Disk On-line Server

QNAP Systems, Inc.

NAS-110

User Manual

Broadband Network Attached Storage NAS-110 User Manual (Version: 1.00)



©Copyright 2004. QNAP Systems, Inc. All Rights Reserved. This manual applies to 1.00 or later firmware versions of NAS-110. August 12, 2004

CUSTOMER SERVICE

To obtain service or technical support for your system, please refer to the registration card for detailed contacts.

LIMITED WARRANTY

In no event shall the liability of QNAP Systems, Inc. (QNAP) exceed the price paid for the product from direct, indirect, special, incidental, or consequential software, or its documentation. QNAP offers no refunds for its products. QNAP makes no warranty or representation, expressed, implied, or statutory, with respect to its products or the contents or use of this documentation and all accompanying software, and specifically disclaims its quality, performance, merchantability, or fitness for any particular purpose. QNAP reserves the right to revise or update its products, software, or documentation without obligation to notify any individual or entity.

CAUTION

- 1. Back up your system periodically to avoid any potential data loss.
- 2. Should you return any components of Disk On-line Server package for refund or maintenance, make sure they are carefully packed for shipping. Any form of damages due to improper packaging will not be compensated.

Table of Contents

Chapte	er 1 Overview of Disk On-line Server	5
1.1	Introduction	5
1.2	Package Contents	5
1.3	System Overview	6
Chapte	er 2 Installation of Disk On-line Server	7
2.1	Hardware Installation	7
2.2	Network Configuration	8
Chapte	er 3 Administration of Disk On-line Server	9
3.1	Accessing Administration Page	9
3.2	Server Administration	. 11
3.3	Quick Configuration	. 12
3.4	System Settings	. 18
3.5	Network Settings	. 21
3.6	Disk Configuration	. 26
3.7	User Management	. 29
3.8	Network Share Management	. 33
3.9	System Tools	. 35
3.10	Statistics & Logs	43
Chapte	er 4 Accessing Disk On-line Server	44
4.1	Using Microsoft Windows	.44
4.2	Using Apple Mac OS	.46
4.3	Using Unix/ Linux OS	52
4.4	Using File Transfer Protocol (FTP)	. 52
Chapte	er 5 Disk On-line Server— Maintenance	53
5.1	Shut down/ Restart the Server	53
5.2	Reset Administrator Password and Network Settings	53
5.3	Disk Failure or Malfunction	. 54
5.4	Power Outage or Abnormal Shutdown	. 54
Appen	dix A Quick Install Wizard	55
Appen	dix B NetBak Replicator	62

Chapter 1 Overview of Disk On-line Server

1.1 Introduction

Thank you for choosing Disk On-line Server (NAS). This product offers the following key features:

- Cross-platform file server / FTP server
- 1 x 3.5" IDE HDD
- Maximum disk capacity up to 300GB
- Portable and mini design
- Share your storage over Microsoft, Unix and Apple network
- Reliable data protection

Note: NAS-110 does not support IP sharing and AP function.

1.2 Package Contents

Your NAS package contains:

- Disk On-line Server (stands inclusive)
- Power cable
- Cat-5 Ethernet cable
- Companion CD (user manual, Quick Install Wizard and software inclusive)
- Quick Installation Guide

Important Notice: Please back up your disk data periodically to avoid data loss due to improper operation or disk failure of Disk On-line Server.

1.3 System Overview

Front View



Rear View



Chapter 2 Installation of Disk On-line Server

2.1 Hardware Installation



Note:

- 1. You can connect NAS-110 to a PC via the LAN port. When doing so, please do NOT press the crossover switch.
- 2. You can select to place NAS-110 vertically by putting the server on the purple stands.



2.2 Network Configuration

The factory default settings of your Disk On-line Server will search the network via DHCP (Dynamic Host Configuration Protocol) to automatically detect IP address settings. If your network does not support the DHCP protocol, the Disk On-line Server will use the default settings listed below:

IP Address: **192.168.0.1** Subnet Mask: **255.255.255.0**

If your network does not support the DHCP protocol, you must configure your Disk On-line Server to the proper LAN settings before using it for the first time. (If you do not know your LAN settings, please contact your network administrator).

You can change the default network settings of Disk On-line Server by using the Quick Install Wizard on the CD-ROM to change the basic network settings. For more information, see Appendix A.

Once you complete the Disk On-line Server settings, you can use your web browser to perform further administrative settings.

Chapter 3 Administration of Disk On-line Server

When you have installed the Disk On-line Server and connected it to the network, you can use your browser to complete administrative tasks for the server. Disk On-line Server supports Microsoft Internet Explorer 5.0 or later and Netscape Navigator 4.5 or later. Microsoft Internet Explorer 5.5 is recommended.

3.1 Accessing Administration Page

You can access your Disk On-line Server via the following method:

1. Use the Quick Install Wizard (see Appendix A) and double-click an entry on the list.

Quick Install Wizard							
Disk On-line Server V							
Name	IP Address	Workgroup	Version				
NAS-110-02	172.17.26.94	NAS	1.00				
NAS900030	172.17.27.91	NAS	2.27				
QA4100	172.17.27.82	NAS	2.27				
NAS1	172.17.26.53	NAS	2.27				
NAS4100	172.17.26.44	NAS	2.27				
NAS2100	172.17.26.12	NAS	2.27				
AV8D	172.17.27.99	NAS	2.27				
NAS56F061	172.17.26.102	NAS	2.27				
NAS04CD94	172.17.26.84	NAS	2.27				
NAS100E42	172.17.26.125	NAS	2.27				
NAS6B9B4E	172.17.26.52	NAS	2.27 💌				
<u>C</u> onfigure <u>D</u> etails	Map Drive E	lefresh <u>H</u>	elp E <u>x</u> it				

2. On the home page of your Disk On-line Server, click **Administration**.

NAS-110 20
Share your stronge over Microsoft, Unix and Apple network. Protect your stronge over Microsoft, Unix and Apple network. Exclusion strong is simple web interface.
Version 1.00 Build 07077

3. Enter the administrator name and password.

Enter Net	work Passwo	rd				? ×
? >	Please type yo	ur user r	name and	l password.		
2	Site:	192.16	8.1.254			
	Realm					
	<u>U</u> ser Name	Adminis	trator			
	<u>P</u> assword	****				
	🔽 Save this p	assword	l in your p	bassword list		
				ок	2 _	Cancel

The default user name and password are:

User name: administrator

${\sf Password}\colon {\bf admin}$

The first time you login to the administration page of Disk On-line Server, Quick Configuration page will appear. Please refer to Quick Configuration section for details.

3.2 Server Administration

System administration comprises of the following eight main sections.



3.3 Quick Configuration

NAS9566E4	
Quick Configuration	
Welcome	
 Step 1 	Welcome
Step 2	weicome
 Step 3 	
 Stop 4 	
 Step 5 	Welcome to the quick configuration woard. This woard will guide you through the following steps to
 Step 6 	couldrise (un stateu dincy):
 Step 7 	1. Enter the name, workgroup and description for this server.
 Stop 8 	2. Change the administrator's password.
Step 9	
• Frith	Enter the date, time and time rone for this server.
	4. Select the language that this server will use for file names.
	5. Enter the IP address, subnet mask and default gateway for the server
	6. Select the network file services that you want to provide on this server.
	7. Configure dak volume on this server.
	0. Manage users and user groups for this server.
	9. Manage network shares on this server.
	Centrue

You can configure Disk On-line Server step by step in Quick Configuration section.

