u>H</u> elp	-
] ⇔ ▼ ⇒ > E % B B B ∽	X 🖆 🔳 ▾	
Address 🛃 WORKGROUP		•
Name	Comment	
📇 SC000034	Disk Server	
🖳 P3F6N8		



- 4. Double-click the icon for the Disk Server.
- 5. Right-click a folder (directory) to which you have access, and select *Map Network Drive*, as shown below.

📙 SC000034		2ip _ 🗆 🗙
<u>] E</u> ile <u>E</u> dit <u>V</u> iew	/ <u>G</u> o F <u>a</u> vorites <u>H</u> elp	
$] \Leftarrow \bullet \bullet \to \exists [,$	% B C Ω X ┏ Ⅲ ▼	
Address 💻 \\SC	000034	•
Name	Comment	
└─ HDD1 愛Laser-IIISi └─ public	For Administrator only SC000034_P1 (In Windows, right-click, select "Install For everyone (In Windows, right click, select "Map I	") Network Drive")
Map Netwo	ork Drive	? ×
<u>D</u> rive:	= :	ОК
<u>P</u> ath:	\\SC000034\public	Cancel
	🔽 Reconnect at logon	

Figure 14: Map Network Drive

- 6. Select a drive letter for this folder, and check the *Reconnect at Logon* checkbox. (If this is not done, the mapping will be lost when you shut down your PC.) Then click OK.
- 7. This drive will now be available in Windows Explorer, and from the *File-Open* or *File-Save As* dialog in all Windows applications.

Notes:

? ? When you try to access a folder, you may be prompted for a password, as shown below:

Enter Network	< Password	? ×
You must sup	oply a password to make this connection:	OK
Resource:	\\SC000034\HDD1	Cancel
<u>P</u> assword:		
☑ Save this	password in your password list	

Figure 15: Network Resource Password Dialog

If your Windows logon name is the same as your *user name* on the Disk Server, but the passwords are different, you can enter your Disk Server password here.

But if your Windows **logon name does not exist** on the Disk Server, you will have only *guest* access rights, and **there is no password** which you can enter in this dialog.

? ? When browsing the Disk Server using Windows Explorer or another file manager, you may see the following files, which have been generated by AppleTalk clients:

> .Apple Desktop .Apple Double Network Trash Folder

Do NOT delete these files!

Using the Disk Server's Printer

- 1. Find out what printer is connected to the printer port on the Disk Server.
- 2. User *Network Neighborhood* to locate the Disk Server, as shown in *Figure 13: Network Browse*.
- 3. Double-click the Disk Server icon. A printer icon should be shown.
- 4. Right-click the printer icon, and select Install. The Add Printer wizard will start.
- 5. Select the *Manufacturer* and *Printer* matching the printer connected to the Disk Server.
- 6. Follow the prompts to complete the installation.
- 7. The new printer will then appear in your Printer list, and can be used from any Windows application
 - ?? Use the normal Windows commands to manage the printer:
 - ?? Use Start Settings Printers to list all your printers.
 - ?? Double-click the printer to view or delete the documents in the print queue.
 - ?? Use File Set as Default to make the selected printer the default printer.
 - ?? Use *File Properties* to view or modify the properties of the selected printer.

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Requirements

To use the Disk Server, you require:

- ? ? Macintosh OS Version 7.5 or later, with AppleShare.
- ? ? The Disk Server Administrator must create a value *User Name* on the Disk Server for each Mac user. Otherwise, Mac users will only be able to access the Disk Server by using the *guest* login.

TCP/IP

Generally, no changes are required.

However, if you previously used a fixed (static) IP Address, but now wish to use the DHCP Server function in the Disk Server, you must change your TCP/IP settings to make your Mac a DHCP client. Use the procedure below.

To make your MAC a DHCP Client

- 1. Select Apple Control Panel TCP/IP.
- 2. Select Ethernet, then Setup, then DHCP.

Accessing Disk Storage

- 1. Select *Chooser* from the *Apple* menu.
- 2. Click the *AppleShare* icon.
- 3. If necessary, select the appropriate zone. (By default, the Disk Server is accessible from any zone.)
- 4. Select the Disk Server from the list of File Servers, and click OK.
- 5. In the *Log-in* dialog, enter your Name and Password. These must match the values stored on the Disk Server, or you will not be able to gain access. If the Disk Server Administrator has not created a *User Name* for you, click the *Guest* button. This will allow access to the *public* share.
- 6. A list of "Shares" (Disk Server folders) will be displayed. Use the checkbox to indicate which Shares you wish to access. If you select a Share to which you do not have access permission, you will see an error message.
- 7. Click OK to finish. An icon for each Share will appear on your desktop. You can use these like any other folders.

