

## 4-Bay Tower SATA NAS w/ 2-Port Gigabit Ethernet

**User Manual** 

#### Ver1.00-0603

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Back up your system periodically to avoid any potential data loss. LevelOne disclaims any responsibility of all sorts of data loss or recovery.
 Should you return any components of FNS-7000B Turbo 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.

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#### **1.1 Introduction**

Thank you for choosing FNS-7000B Turbo Server. This product has the following key features:

Simple installation, 5-min configuration and user-friendly management interface for SMB users.

High speed SATA HDD, supports hotswap, maximum capacity up to 1.6TB.

Dual Gigabit ports for load balance, fail over and standalone settings.

Double USB 2.0 ports for network printer sharing & UPS.

LCD panel for instant display of IP address and important system info; IP settings can be configured directly without access to PC.

Supports hot redundant power supply to increase system reliability (optional).

Provides various practical backup mechanisms. Professional remote replication to remote NAS USB 2.0 interface for CD/DVD data burning Provides backup software for Windows users, instant/scheduled backup

can be performed without IT professional

#### **1.2 Package Contents**

Your FNS-7000B package contains: <sup>1</sup>@FNS-7000B Turbo Server <sup>1</sup>@Power cord <sup>1</sup>@CD-ROM (user manual, Quick Install Wizard and software inclusive) <sup>1</sup>@Quick Installation Guide <sup>1</sup>@Ethernet cable x 2 <sup>1</sup>@Flat head screws x 16

## 

**Important Notice:** Please back up your disk data periodically to avoid data loss due to improper operation or disk failure of FNS-7000B. LevelOne is not responsible for any data loss or recovery.

### 1.3 System Overview Front View



**Rear View** 



## **Chapter 2 Installation**

2.1 Install Hard Disk Components:



FNS-7000B



- Unfasten the round head screws and take out the disk trays from FNS-7000B. Place a hard disk in a hard disk tray. 1 2



Tray front



It is highly recommended that you install disks of the same brand and same size on FNS-7000B. The server may function improperly if disks of different brands and size are installed. Please refer to Chapter 2.2 for hard disk recommendation list. 1 Turn around the disk tray. Make sure the hard disk screw holes match the holes

of the disk tray. Fasten the flat head screws to lock the disk as indicated below. 2 When finished, open the tray cover of FNS-7000B and insert the disk to the server. Push the disk towards the end until it is locked. Note that all disks should be inserted in order from top to bottom (HDD1~HDD4).





5. Fasten the tray with round head screws.



**Note:** You can install 1~4 hard disks depending on the type Note: You can install 1~4 hard disks depending on the type of disk configuration you select for FNS-7000B. If less than 4 disks are installed and the server is turned on, the system will beep continuously. In such case, please go to Hardware Settings in System Tools (refer to Chapter 6.9.4) and disable the buzzer. You can then continue to use FNS-7000B.

#### 2.2 Hard Disk Recommendation List

The following HDD models are verified by LevelOne that are compatible with FNS7000B. It is recommended to use the same brand and same size listed here for FNS-7000B if more than one hard disk is installed. Other HDD brands that are not tested by LevelOne may or may not work properly with FNS-7000B. For more updated compatible hard disk information, please visit LevelOne website at

http://www.level1.com

LevelOne disclaims any responsibility for product damage/ malfunction or data loss/ recovery due to misuse or improper installation of hard disks in any occasions for any reasons.

Brand	Model Name	Interface	Capacity (GB)	Rotational Speed (RPM)	Buffer Size (MB)
	Barracuda 7200.8 SATA NCQ	SATA 1.5Gb/s	400	7200	8

	Barracuda 7200.8 SATA NCQ	SATA 1.5Gb/s	300	7200	8
Seagate	Barracuda 7200.8 SATA NCQ	SATA 1.5Gb/s	250	7200	8
	Barracuda 7200.7 SATA NCQ	SATA 1.5Gb/s	160	7200	8
	Barracuda 7200.7 SATA NCQ	SATA 1.5Gb/s	120	7200	8
	DiamondMax 10	SATAII 150Mb/s	300	7200	16
Maxtan	MaXLine Plus II	SATA 150Mb/s	250	7200	8
waxtor	DiamondMax 10	SATAII 150Mb/s	200	7200	8
	DiamondMax 10	SATA 150Mb/s	120	7200	8
Hitachi	Deskstar 7K250	SATA 1.5Gb/s	250	7200	8
Western Digital	WD Caviar® SE Serial ATA	SATA 1.5Gb/s	160	7200	8

## 2.3 Connect FNS-7000B to Office Network

When connecting FNS-7000B to office network, it is recommended to install FNS7000B in LAN with DHCP server. You can use any PC in the same subnet to connect the server by IE browser. FNS-7000B supports printer sharing which allows users in the local network to use printing service. You may also connect FNS-7000B to a CD/DVD burner for data backup and restore.