1. Set the name, workgroup and description for this server.

1 Set the name, server	Set the name, workgroup and description for this server						
Server Name : Workgroup : Description :	NAS-110-test NAS NAS Server						
		Back	Next				

2. Change administrator password.

Password :		****		
Verify Password :				
🔲 Use the original	l password			

3. Enter date, time, and time zone for the server.

3 Enter the date, time and time zone for this server					
Time Zone :	(GMT) Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London 💌				
Current date and time of the server :	1970 / 1 / 1 AM 04 : 31 : 15				
Change the server's time and date as below:	ŧ				
Date:	January 🔽 🗾 , 🦳 (mm dd, yyyy)				
Time:	: AM 🗹 (hh:mm:ss)				
	Back Next				

4. Select the language that the server uses for file names.

4 .	Select the language that this server will use for file names				
Languag	e:	English		•	
			Back	Next	

5. Enter the IP address, subnet mask and default gateway for this server.

<mark>5</mark> .	Enter the IP a gateway for t	address, subnet mask and default this server	
	• Obtain TCP/IP setting	igs automatically via DHCP	
	O Use the following set	ttings	
	IP Address:	192 , 168 , 0 , 1	
	Subnet Mask:	255 . 255 . 255 . 0	
	Default Gateway:		
1	Note: If you don't need a	a default gateway for this server, please enter "0.0.0.0".	
		Back	ext
1	IP Address: Subnet Mask: Default Gateway: Note: If you don't need a	192 168 1 255 255 255 0 0 0 0 0 a default gateway for this server, please enter "0.0.0.0". Back Ne	xt

6. Select network file services to provide on this server

<mark>6</mark> .	Select the network file services that you want to provide on this server
র র ব	Enable file service for Microsoft networking Enable AppleTalk file service for Apple networking Enable NFS service Enable FTP Service
	Back Next

7. Configure disk volume.

7 Configure disk volume on this server						
You can click on the configuration you want in Volume Configuration list is the current disk	n the New Disk Volur < volume configuration	ne Configuration list. on this server.	The Current Disk			
New Disk	Volume Conf	iguration				
Single Disk Volume Same configuration as the current one.						
Current Dis	sk Volume Cor	nfiguration				
Volume	Total Size	Free Size	Status			
Single Disk: Drive 1 74836.73 MB 74804.67 MB Ready						
Back Next						

8. Manage users and user groups of this server.

8 Manage use If you want to add one user, en remove one or more users, choo administrator hulala test	rs of this server Iter the user's data in the right be one or more users from the User Name Add Password Remove Verify Passw Note: For in be at least	fields then di eleft list then /ord 6 characters	ck Add, If you wa click Remove, urity, password 3.	ant to I should
			Back	Next
If you want to add one user group more users to add to the group user groups, choose one or more administrators everyone user	pup, enter the user group's nar from the right list, then click A e user groups from the left list Add Remove	ne in the right dd. If you war and then click User Group N administrat hulala test	: fields, choose or nt to remove one Remove. Jame	users to add
			Back	Next

9. Manage network shares on this server.

9 Manage network shares on this server
If you want to add one network share, first enter the network share's data in the right fields then click Add. If you want to remove one or more network shares, select the shares in the left list then click Remove. Network Share Name Add Volume Remove Single Disk: Drive1
Back Next

10. Finish.

Finish		
Congratulations! You have finished all the steps. To start using the server, please click Finish. If you wish to continue making changes to the settings, please click Back.		
 Back		

It may take several to tens of minutes to complete Quick Configuration, depending on your system settings.

3.4 System Settings

Basic system settings include the server name, date, time, and language settings.

• Server Name

Assign a unique name for your Disk On-line Server for ease of identification within the local network. The server name can contain up to 14 characters, which can be a combination of letters (A-Z or a-z), numbers (0-9) and hyphens (-). The server will not accept names containing empty characters, period (.), or names with only numbers.

Next, configure your Disk On-line Server to the workgroup. The workgroup represents a basic computer group within the Microsoft Network. Files are normally shared within the group. Workgroups can accommodate as much as 15 characters but must exclude the following characters:

;:"<>*+=\|?,[]/

The first character cannot be a period (.). For the convenience of management and usage, please set your Disk On-line Server and attached computer(s) in the same workgroup.

Moreover, you can enter a description for Disk On-line Server, such as administrator name, department, or location, for ease of identification by users.

B NAS-110-test System Settings			
Server Name Date & Time	Server Name		
Language Setting View System Settings	Server Names Workgroup: Description:	NAS NAS NAS Server	
	-		Apply

• Date and Time

- 1. Set the date, time, and time zone according to your location. If the settings are incorrect, the following problems may occur:
 - ✓ When using a web browser to access or save a file, the time of the file accessed or saved may be out of sync.
 - ✓ The system event log time will be incorrect compared to the actual time an action occurred.
- 2. Configure NTP server or client setting
 - ✓ User specified NTP server

Select this option to change the date and time of NAS by NTP server. Enter the IP address and time interval for the NTP server.

✓ Enable NTP server

Select this option to enable NTP server. Enter the IP address of the corresponding NTP server. You can click **Test** to test the status of the server. If no IP address of NTP server is entered, the system will refer to the time of the internal clock.

System Settings	
Server Name	Date & Time
Date & Time	Sole a fille
Language Setting	Time Zone: (GMT) Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London
View System Settings	Current date and time of the 1970 / 1 / 1 AM 04 : 59 : 34
	Change date and time manually Date January Time January (MM DD, YYYY) Time Configure NTP server or clent setting Use the specified NTP server IP Address of NTP Server IP Address of NTP Server The Interval Fine I
	Apply

• Language Setting

The server is based on the language settings and uses it accordingly while creating or displaying files and directories. Select the correct language settings to avoid the following problems:

- i. Unable to create files or directories in special characters.
- ii. Unable to display files or directories name in special characters.

System Settings			
Server Name			
Date & Time	Language Setting		
Language Setting			
View System Settings	Language:	English	
		English	
		Western Europe/Latin 1	
		Slavic/Latin 2	
		Icelandic	Apply
		Cyrillic	
		Japanese	
		Chinese-Simplified	
		Korean	
		Chinese-Traditional	

• View System Settings

You can view all current system settings on this page, e.g. server name and workgroup.

ystem Settings		
erver Name		
ate & Time	View System Settings	
anguage Setting	Server Name	
lew System Settings	Server Name	NAS-110-test
	Workgroup Name	NAS
	Description	NAS Server
	Date & Time	
	Date	January 1, 1970
	Time	5:11:50 AM
	Time Zone	(GMT) Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London
	Language	
	Code Page	English (437)
	System Informa	tion
	Version	1.00 Build 0610

3.5 Network Settings

The network settings include TCP/IP configuration for WAN and LAN, network service settings, router and firewall configuration, etc.

1. TCP/IP Configuration

You can select one of the two ways to set TCP/IP configuration:

twork Settings	
Magazett Networking	TCP/IP Configuration
Apple Networking NPS Sorvicu PTP Service View Network Settings	Obtain 3P address settings automatically via DHCP Use static IP address Field IP Address Submit Mask 255.255.255.0.0 Default Gateway Defa

- Obtain IP address settings automatically via DHCP
 Select this option to obtain IP address and other relevant information automatically if your network supports DHCP protocol.
- Use static IP address

To use fixed IP address for network connection, you need to enter the following information:

✓ Fixed IP Address

IP address is a 32-bit digit used to differentiate each single entity on a network. The IP address is divided into 4 groups of eight bits separated by dots, e.g. 192.168.0.1.