Using the Disk Server's Printer

- 1. In *Chooser*, select the printer type matching the printer connected to the Disk Server.
- 2. From the list on the right, select the Disk Server, then click *Create*. (Refer to *Troubleshooting* if the Disk Server's printer is not listed.)
- 3. The new printer will be created, and can be used like any other printer.

Note:

The *Printer Object Type*, and *LaserWriter/Other* setting, on the *Printer* tab of the *System* menu option, must be correct. See page Printer Setup for Macintosh on page 12 for details.

Changing your Password

Once the Disk Server Administrator has created a valid *User Name* on the Disk Server for you, you can use the following procedure to change your password.

- 1. Start your WEB browser.
- 2. In the Address box, enter:

HTTP://ip_address/user.pl

Where ip_address is the IP Address of the Disk Server, as in the following example:

HTTP://192.168.0.2/user.pl

If you do not know the IP Address of the Disk Server, ask the Disk Server administrator.

- 3. You will be prompted for your name and password. Enter your existing user name and password.
- 4. On the next screen, enter your new password.
- 5. Save, then close your Browser.

The password for the admin user can NOT be changed using this method. The Administrator interface must be used

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Windows

Problem 1:	The Disk Server Utility doesn't list any Disk Servers.
Solution 1:	Check the following:
	?? The Disk Server is properly installed, LAN connections are OK, and it is powered ON.
	?? Ensure that your PC and the Disk Server are on the same network segment. (If you don't have a router, this must be the case.)
	?? Ensure that your PC has the TCP/IP network protocol loaded. In Windows, this is done by using <i>Control Panel-Network</i> . If an entry for TCP/IP -> Network card is not listed, use <i>Add - Protocol - Microsoft - TCP/IP</i> to add it. You then need to select the new entry (TCP/IP -> Network card), elick <i>Proparties</i> and configure the <i>IP</i> Address to be
	?? If your LAN has a DHCP Server, you can select "Obtain an IP Address automatically".
	?? Otherwise, you must select "Specify an IP Address", and enter values for <i>IP Address</i> and <i>Subnet Mask</i> . The <i>IP Address</i> range commonly used is 192.168.0.1 to 192.168.0.254, with a <i>Subnet Mask</i> of 255.255.255.0. (The Disk Server's default IP Address is 192.168.0.2, with a Subnet Mask of 255.255.255.0). Remember that each device needs a unique IP Address, and the same Subnet Mask.
Problem 2:	Using the Disk Server Utility, the Disk Server is listed, but the <i>Admin</i> button doesn't work.
Solution 2:	This will happen if the Disk Server's IP Address is not compatible with your PC.
	Use the <i>Quick Setup</i> button to assign a compatible IP Address and Network Mask (Subnet Mask) to the Disk Server, then <i>Refresh</i> the listing.

Problem 3:	The Disk Server is configured, but I can't find it in <i>Network Neighborhood</i> .
Solution 3	Try using <i>Start - Find - Computer</i> , and enter the Disk Server's name. If this does not work, use <i>Control Panel - Network</i> to check the
	following:
	?? TCP/IP protocol is installed. If not, use <i>Add - Protocol - Microsoft - TCP/IP</i> to install it.
	 ?? Check the network Bindings: ?? Ensure the TCP/IP protocol is bound to your Network card (NIC). Select your Network card, click <i>Properties</i>, and then the <i>Bindings</i> tab. If TCP/IP is not bound (checked), check it.
	 ?? Ensure the TCP/IP -> Network card entry is bound to the Client for Microsoft Networks service. Select the TCP/IP entry for your Network Card, click Properties, and then the Bindings tab. If Client for Microsoft Networks is not bound (checked), check it.
	?? If you don't have a router, check that your IP Address is compatible with the Disk Server's. This means it needs to be from the same address range (e.g. 192.168.0.3 to 192.168.0.254) and using the same <i>Subnet Mask</i> (e.g. 255.255.255.0)
	?? If you DO have a router, check that your <i>Gateway IP Address</i> is set correctly. Ask your LAN administrator for the correct value.
Problem 4	When I click on the Disk Server icon in Network Neighborhood, I get prompted for a password.
Solution 4	This can happen in the following situations:
	?? The Logon name you used on your PC is recognized by the Disk Server, but the password is not. Simply enter your Disk Server password, or make your Windows password the same as the Disk Server password.
	?? The logon name you used on your PC is NOT recognized by the Disk Server, and was converted to guest, with guest access rights. Ask the Disk Server Administrator to create a user name for you. (Use the same name as on your PC.)
	?? You do NOT have access permission for this share.Ask the Disk Server Administrator to grant you access.
	Note : Windows uses the <i>Computer name</i> , as shown on <i>Control Panel</i> - <i>Network</i> - <i>Identification</i> , as the default <i>Logon Name</i> .