To install FNS-7000B in office network, please follow the steps below.

**a.** Connect Gigabit port LAN 1 or LAN 2<sup><sup>e</sup></sup> to a switch/ hub/ router by a network cable.

**b.** Connect USB printer or USB CD/ DVD burner to FNS-7000B for network printer service or CD/DVD backup/ restore service\*.



- d. Turn on the server.
- **C.** Connect the power cord to power supply.

<sup>#</sup> To use fail over or load balance function, please connect both LAN 1 and LAN 2 to switch/ hub/ router. For further details, please refer to Chapter 6.5.1.

<sup>\*</sup> Network printer service is supported in Windows OS only.

\* Optional step. You can skip this step if you are not using printer and CD/DVD backup/restore service.

**Note:** To connect FNS-7000B to a PC, please use a network cable to connect the PC to LAN 1 or LAN 2 of FNS-7000B. Connect the power supply and turn on the server. For further details about accessing FNS 7000B, please refer to Chapter 6.

## **Chapter 3 LCD Panel Control**

When FNS-7000B is turned on, the server name, IP address, date, and time will be shown.



#### **Check System Information**

Press Down button to view disk information, i.e. number of disks and disk size.
 Note that the disk size displayed is the total size of all installed disks but may not be the actual disk size you can use. If you configure the disks as RAID 1 disk volume, your actual disk size you can use is smaller than the displayed disk size on the panel.
 Press Down button again to view system temperature and system fan speed.

Press Down button again to view system temperature and system fan speed.
Press Down button again to view CPU temperature and CPU fan speed.

● ① ● ! ● ! ● ISK NUMBER: 4 SIZE: 233632.50 MB ↓ ●





4. Press Down button again to view model number and version information.



#### System Setting Function

1 Press Enter button for two seconds to enter configuration page.

2 Press Down button to select an item: NETWORK SETTINGS, POWER DOWN, REBOOT SYSTEM, and EXIT.





**Network Settings** 

Enter NETWORK SETTINGS configuration page and press Down button to select one of

the following options. The one marked with \* means it is being used for connection. DHCP DHCP will obtain IP address automatically.

STATIC IPPress Enter button to select STATIC IP. Then configure the IP address. SET STATIC IP Press Down button to enter 0~255 and press Enter button to set the next number for the IP address.

- ii. SET NETMASKFollow the above procedure to set the netmask address.
- iii. SET GATEWAY Follow the above procedure to set the gateway address.
- iv. SELECT STATIC IP Press Down button to select YES or NO. When YES is selected, you will be asked to restart the system.

• EXITTo return to the previous menu.

POWER DOWN

Press Down button to select POWER DOWN and press Enter button to confirm shutting down FNS-7000B.



#### **REBOOT SYSTEM**

Press Down button to select REBOOT SYSTEM and press Enter button to confirm restarting the system.



Exit Configuration Page (EXIT)

Press Enter button and select EXIT, then press the button again to confirm exiting the configuration page.



**Chapter 4 Quick Install Wizard** 

Quick Install Wizard enables you to search for all available FNS-7000B 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.

To use Quick Install Wizard, run FNS-7000B CD-ROM in your PC and install the program.

Run Quick Install shortcut on the desktop, the following screen will be shown.

🔹 Quick Install Wizar	d			
Name of server IP	address of server	Windows wo	orkgroup erver	
Name	IP Address	Workgroup	Version	System version
INASE IP	192,168,50,2	DUCASIA	2.21	
Configure Detail:	s Map Drive F	lefresh Help	Exit	
Configure the server name, details of selected network server	Map Map of network drive for the server	Refresh the search results within the network	Help	Exit the program
Settings				

1. Configure FNS-7000B Select a FNS-7000B displayed on Quick Install Wizard and click **Configure**. Enter the administrator password.

me	IP Address	Workgroup	Version
9F1F	192.168.50.2	DULASIA	2.27
nfigure Details	Map Drive F	Refresh	Help Ex

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

<u>N</u> ame Date (mm/dd/yyyy)	NAS1E0041	Set the name, date and time for FNS-7000B. The length cannot exceed 14 characters.
Iime (hh:mm:ss)	11 : 21 : 37	The system will obtain IP address automatically.
Obtain the IP åddre     Use <u>Fixed IP Addre</u> IP Address	ss automatically (DHCP) ss	To use fixed IP address for connection, enter the IP
Subnet Mask		address, subnet mask and gateway for the server.

For further configuration of the system, please login the administration page of FNS-7000B via web browser.