- ✓ Subnet Mask
 Subnet mask defines computers within the same local network. It is a 32-bit digit, e.g. 255.xxx.xxx.
- ✓ Default Gateway

Gateway is generally referred to an interchange point that connects two networks, such as LAN and WAN.

✓ If you do not need to configure gateway address, please set it as "0.0.0.0".

You can also configure the following settings:

- ✓ Enable DHCP server
 If there is no DHCP server in your network, you can enable this option to provide IP address settings to the requested clients.
- ✓ Start IP address
 The first IP address to be dynamically allocated for DHCP service.
- ✓ End IP address
 The last IP address to be dynamically allocated for DHCP service.
- ✓ Lease time
 Define the lease time for the dynamic IP address.
- ✓ Primary DNS server

When the system allocates an IP address to your computer, the primary DNS server address is also specified to it.

✓ Secondary DNS Server

When the system allocates an IP address to your computer, the secondary DNS server address is also specified to it.

2. Microsoft Networking

Network Settings	
TCP/IP Configuration Microsoft Networking	Microsoft Networking
Apple Networking NFS Service FTP Service View Network Settings	Enable file service for Microsoft networking Workgroup Enable WINS server Use the specified WINS server WINS server IP address 0 , 0 , 0 , 0
	Apply

When using Microsoft Windows, you must enable Microsoft networking to access the files on the network share folders. After selecting the option, you must assign the workgroup name, which can be up to 15 characters but must exclude the following:

" + = [],;/\:|*?<>."

Note that the first character cannot be a period (.).

To configure Disk On-line Server as a WINS (Windows Internet Naming Service) server, check the option "Enable WINS server". This will help you to easily locate this server within Windows network neighborhood. You may also enter the IP address of you WIN server (if any). If you do not want to enable WINS server support, or you do not have a WINS server on your network, enter 0.0.0.0 in the field for WINS server IP address.

3. Apple Networking

Enable this option if you are using Apple's Macintosh operating system.

If your AppleTalk network uses extended networks, which assigns multiple zones, please assign a zone name. The zone name must not exceed 15 characters and cannot contain the characters:

"/\:|?<>

If you do not want to assign a network zone, enter an asterisk (*), i.e. the default setting.

Network Settings	
TCP/IP Configuration	
 Microsoft Networking 	Apple Networking
Apple Networking	
NFS Service	Enable AppleTalk file service for Apple networking
FTP Service	Zone
View Network Settings	
	Apply

4. NFS Service

Enable NFS service if you are using Unix/ Linux operating system. This system supports NFS version 2.0. To use NFS correctly, you must assign user's UID and IP address. Please go to NFS settings for Users in User Management to modify the settings.

Network Settings	
TCP/IP Configuration	
 Microsoft Networking 	NFS Service
Apple Networking	
NFS Service	Enable NFS Service
FTP Service	
 View Network Settings 	
	Apply

5. FTP Service

To access network share folders via FTP, enable this option.

Network Settings	
TCP/IP Configuration	
 Microsoft Networking 	FTP Service
Apple Networking	
NFS Service	✓ Enable FTP Service
FTP Service	Port Number
View Network Settings	Maximum Connections 30
	Apply

6. View Network Settings

You can view all current network and service settings of Disk On-line Server

on this page.			
Network Settings			
 TCP/IP Configuration 			
 Microsoft Networking 	Network	Network File Services	
 Apple Networking 	LAN Configuration		
 NPS Service 	Connection Type	DHCP	
FTP Service	IP Address	172.17.26.27	
 View Network Settings 	Subnet Mask	255.255.254.0	
	Default Gateway	172.17.26.1	
	MAC Address	00:40:01:01:01:11	
	Connection Status	Ready	
	DHCP Service		
	Enabled	No	
	Address Range	192.168.0.100-192.168.0.200	
	Lease Time	1 Day(s) 0 Hour(s)	
			Com.
			Liose

Network	Network File Services
Microsoft Networking	
Enabled	Yes
Workgroup Name	NAS
WINS IP Address	0.0.0.0
Apple Networking	
Enabled	Yes
Apple Zone Name	*
Unix/Linux NFS	
Enabled	Yes
FTP Service	
Enabled	Yes
Port Number	21
Max Connections	30

3.6 Disk Configuration

• Create disk volume

Single disk volume: Create an individual disk volume. When the disk is damaged, the data will be lost.

NAS-110-test	
Oreate Disk Volume	Create Disk Volume
Example Disk Volume Format Disk Volume	
View Disk & Volume Status	Single Disk Volume
	Create an individual dati volume

• Examine disk volume

This section enables you to examine the disk volume. To check the disk, select the disk volume and click **OK**. You can also check the box **Fix errors** to resolve the errors found during checking. To see all active shares and users on the disk volume, click **Show Shares**.

Disk Configuration					
Create Disk Volume	R ando	- Pick web-			
Examine Disk Volume	Examin	e Disk Volume			
Format Disk Volume					
View Disk & Volume Status	opt Wa Not you	ion to resolve errors automatically s rning: All active users on this disk vo te: You can click Show Shares to a choose.	build any be found dur iume wil be terminated see all the active sh	di ares and users on	the disk volume
	v	olume	Total Size	Free Size	Status
	0	Single Disk: Drive1	74836.73 MB	74904.67 MB	Ready
	9	Fix errors			
			L L L L L L L L L L L L L L L L L L L	04	Cancel Chow 9

✓ Disk Volume Operation Report

This page shows the current status and information of the ongoing disk volume operation.

Disk Configuration		
Create Disk Volume Examine Disk Volume		Disk Volume Operation Report
Format Disk Volume	Operation Type	Examine Disk Volume
View Disk & Volume Status	Source Disk Volume	Single Disk: Drive 1
	Target Disk Volume	-
	Status	Checking
	Result	-
	Comment	This operation may take several minutes or hours depending on the disk capacity.
	Note: This page will a page, you can still vi	automatically refresh every 5 seconds. If you click Close to leave this ew the results later on by going to the View Disk & Volume Status page.
		Close

• Format disk volume

When creating a disk volume, it is formatted automatically. You can then create network shares to access files on it directly. If you choose to format a disk, all data and network shares on the disk volume will be removed.

Disk Configuration					
Create Disk Volume Examine Disk Volume	Format	Disk Volume			
Format Disk Volume View Disk & Volume Status	Plea War this Not you	Please choose the disk volume you want to format and click 'OK' button. Warning: All data and network shares on the disk volume you select will be removed! All active users on this disk volume will also be terminated! Note: You can click Show Shares to see all the active shares and users on the disk volume you choose.			di Ali active users on he disk volume
	Ve	blume	Total Size	Free Size	Status
	6	Single Disk: Drive1	74836.73 MB	74804.67 MB	Ready
				Ok C	ancel Show Shares

To view all active share and users on the disk volume, click **Show Shares**.

• View disk & volume status

You can view the current status and usage of all physical hard drives and logical disk drives on the system. If you have just created or deleted a disk volume, you may have to wait before you can see the result.