Problem 5	When using the Web interface, some of the data will not fit on the screen, and there is no scrollbar.
Solution 5	This will only happen if you use extra large fonts, either in your Browser or in Windows. You must reduce the font size:
	?? In your Browser, select <i>View - Fonts</i> to change the font size.
	 ?? In Windows, use Control Panel - Display - Settings - Advanced to change the font size. Either of the 2 standard settings - Small or Large (125%) - should work.
Problem 6	A print job does not print. No error message is di splayed.
Solution 6	This can happen if the amount of free disk space is not sufficient to spool (queue) the print job. Disk Usage can be checked using the <i>Status - Disk</i> screen on the <i>Administrator</i> interface. If this is the problem, you must delete some print jobs:
	?? Using the Administrator interface, select Status - Printer.
	?? Use the <i>Delete current job</i> to delete the current print job, or <i>Delete all jobs</i> to delete all print jobs.
	These options can also be used if for some reason a print job or jobs does not print correctly.

Macintosh

Problem 1:	Can't connect to the Disk Server to configure it.
Solution 1:	Check the following:
	?? The Disk Server is properly installed, LAN connections are OK, and it is powered ON.
	?? If your LAN has a router, ensure that your Mac and the Disk Server Device are on the same network segment.
	?? If any PC or device on the LAN is already using the Disk Server's default IP Address of 192.168.0.2, that PC or device must be turned OFF until the Disk Server is allocated a new IP Address.
	 ?? Ensure that your Mac is using an IP Address within the range 192.168.0.3 to 192.168.0.254 and thus compatible with the Disk Server's default IP Address of 192.168.0.2. Also, the <i>Subnet Mask</i> should be 255.255.255.0. This can be checked using <i>Apple - Control Panel - TCP/IP</i>.

Problem 2:	Disk Server's	printer is not]	listed on my Mac.
110010111 21	DISH DELVEL S	Primeer is not	instea on my mace

Solution 2:	 ?? On the Disk Server's System - Printer screen, check the Printer Object Type. If this is not correct, the Disk Server's printer will not be listed on the Macintosh. Check the Printer's User Manual for this data, or contact the printer supplier.
	?? On each Mac, check that the Printer Driver is installed. If not using a LaserWriter, each Mac must have the printer driver for the printer installed. Otherwise, the correct printer type can not be selected, so the Disk Server will not be listed.
Problem 3:	The printer does not work at all, or does not work properly.
Solution 3:	On the Disk Server System - Printer screen, check the following:
	?? Printer Connected to the Disk Server is set correctly ("Laser-Writer" or "Other").
	?? Printer Object Type is set correctly. If this is incorrect, then Mac clients may be able to select an incorrect printer.
Problem 4	The printer was working, but now it doesn't. The printer seems OK, and no error message is displayed.
Solution 4	This can happen if the amount of free disk space is not sufficient to spool (queue) the print job. Disk Usage can be checked using the <i>Status - Disk</i> screen on the <i>Administrator</i> interface. If this is the problem, you must delete some print jobs, as follows:
Solution 4	 This can happen if the amount of free disk space is not sufficient to spool (queue) the print job. Disk Usage can be checked using the <i>Status - Disk</i> screen on the <i>Administrator</i> interface. If this is the problem, you must delete some print jobs, as follows: ?? Using the <i>Administrator</i> interface, select <i>Status - Printer</i>.
Solution 4	 This can happen if the amount of free disk space is not sufficient to spool (queue) the print job. Disk Usage can be checked using the <i>Status - Disk</i> screen on the <i>Administrator</i> interface. If this is the problem, you must delete some print jobs, as follows: ?? Using the <i>Administrator</i> interface, select <i>Status - Printer</i>. ?? Use the <i>Delete current job</i> to delete the current print job, or <i>Delete all jobs</i> to delete all print jobs.
Solution 4	 This can happen if the amount of free disk space is not sufficient to spool (queue) the print job. Disk Usage can be checked using the <i>Status - Disk</i> screen on the <i>Administrator</i> interface. If this is the problem, you must delete some print jobs, as follows: ?? Using the <i>Administrator</i> interface, select <i>Status - Printer</i>. ?? Use the <i>Delete current job</i> to delete the current print job, or <i>Delete all jobs</i> to delete all print jobs. These options can als o be used if for some reason a print job or jobs does not print correctly.
Solution 4 Problem 5	 This can happen if the amount of free disk space is not sufficient to spool (queue) the print job. Disk Usage can be checked using the <i>Status - Disk</i> screen on the <i>Administrator</i> interface. If this is the problem, you must delete some print jobs, as follows: ?? Using the <i>Administrator</i> interface, select <i>Status - Printer</i>. ?? Use the <i>Delete current job</i> to delete the current print job, or <i>Delete all jobs</i> to delete all print jobs. These options can als o be used if for some reason a print job or jobs does not print correctly. When using the Web interface, some of the data will not fit on the screen, and there is no scrollbar.