Note: You may have to restart FNS-7000B after changing the network configuration.
 View FNS-7000B details Select a FNS-7000B available on Quick Install Wizard and click Details. The following screen will be shown:

2 Map drive

P	IP Address 192.168.50.2	Workgroup DDCASIA	Versio 2.2
ure Details	Map Drive	Refresh Hel	p
ure Details	Map Drive	Refresh Hel	
ure Details	Map Drive	Refresh Hel	
ure Details Details Status Server Name	Map Drive	Refresh Hel	
ure Details Details Status Server Name Workgroup Name Version	Map Drive	Refresh Hel	
ure Details Details Details Status Server Name Workgroup Name Version MAC Address	Map Drive Value NASFTF DDCAS 2.27 00-08-91	Refresh Hel	
Ure Details Details Status Server Name Workgroup Name Version MAC Address DHCP	Map Drive Value NASFTF DDCAS 2.27 00-08-91 Disabled	Refresh Help	
Ure Details Details Status Server Name Workgroup Name Version MAC Address DHCP IP Address Scientification	Map Drive Value NASFTF DDCAS 2.27 00-08-91 Disabled 192-168	Refresh Hel	

a. Select a FNS-7000B and click Map Drive.b. Select the correct network share and click Map Network Drive. Then select the drive letter for the connection. c. Enter the user name and password for the network drive.

	N	etwork A	tiched	$\mathbf{S}_{\scriptscriptstyle{ ext{tot}}}$	
Name NASFTP		IP Address 192.168.50.2	Workgroup DDCASIA		Version 2.27

Select Network Share		×
Select network share to ma	p as network drive :	
public		
	ne l	
Map Network L	Jrive Lancel	



1 Search for all available FNS-7000B again. To refresh the search results, click **Refresh** to display all available servers within the network.

Help If you have any enquiries about Quick Install Wizard when using the program, you can click the Help button to view the help text.
Enter the homepage of FNS-7000BDouble click on FNS-7000B to enter the

administration page.

	N	etwork A	trached $S$	tor
Name		IP Address	Workgroup	Version
NASFTP		192.168.50.2	DDCASIA	2.27

Quick Install Wizard	ettork A	ttached	Stor:
Name NASFTP	IP Address 192.168.50.2	Workgroup DDCASIA	Version 2.27
Configure Details	Map Drive F	Refresh	Help Exit

level'	N			
Name		IP Address	Wolkgroup	Version
NASFTP		192.168.50.2	DDCASIA	2.27
1	-			

## Chapter 5 Use Services

FNS-7000B provides the following powerful services and applications

## 5.1 File Server

You can make use of the following means to access and share the folders of FNS7000B easily:

- By Quick Install Wizard: By the Map Drive function of Quick Install Wizard, you can configure the share folders on FNS-7000B as a drive of your PC quickly. For further information, please refer to Chapter 4.
- By samba: FNS-7000B supports Microsoft<sup>®</sup>, MAC and Linux(NFS) OS for data sharing to enable you to share data across different platforms, please refer
- to Chapter 7.1-7.3. c. By Web File Manager: FNS-7000B provides a simple-to-use web
- administration interface for you to access share folders, upload and download files from FNS-7000B, please refer to Chapter Appendix A.

#### 5.2 FTP Server

FNS-7000B supports FTP file transfer. You can use the following methods to access share files by FTP:

a. By IE browser or

b. By Web File Manager For further information, please refer to Chapter 7.5.

#### 5.3 Backup Server

FNS-7000B provides versatile backup mechanisms to help you back up or restore disk data completely to enhance more efficient and secure system management. The backup/ restore applications are listed below:

a. Remote Replication

Remote replication is a built-in backup feature of FNS-7000B. You can set up instant or scheduled backup to replicate the data of FNS-7000B to another NAS server. Please refer to Chapter 6.9.8.

b. Virus Scan

Virus scanning agent helps protect your system from being infected by viruses. You need to operate Windows NT or Windows 2000 server with virus-scanning software installed to perform real-time virus scanning. To enable virus scan support, specify the IP address of network share, the administrator ID and password.

c. USB CD/DVD Restore/ Backup

You can connect USB CD/DVD burner to the high speed USB 2.0 transfer interface of FNS-7000B and enjoy data backup and restore functions to and fro FNS-7000B and CD/DVD. Please refer to Chapter 6.9.11.

#### 5.4 Network Printer Service

FNS-7000B provides Windows<sup>®</sup> users with the exclusive network printer service. You can connect USB printer to FNS-7000B and enable network printer sharing function. Please refer to Chapter 5.4.

## **Chapter 6 Administer**

When you have installed FNS-7000B and connected it to the network or PC, you can manage the server via web browser. It is recommended to use Microsoft Internet Explorer 6.0 or above to access FNS-7000B.