Disk Configuration				
Create Disk Volume				
Examine Disk Volume		Distance Dis		
Format Disk Volume		Physical Dis	iks	
 View Disk & Volume Status 	Disk	Model	Capacity	Status
	Drive 1	WDC WD80088-S3DKA0 77.0	76319.09MB	Ready
		Logical Volur	nes	
	Volume	Logical Volur Total Size	Tree Size	Status
	Volume Single Didk: Drive 1	Logical Volur Total Size L 74836.73 MB	THES Free Size 74804.66 MB	Status Ready
	Volume Single Did:: Drive 1	Logical Volur Total Size L 74836.73 MB	TTES Free Size 74804.66 MB	Status Ready
	Volume Single Did:: Drive 1	Logical Volur Total Size L 74836.73 MB	THES Free Size 74804.66 MB	Status Ready
	Volume Single Did:: Drive 1	Logical Volur Total Size L 74836.73 MB	THES Free Size 74804.66 MB	Status Ready

Note: Make sure no users are connected to Disk On-line Server when configuring hard disk settings. Otherwise, the data in the hard disk will be damaged and cannot be used again.

3.7 User Management

Disk On-line Server can be shared by multiple users. For easier management and better control of users' access right, you have to organize users, user groups and their access right control.



• Users

The default user accounts created by factory default are:

Administrator

Administrator is the default user of the administrator group created by Disk On-line Server with administrator access right. You cannot delete administrator.

Guest

When you use a non-registered user name to login, the server recognizes it as a guest and will allow limited access. A guest does not belong to any user group. You cannot delete the user guest or create a password.

Anonymous

When you connect to the server by FTP service, you can use the name to login as a guest. You cannot delete this user or change its password. You can create a new user according to your needs. The following information is required to create a new user:

1. User name

The user name must not exceed 32 characters. It is case-insensitive and can contain double-byte characters, such as Chinese, Japanese, and Korean, except the characters below:

" / \ [] : ; | = , + * ? < > ` '

2. Password

The password must not exceed 16 characters. Due to security concerns, the password must be at least 6 characters. Try to avoid using codes that are easily decipherable.

You can also manage users in the following ways:

- ✓ Create
- ✓ Create multiple users
- ✓ Change password
- ✓ Create private network share
- ✓ Assign user groups
- ✓ NFS settings
- ✓ Quota settings
- ✓ Backup/ restore user settings

• User groups

To administer access rights, you can create user groups. User groups are a collection of users with the same access rights to files or folders. Disk Online Server contains the following default user groups:

Administrators

All members of the administrator group have the rights to perform system management. You cannot delete the administrator user group.

Everyone

All registered users belongs to everyone group. You cannot delete the user group "everyone" or any users belonging to that group.



You can administer user group with the following options:

- ✓ Create User Groups
- ✓ Create Private Network Share
- ✓ Assign Users
- ✓ Delete User Groups

User groups name must not exceed 256 characters. It is case insensitive and can contain double-byte characters, such as Chinese, Japanese, and Korean, except the characters below:

" / \ [] : ; | = , + * ? < > ` '

To properly manage security, it is very important to manage users and user groups. You may set the share access parameters of each user or user group accordingly.

• Quota

To allocate disk volume efficiently, you can specify the quota that can be used by each user. When the quota is set, users are not allowed to further use disk space once they have reached their quota limit. By default, no limitations are set for the users. You can modify the following two options:

✓ Enable quota for all users

✓ Quota size on each disk volume

User Management	
Users	Durate
User Groups	Q0018
Quota	
Backup / Restore User Settings	Enable quota for al users Quota size on each disk volume Note: Individual user quota size can be changed in Users * Quota Settings
	Ok Show Quotas

• Backup/ Restore User Settings

You can back up all current user settings to your computer, or restore data to your Disk On-line Server.

User Management	
Users User Groups	Backup / Restore User Settings
Quota Backup / Restore User Settings	To backup user and user group settings, please click 'Backup' button. The system will ask you to save or open the backup image file, please choose to save it. To restore user and user group settings, please click 'Browse' button to choose the backup image file you want to restore. Then click 'Restore' button.
	Restore Backup

3.8 Network Share Management

The primary purpose of network storage is file sharing. In a standard operation environment, you can create different network share folders for various types of files, or provide different file access rights to users or user groups. By factory default, a "public" share folder is created. The share folder gives full access to all users or guests.

Network Share Management		
Network Share Management	1. Network Shares	2. Settinos
Create		
Property Access Control		
Delete		Create Create a network share
		Property Onange the name, path and comment of a network share
		Or Set access right for a network share
		Remove a network share

There are four options in Network Share Management:

- i. Create a network share
- ii. Change the name, path and comment of a network share
- iii. Set access right for a network share
- iv. Remove a network share

• Create

When creating a network share, enter the following information:

✓ Network share name

The share name must not exceed 12 characters and cannot contain the following characters:

".+=/\:|*?<>;[]%

✓ Disk volume

This area shows the disk volume status.

✓ Path

All data are stored under the assigned path onto the disk volume. You can select "Specify Path Automatically" to allow the server to automatically create a new path on the disk volume to store network share files. Or you can assign a specific path for the share folder. The path cannot exceed 256 characters and cannot contain the characters: " \ : | * ? < > ; ` '

✓ Comment

The Comment field allows a brief description of the share folder to help users identify its purpose in a network neighborhood window. The comment cannot exceed 128 characters.

Network Share Management	
Network Share Management Create	Create
Create Property Access Control Delete	Network Share Name Single Disk: Drive1 Disk Volume Single Disk: Drive1 Path © Specify path automatically © Enter path manually Browse Comment Image: Comment in the service of the se
	Continue to set access right for this network share

Once the network share is created, you can assign access rights to users or user groups:

✓ Deny access

Access to the network share will be denied when this option is selected.

✓ Read only

Users can read the files only on the network share when read only is assigned.

✓ Full access

Users with full access are allowed to read, write, create, or delete files and folders on the network share.

Network Share Management Create	Access Control
Property	Users/Groups that are Users/Groups that are not configured with access right to configured with access right to
Access Control Delete	Lost Lost ===User Group=== administrators(Full access) everyone(Full access) Remove Add Add Permission Full access
	Guest Access Right:
	Occe

3.9 System Tools

System Tools enables you to optimize the maintenance and management of Disk On-line Server.

• SNMP Settings

To use Simple Network Management Protocol (SNMP) to manage the Disk Online Server's network components, enable SNMP service.

	0 0 0 0 0 0 0
NAS-110-test	
System Tooks	
 SNMP Settings 	
 Alert Notification 	SMIP Service Setting
Restart / Shutdown	
Hardware Settings	Enable SMMP Service
• UPS	Community Name
System Update	System Contact
Change Logo	System Location
Remote Replication	
	SNMP Trap Setting
	Enable SMMP Trap Notification
	Community Name
	Transland ID Address
	1 Date a rest order respective
	(Apply 1)

• Alert Notification

Enter the e-mail address that and the IP address of SMTP server to which an e-mail will be sent in case of warning or malfunction.

System Tools		
 SNMP Settings 	Alex Marking Alex	
 Alert Notification 	Alert Notification	
Restart / Shutdown		
 Hardware Settings 	Alert level:	C High: Send e-mail on errors or warning events
UPS		Medium: Send e-mail only on critical errors
System Update		 Low: No alert e-mail will be sent
Change Logo	E-mail (SMTP) server IP	
Remote Replication	address:	1255 1255 1255
	E-mail address 1:	
	E-mail address 2:	
	Send a test E-mail	
		Apply

• Restart/ Shutdown

Select to restart or shut down Disk On-line Server.

System Tools		
 SNMP Settings 		
 Alert Notification 	Restart / Shutdown	
Restart / Shutdown	To control the second shift the franket is then	
Hardware Settings	To restart the server, click the kestart button.	
• UPS	To power off the server, click the Shutdown button.	
System Update		
Change Logo		
Remote Replication		
	Restart Shuto	
Hardware Settings

You can enable or disable the hardware functions of Disk On-line Server.

- Enable configuration reset switch
 Press the reset switch of Disk On-line Server for a few seconds, the
 administrator password and network configuration of the server will be
 restored to default.
- 2. Enable hard disk standby mode

Specify the time for the hard disk to turn to standby mode when there is no access to Disk On-line Server.

System Tools	
SNMP Settings Alert Notification	Hardware Settings
Restart / Shutdown	Enable configuration reset switch
UPS	Enable hard disk standby mode (if no access within 5 minutes)
System Update Change Logo	10 minutes 15 minutes
Remote Replication	20 minutes 30 minutes 1 hour
	2 hours 3 hours
	4 hours 5 hours

UPS

By enabling UPS (Uninterruptible Power Supply) support, you can protect your system from abnormal system shutdown caused by power outage. In case of utility power failure, the system will shut down automatically by probing the power status of the connected UPS unit.

✓ Enable UPS support

To activate UPS support, select this option. You can set the shutdown timer to power off the system automatically after the system detects the AC power is abnormal. In general, UPS can keep supplying the power for the system for about 5 to 10 minutes, depending on the maximum load of the UPS and the number of the loads connected to it.

UPS Model

Select the UPS model from the list. If the UPS model you are using is not available on the list, please contact our technical support.

UPS IP

If you have selected APC UPS with SNMP for UPS model, enter the IP address of the UPS.

System Tools	
 SMMP Settings 	ups
Alert Notification	
Restart / Shutdown	Enable UPS Support
Hardware Settings	The surface will be deutedown in $\frac{5}{5}$ mixet $a(c)$ when the AC power status is showing
• UPS	The system will be should write point in minute(s) when the AL power status is abromia.
System Update	UPS Model APC UPS with SNMP Management
Change Logo	ups go 0 0 0
Remote Replication	
	AC Power Status:
	Battery Power Status:
	After selecting the UPS model, please click the [Test] button to make sure that your selection is correct.
	Refresh Apply

Note: If you do not select Enable UPS support, the Test button will not function.

• System Update

To update the firmware version of Disk On-line Server, make sure the image file you want to update is of correct version. It is suggested to back up all existing data on the Disk On-line Server before updating the image. The current settings will remain unchanged after the system is upgraded.

System Tools	
 SNMP Settings 	
 Alert Notification 	System Opdate
Restart / Shutdown	To conduct the extrem relevant obtains a new income the and these olds Theorem 1 to exactly the the
Hardware Settings	location. Finally, click 'Update System' to proceed with the update.
• UPS	Current system version: 1.00 Build 0610
System Update	
Change Logo	Warning: Make sure to choose the correct image file before clicking 'Update System'.
Remote Replication	Browse
	Update System

• Change Logo

You can upload an image file to the top right hand corner of the login page for Disk On-line Server. Make sure the image size is less than 20K and the file type is supported by the web browser.

System Tools	
 SNMP Settings 	Channe Loop
Alert Notification	change corp.
Restart / Shutdown	Diase select an image from the ITo be displayed) rul-down meru. Then dick the [Apply] button to
 Hardware Settings 	confirm the change.
UPS	You also can upload your own image. Please click the 'Browse' button to select an image first. Then click
 System Update 	the Upload button to upload it.
Change Logo	At last, select the image you want to replace from the [To be replaced to] pul-down menu and then click the [Anode] button to replace it
Remote Replication	
	Upload new image: Upload
	To be replaced to: Not replace Replace
	To be displayed: Image 1 💌
	Image 1 Image 2 Upload Image
	inspe 3 inspe 4 inspe 4
	Note: To perform the best image quality, the size of the upload image is recommended to be 100 X 100 pixels.
	test

• Remote Replication

Remote Replication enables you to replicate local files to remote folders on another server. The files will be compressed before the replication process in order to save time for data transfer. The system enables the choices for immediate and scheduled replication.

Using Remote Replication

Login Disk On-line Server, go to Remote Replication in System Tools.

	(D) (B)				
NA59506E4					
System Tools					
STAMP Settings					
Alert Notification	L Na	rw 1	Delete	1	Edit 1
Restart / Shutdown	1		1	J	-
Hardware Settings	Job Name	Sd	redule		Status
• UPS					
System Update					
Change Logo					
Remote Replication					

i. New

a. Click **New** to enter the following page.

1	Vew Delete	Edit
Job Name	Schedule	Status

System Tools	
 SNMP Settings 	Add a remote replication job
Alert Notification	nou a remote represent po
 Restart / Shutdown 	Joh Nama
Hardware Settings	Jub Nane
UPS	Remote Destination
System Update	Remote Host Name / IP Address
Change Logo	Destination Path (Network Share/Directory)
Remote Replication	User Name
	Discussed
	Table
	Remote Host Testing (Status:-)
	Local Source
	Source Path (Network Share/Directory) test 💌 /
	Replicate Now
	Replication Schedule 00 Hours 00 Minute
	C Daily
	C Weekly Monday
	C Monthly 01 Z Day
	Activate the file compression
	Stop network file services while replicating
	Perform incremental replication
	Delete extra files on remote destination
	Ok Cancel

b. Complete all settings and click **OK** to save or **Cancel** to quit.

Note: To use remote replication, enable Microsoft Networking service, make sure the destination network share and directory have been created, and the user name and password are valid to login the destination folder.

ii. Edit

- a. Select the job to be edited.
- b. Click Edit.
- c. Modify the settings.
- d. Click **OK** to save or **Cancel** to quit.

	New Delete	Edit
Job Name	Schedule 10:25 - Replicate Now	Status Replicating
System Tools • SNMP Settings • Alert Notification • Restart / Shutdown • Hardware Settings • UPS	Edit a remote replication job Job Name	test
System Update Change Logo Remote Replication	Remote Destination Remote Host Name / IP Address Destination Path (Network Share/Directory) User Name Password Remote Host Testing	172.17.21.1 public / labc abc
	Local Source Source Path (Network Share/Directory)	test V
	Converting Converting Converting Converting Converting Converting	Monday 💌 01 💌 Day
	Perform incremental replication Delete extra files on remote destination	Ok Cancel

iii. Delete

- a. Select the job to be deleted.
- b. Click **Delete**.

Nev	w Delete	Edit
Job Name	Schedule	Status
🔽 test	10:25 - Replicate Now	Replicating

3.10 Statistics & Logs

You can view the event logs of all currently online users on Disk On-line Server for system monitoring.

	(7) (6) (8) (7) (9) (8) (9) (7)
Statistics & Logs	
Active Users Event Logs DHGP Logs	There is no user currently logged on to the system.
	Refrech

• Active Users

This page shows all users that are currently logged on to the system.

• Event Logs

The Disk On-line Server can store thousands of recent event logs, including warning, error and information messages. In the event of a system malfunction, the event logs can be retrieved to help diagnose the system problem.

DHCP Logs

If the DHCP server function is activated, you can use it to monitor all of the assigned dynamic addresses, client MAC addresses and other information.

Chapter 4 Accessing Disk On-line Server

4.1 Using Microsoft Windows

Follow the steps below to access Disk On-line Server in Microsoft Windows OS:

- 1. You can locate and connect to your Disk On-line Server in the following ways:
 - By Quick Install Wizard. For further information, please refer to Appendix A.
 - You may also look for the Disk On-line Server within the Network Neighborhood. Locate the workgroup and find the name of your Disk On-line Server. When the server is found, double-click the server name to connect.
 - You may also use the "Search for Computers" function to look for your Disk On-line Server in Windows. Under Windows ME or Windows 2000, please follow these steps:
 - i. Open "My Network Places".
 - ii. Under the tool bar, click **Search**.
 - iii. Enter the name of Disk On-line Server in Computer Name field.
 - iv. Click **Search**.

When the Disk On-line Server is found, double click the item to access the server.

2. Once the connection to the Disk On-line Server is successful, all listing on your available network share are displayed. Select an appropriate network share folder and select **Map Network Drive** by right clicking on the item. If you wish to make the share folder available for your next start-up, check the "Reconnect at logon" box on the popup window and click **OK** to make the network share as one disk drive in your system.



Once the network share is a part of your system disk drives, you can locate the network share in "My Computer" and access it as a regular hard disk drive.

4.2 Using Apple Mac OS

If you are an Apple Mac user, access Disk On-line Server by the following ways:

1. Using network browser

a. Choose "Network Browser" in the Apple menu.



b. In "Network Browser", choose AppleTalk. A list of computers on the AppleTalk network will appear. Choose Disk On-line Server.



 c. Once the Disk On-line Server is chosen, the system will ask you to input the login name and password. Click **Connect** or use **Guest** to enter.
 When the login name and password are confirmed, connection to the Disk On-line Server is made.

-			
Connect to t	he file serv	er "NAS00009D	" as:
🔾 Guest			
Registere	d User		
Name:			
Password:		🗌 Add to Key	/chain
Clear lext Pa	issword		
Change Passw	ord	Cancel	Convect

d. When the Disk On-line Server is connected, the network browser displays all the network shares. You can then access or drag & drop the share folders.



e. Choose either one of the network shares to start to link. The network share appears on the Mac OS desktop.

		🏨 NA\$00009E	
	5 items	₲, 0, 0, ♀♀	
	Name		÷.
public	룻 public		Π
	👮 public 1		
	👮 public2		
C. C. C.	👮 public3		
	👮 public4		
N 4 N 4 N 4			

2. Using Chooser

a. Select **Chooser** on Apple menu bar.



b. Click **AppleShare**. The name of the Disk On-line Server will appear on the right side of the window.





c. Use the mouse to highlight the Disk On-line Server and click **OK**.

d. Enter the correct login name and password or use "Guest" to login, and click **Connect**.

N	Connect to t	ha filo com	on (KIAC1224) -	
	connection	ne me serv	er "NAS1234" (15.
	🔾 Guest			
	Registere	ed User		
	Name:			
	Password:		🗌 Add to Key	ychain
	Clear Text P	assword		
	hange Passw	ord	Cancel	Connect 3.8.5

e. All available network shares will be listed. Select a network share and click **OK**.

1	NA500009E	
<u></u>	Select the items you wa	ant to use:
	public public1 public2 public3	
	Checked items will be a startup time	opened at system
		Cancel OK 3.8.5

f. You can then close the Chooser program. Double click the icon on the desktop to access your files.

	Chooser			
public:	Color SW 2500 Color SW 2500 Color SW 2500 Color SW 2500 Color SW Pro Color SW 2500 Color SW 2500 Color SW 2500 Color SW 2500 Color SW 2500 Color SW Pro Color SW 2500 Color SW 2500 Color SW Pro Color SW 2500 Color SW 2500 Color SW Pro Color SW 2500 Color S			
	AppleTalk Onactive 7.6.2			

4.3 Using Unix/ Linux OS

In addition to Microsoft and Mac OS, your Disk On-line Server supports Unix based systems such as IBM AIX, HP-UX, Sun Solaris, Linux, Free BSD, etc. through the NFS service:

Note: Configure NFS settings in User Management page for users who use this feature before proceeding to the steps below.

 On Unix, run the commands: mount -t nfs <Disk On-line Server IP address>:/<Network Share Name> <Directory to Mount>

For example, if your Disk On-line server's IP address is 192.168.0.1 and you want to link the network share folder "public" under the /mnt/pub directory, use the following command. mount -t nfs 192.168.0.1:/public /mnt/pub

Note: You must login as "root" user to initiate the above command.

2. Logged in as the user id that you defined, you can use the mounted directory to access your network share files.

4.4 Using File Transfer Protocol (FTP)

In addition to working with multiple operating systems, Disk On-line Server also supports FTP. You can use popular FTP software and enter the user name and password to connect to the Disk On-line Server. Or you may key in anonymous as the user name in order to access public network share folders that is open to guest users.

Chapter 5 Disk On-line Server — Maintenance

Disk On-line Server has been specially designed to run 24×7 and be ready at all times against system crash caused by power outage. This section provides a general overview on system maintenance.

5.1 Shut down/ Restart the Server

To restart or shut down Disk On-line Server,

- 1. Ask all active users of NAS to save their files and disconnect from the server.
- 2. Enter the administration page and select Shutdown/ Restart in System Tools.

5.2 Reset Administrator Password and Network Settings

To reset the administrator password and network settings of Disk On-line Server,

- 1. Press the reset button at the back of Disk On-line Server for a few seconds. A beep sound will be heard.
- Login Disk On-line Server with the following default password: Name: administrator Password: admin

You can then administer your server again.

Note: If the configuration reset switch is disabled in the System Tools- Hardware Settings page, you are no longer able to use this function.

5.3 Disk Failure or Malfunction

In case of disk malfunction or failure, please do the following:

- 1. Record the malfunction status or error message.
- 2. Stop using the failed Disk On-line Server and turn off the server.
- 3. Contact customer service officer for technical maintenance.

Note: Your Disk On-line Server must be repaired by professional technicians, please do not try to repair the server yourself.

Please back up any important files or folders to avoid potential data loss due to disk crash.

5.4 Power Outage or Abnormal Shutdown

In case of power outage or improper shutdown of Disk On-line Server, the system will resume to the state before it is shut down. If your server is not functioning properly after restart, please follow the steps below:

- 1. If the system configuration is lost, please manually configure the system again.
- 2. In the event of abnormal operation of the server, please contact customer service officers for technical support.

To avoid the above situations, please back up your data periodically and make sure you have done the following:

- 2. Follow the instructions described to shut down or restart the server in Chapter 5.1.
- 3. In case of an anticipated power outage, back up all important data and turn off the server properly until the power supply is resumed.

Appendix A Quick Install Wizard

Introduction

Quick Install Wizard enables you to search for all available Disk On-line Servers within the local network, and view the server name, IP address, and workgroup etc. You can also configure the disk name, date and time, etc. via Quick Install Wizard.

Screenshot



Operation Help

1. Configure Disk On-line Server

Select a Disk On-line Server displayed on Quick Install Wizard and click **Configure**. Enter the administrator password.

🎒 Administrator Login	×
Administrator <u>N</u> ame	Administrator
Administrator <u>P</u> assword	
<u>0</u> K	<u>C</u> ancel

Upon successful login, the following screen will appear. Enter the configuration values and click **OK**.

🎒 Basic Configuration	×
System Name NAS333332 Date (mm/dd/yyyy) 07 / 19 2004	Set the name, date and time for Disk On-line Server. The length cannot exceed 14 characters.
Imme (hh:mm:ss) 14 16 51 TCP/IP	The system will obtain IP address automatically.
Obtain the IP address automatically (DHCP) Use Fixed IP Address IP Address IP Address Subnet Mask 255 . 255 . 255 . 0 Gateway 0 . 0 . 0 . 0	To use fixed IP address for connection, enter the IP address, subnet mask and gateway for the server.
0 <u>K</u> Cancel	

For further configuration of the system, please login the administration page of Disk On-line Server via web browser.

Note: You may have to restart Disk On-line Server after changing the network configuration.

2. View Disk On-line Server details

Select a Disk On-line Server available on Quick Install Wizard and click **Details**. The following screen will be shown:

Quick Install Wizard			_	
	sk On-	line erve	er 🗸	
Name	IP Address	Workgroup	Version	
NAS100E41	172.17.26.92	NAS	2.27	
NAS56F061	172.17.26.102	NAS	2.27	
NAS6B9B4E	172.17.26.52	NAS	2.27	
NAS6D1FA3	172.17.26.67	NAS	2.27	
NAS100847	172.17.27.92	NAS	3.03	
NAS1F9ACC	172.17.26.93	NAS	3.10	
QA4120	172.17.27.81	NAS	3.10	
MediaPlayer	172.17.26.250	NAS	3.10	
DVRTest	172.17.26.59	NAS	3.10	
NAS0E004A	172.17.26.55	NAS	3.10	
NAS-3000	172.17.26.50	NAS	3.10	-
<u>C</u> onfigure <u>D</u> etails	Map Drive <u>F</u>	<u>R</u> efresh	<u>H</u> elp E <u>x</u> it	

Detail Information		×		
Status	Value			
Server Name	NAS-110-test			
Workgroup Name	NAS			
Version	1.00			
MAC Address	00-40-01-01-01-11			
DHCP	Enabled			
IP Address	172.17.26.27			
Subnet Mask	255.255.254.0			
Gateway	172.17.26.1			
•				
<u></u>				
	Close			

3. Map drive

a. Select a Disk On-line Server and click **Map Drive**.

Quick Install Wizard			_	
	sk On-	line erv	er 🗲	
Name	IP Address	Workgroup	Version	
NAS100E41	172.17.26.92	NAS	2.27	
NAS56F061	172.17.26.102	NAS	2.27	
NAS6B9B4E	172.17.26.52	NAS	2.27	
NAS6D1FA3	172.17.26.67	NAS	2.27	
NAS100847	172.17.27.92	NAS	3.03	
NAS1F9ACC	172.17.26.93	NAS	3.10	
QA4120	172.17.27.81	NAS	3.10	
MediaPlayer	172.17.26.250	NAS	3.10	
DVRTest	172.17.26.59	NAS	3.10	
NAS0E004A	172.17.26.55	NAS	3.10	
NAS-3000	172.17.26.50	NAS	3.10	
<u>C</u> onfigure <u>D</u> etails	<u>M</u> ap Drive	<u>R</u> efresh	<u>H</u> elp E <u>x</u> it	

b. Select the correct network share and click **Map Network Drive**. Then select the drive letter for the connection.



Map Network Drive		×
	Windows and assi access t	s can help you connect to a shared network folder gn a drive letter to the connection so that you can he folder using My Computer.
	Specify t that you	the drive letter for the connection and the folder I want to connect to:
	<u>D</u> rive:	F:
	F <u>o</u> lder:	\\172.17.26.27\test Browse
		Example: \\server\share
		Reconnect at logon
		Connect using a <u>different user name</u> .
		Create a shortcut to a <u>Web folder or FTP site</u> .
		< Back Finish Cancel

c. Enter the password for the network drive.

Enter Network Password	<u>? ×</u>
Incorrect password or unknown username for: \\172.17.26.27\test Connect As:	OK Cancel
≕ F:\	
Eile Edit View Favorites Tools Help	<u>.</u>
📙 🖛 Back. 👻 🤿 👻 🔂 🖓 Search 🛛 🖓 Folders	ම් <u>අ</u> ඇ x ත *
Address 🖵 F:\	▼ ∂⊙
Name	Size Type 🛆
Name	Size Type ▲

4. Search for all available Disk On-line Server again

To refresh the search results, click **Refresh** to display all available servers within the network.

Quick Install Wizard			
	sk On-	line erve	r 📿
Name	IP Address	Workgroup	Version 🔺
NAS100E41	172.17.26.92	NAS	2.27
NAS56F061	172.17.26.102	NAS	2.27
NAS6B9B4E	172.17.26.52	NAS	2.27
NAS6D1FA3	172.17.26.67	NAS	2.27
NAS100847	172.17.27.92	NAS	3.03
NAS1F9ACC	172.17.26.93	NAS	3.10
QA4120	172.17.27.81	NAS	3.10
MediaPlayer	172.17.26.250	NAS	3.10 💻
DVRTest	172.17.26.59	NAS	3.10
NASOE004A	172.17.26.55	NAS	3.10
NAS-3000	172.17.26.50	NAS	3.10 💌
<u>C</u> onfigure <u>D</u> etails	<u>M</u> ap Drive <u>B</u>	efresh <u>H</u> e	lp E <u>x</u> it

5. Help

Click $\ensuremath{\textbf{Help}}$ to view the instructions of Quick Install Wizard.

Quick Install Wizard			
	sk On-	line erve	r 📿
Name	IP Address	Workgroup	Version 🔺
NAS100E41	172.17.26.92	NAS	2.27
NAS56F061	172.17.26.102	NAS	2.27
NAS6B9B4E	172.17.26.52	NAS	2.27
NAS6D1FA3	172.17.26.67	NAS	2.27
NAS100847	172.17.27.92	NAS	3.03
NAS1F9ACC	172.17.26.93	NAS	3.10
QA4120	172.17.27.81	NAS	3.10
MediaPlayer	172.17.26.250	NAS	3.10 —
DVRTest	172.17.26.59	NAS	3.10
NAS0E004A	172.17.26.55	NAS	3.10
NAS-3000	172.17.26.50	NAS	3.10 💌
<u>C</u> onfigure <u>D</u> etails	<u>M</u> ap Drive <u>F</u>	<u>}</u> efresh <u>H</u>	elp E <u>x</u> it

6. Enter the home page of Disk On-line Server

Double click Disk On-line Server to enter the administration page.

On	1:		~
S	erv erv	er 🕻	
IP Address	Workgroup	Version	
72.17.26.51	NAS	1.00	
2.17.26.109	NAS	1.00	
72.17.26.88	NAS	2.27	
72.17.26.83	NAS	2.27	
72.17.26.20	NAS	2.27	
72.17.26.31	EDEEX	2.27	
72.17.26.27	NAS	2.27	
72.17.26.93	NAS	2.27	
72.17.27.89	NAS	2.27	
72.17.26.89	NAS	2.27	
72.17.26.84	NAS	2.27	-
	IP Address 72.17.26.109 72.17.26.109 72.17.26.88 72.17.26.83 72.17.26.20 72.17.26.31 72.17.26.31 72.17.26.93 72.17.26.93 72.17.26.89 72.17.26.89 72.17.26.84	IP Address Workgroup 72.17.26.51 NAS 72.17.26.109 NAS 72.17.26.88 NAS 72.17.26.83 NAS 72.17.26.31 EDEEX 72.17.26.31 EDEEX 72.17.26.93 NAS 72.17.26.93 NAS 72.17.26.89 NAS 72.17.26.89 NAS 72.17.26.89 NAS	IP Address Workgroup Version 72.17.26.51 NAS 1.00 2.17.26.109 NAS 1.00 2.17.26.88 NAS 2.27 72.17.26.83 NAS 2.27 72.17.26.31 EDEEX 2.27 72.17.26.31 EDEEX 2.27 72.17.26.31 EDEEX 2.27 72.17.26.33 NAS 2.27 72.17.26.34 EDEEX 2.27 72.17.26.93 NAS 2.27 72.17.26.93 NAS 2.27 72.17.26.93 NAS 2.27 72.17.26.93 NAS 2.27 72.17.26.84 NAS 2.27



Appendix B NetBak Replicator

NetBak Replicator is a program installed in user's system (Windows only) for data backup. You can upload any files or folders to server and back up the data.

Main Functions

Backup

✓ File Filter

You can select particular file types to be excluded from backup. The system will filter all files belonging to these file types when backing up the data.

✓ Schedule

You can specify a schedule for backing up data with this option, e.g. 12:00 every day or 05:00 every Saturday.

✓ Monitor

When this option is enabled, the system will upload all files or folders to the server instantly for backup when the files or folders are modified.

• Restore

Select this option to restore backed up data to the original location of the file or to a new directory.

• Log

Enable this option to record events of NetBak Replicator, e.g. the time when NetBak Replicator starts and terminates, Restore and Monitor, backup time and original location of all files, etc.

Installing Netbak Replicator

1. Run Install NetBak Replicator in the companion CD.



2. Follow the steps to install NetBak Replicator. Then click Finish.



3. Upon successful installation, a shortcut icon will be shown on the Desktop.

Using NetBak Replicator

1. Create a share folder for backup in NAS.

Network Share Management		
Network Share Management Create	1. Network Shares	2. Settings
Property Access Control		- Create
• Delete		Create a network share
		Change the harne, path and comment of a network share
		Remove a network share

2. Run Netbak Replicator. Click *Level*. All NAS and their share folders within the network will be displayed.

NetBak Replicator	ator	
NAS Server Backup Restore Log Log Image: Comparison of the second	Share Folder	
C:X C:X C:X C:X C:X C:X C:X C:X	File Name Documents and Setti Intel_CD_6.2 Ipi2300 Lotus MegaFax My Documents Perl Program Files RECYCLER System Volume Infor toto miao	Size A
<u>Start</u> File <u>Filter</u> Sc <u>r</u>	edule <u>M</u> onitor	E <u>x</u> it

3. Select the NAS and share folder, or enter the IP address of NAS for data backup. Then click **OK**.

Browse NAS	×
 NAS Server 172.17.26.125 172.17.26.130 172.17.26.250 172.17.26.28 172.17.26.37 172.17.26.37 172.17.26.50 172.17.26.52 172.17.26.55 172.17.26.59 NAS IP 	Share Folder
	OK Cancel

Note: Only authorized users can access the share folders. Double click the folder. The system will prompt for user name and password to authenticate the access privilege of the users.

4. You can start the backup procedure upon successful connection to the NAS.

• Backup

Select files and folders for backup.

NetBak Replicator
NAS Server 172.17.26.27 Share Folder test
Backup Restore Log
C:\My Documents File Name Size Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program Files Image: Program
<u>Start</u> File Eilter Schedule Monitor

✓ File Filter

Click **File Filter** to select file format to be skipped from backup. Then click **OK**.

File Filter			×
Select file type	to be filtered		
Add	Delete	Default	
#*.* *.!B₩!			
.~~ *.NU* ~* *			
ОК		Cancel	
OK		Cancel	

✓ Schedule

Click **Schedule** on NetBak Replicator main page. Then check the box "Enable Backup Schedule" and select the frequency and time for backup. Click **OK** to confirm.

Bac	kup Schedule		×
9	Select the freque	ncy and time for backup up Schedule Execute Time Sunday Monday Tuesday Vednesday Friday Saturday	
		OK Cancel	

✓ Monitor

Select the files and folders for monitoring. Then click **Monitor**.

🍰 NetBak Replicator	_ _ X
NetBak Replicator	For client
NAS Server 172.17.26.27 Share Folder test	•
Backup Restore Log	
C:\My Documents □	Size
Start File <u>Filter</u> Schedule <u>Monitor</u>	
	E <u>x</u> it

Restore

- a. Restore to original position: Select the location that the data will be restored to.
- b. Select new restore position: Click **M** to select the directory to restore

data to or select a previously chosen location from the drop-down menu.c. Start: Select the folder(s) and sub-folder(s) for restoring data.

NetBak Replicator		
NetBak Repl	icator For cli	eı
NAS Server 172.17.26.27	Share Folder test	0
Backup Restore Log		
Restore to original position Select new restore position C:	:\Documents and Setting 💌 🏘	
	File Name Size	-
<u>Start</u>		
	Ezi	t
		100

d. Option: Select recovery option and error option.

Restore Option X
Recovery Option
If the restoring file has already existed on the target Recover all files Pop up a request dialog
Skip this file
Error Option
If an error happens in the process of file restoring
C Stop the restoring process
 Pop up a request dialog Skip restoring this file
OK Cancel

• Log

- a. Clear All: Click this button to clear all logs.
- b. Option: Select the type of logs to be recorded— "Record all logs" or "Record error logs only".

etBak Replicator	Repli	cator
NAS Server 172.	17.26.27	Share Folder test
Backup Restore	Log	
Time	Log	
2004/03/11 11:25:0	4 Start NetBak F	Replicator
2004/03/11 11:46:4	7 Exit NetBak R	eplicator
2004/03/11 14:07:1	3 Start NetBak F	Benlicator
2004/03/11 14:52:3	2 Exit NetBak Lo	og Option 🔀
2004/03/11 19:25:0	7 Start NetBa	
2004/03/11 19:41:1	4 Exit NetBak	
2004/03/11 22:51:3	/ Start NetBa	Becord all logs
2004/03/11 23:03:0	D Exit NetBak	
2004/03/12 03:26:4	Start NetBa	C Record event loss or la
2004/03/12 05:43:4	5 Start NotRa	 Necora error logs only
2004/03/12 11:10.4	1 Evit NetBal	
2004/03/12 11:10:0	3 Start NetBa	
2004/03/12 15:34:0	1 Exit NetBak	OK Cancel
2004/03/12 15:40:3	3 Start NetBa	
2004/03/12 15:45:4	5 Start NetBa	
2004/03/12 15:46:0	6 Exit NetBak R	eplicator 🗾 💌
•		E E E E E E E E E E E E E E E E E E E
<u>C</u> lear All	<u>Option</u>	
		Exit