#### FNS-7000B Network Configuration for the First Time of Use

By factory default, FNS-7000B will search the network via DHCP (Dynamic Host Configuration Protocol) to detect IP address settings automatically. If your network does not support DHCP protocol, FNS-7000B will use the default settings as below:

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

When FNS-7000B boots up, the LCD panel will display current IP address settings. If your network does not support DHCP protocol, you must configure your FNS7000B to proper LAN settings before using it for the first time. If you are not sure about the LAN settings, please contact your network administrator.

You can change the network settings of FNS-7000B by the following ways:

1 Use the LCD panel to change the network settings. For more information, please refer to Chapter 3. OR

2 Use Quick Install Wizard in the CD-ROM to change the network settings. For more information, please refer to Chapter 4.

#### 6.1 Access Administration Page

You can access FNS-7000B administration page by the following means:

1 Launch the web browser. Enter the IP address of FNS-7000B to access the administration page. You can check the IP address of FNS-7000B on the LCD panel (see Chapter 3). OR

2 Install and Quick Installation Wizard (see Chapter 4). Search for FNS-7000B in

the network and double click the server name on the list.

IASFTP 192.168.50.2 DDCASIA	VEISION
	2.27

5. When the administration page is shown, click **Administration**.

F	s NS-7	000	B Sa	ata N C Ø	AS
O English	Δ 💌	Change Password	\$	Administration	Web File Manager
Version 1.0.0 build 0216	reliable and high     Share your storag     Protect your data     Easy administration	capacity network attained over Microsoft, Linux and wa RAID technology and in through simple web interf	c <b>hed storage serv</b> Apple network. anagement. 'ace.	er	

6. Enter the user name and password to login.

Default user name:	administrator
Password: admin	

The first time you login FNS-7000B, Quick Configuration page will be shown. Please refer to 6.3 Quick Configuration for more details.

To connect FNS-7000B by MAC, open a web browser in MAC and enter the IP address of FNS-7000B. Login the server and continue the software configuration. Please use the built-in browser in MAC-Safari for browsing.

## 6.2 Server Administration

There are eight main sections in server administration:



Server Name Date & Time Language Setting View System Settings

TCP/IP Configuration Microsoft Networking Apple Networking Linux (NFS) Service Web Service FTP Service Printer Service View Network Settings

Create Disk Volume Delete Disk Volume Examine Disk Volume Format Disk Volume View Disk & Volume Status

Users User Groups Quota

Create Create Private Network Share Assign Users Delete

Create Property Access Control Delete

SNMP Settings Alert Notification Restart / Shutdown Hardware Settings UPS System Update Change Logo Remote Replication Anti-virus Configuration Backup/ Restore/ Reset Settings USB CD/ DVD Restore/ Backup

Active Users Event Logs DHCP Logs Create Create Multiple Users Change Password Create Private Network Share Assign User Groups Quota Settings Delete

## 6.3 Quick Configuration



Please follow the step-by-step guide in Quick Configuration to complete the settings of FNS-7000B. If you have any questions during web administration, please click the help button

in the top right hand corner of the page. Other buttons are described as below:

🕙 : Return to previous page : Return to home page : Logout system





Step 1. Enter the server name. Step 2. Change the administrator password or select to use the original password.

1. Enter the name for this s	erver.		
Server Name :	NASOE0054		
		+ Back	🔶 Next
2. Change the administrate	r password.		
Password :	****		
Verify Password :			
Use the original passw	ord		

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

ent date and time:     2004 / 9 / 9 AM 10 : 04 : 12       Change the server's time and date as below:	me Zone :	(GMT) Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London 💌	
Change the server's time and date as below:	urrent date and time: 2004 / 9 / 9 AM 10 : 04 : 12		
	Change the server's tin	ne and date as below:	
Date: January 🗾 🛛 , 🛛 (mm dd, yyyy)	Date: January	💌 📄 , 📄 (mm dd, yyyy)	
Time: ; ; AM 🗾 (hh:mm:ss)	Time: [ ;		

Step 4. Select the language the server uses to display files and directories. The default setting is **English**.

anguage:	English 🔽		
	Chinese-Simplified Chinese-Traditional Cyrillic Greek Icelandic Japanese Korean	🔶 Back	- Next
	Slavic/Latin 2		
	English		
	Western Europe/Latin 1		

Step 5. Enter the IP address, subnet mask and default gateway for the server. Select network interface configuration: fail over or load balance.

۲	Use the following settings		49	
	Subnet Mask:	255 . 255 . 25	······································	
	Default Gateway:	10.8.10	) . 1	
Con	figuration of Network Interfaces	• Fail Over	O Load Balance	

Step 6. Select the network file services to provide on the server. Step 7. Configure disk

#### volume on the server.



Step 8. Configure the method of user authentication. Please refer to Chapter 6.5.2 for further information.



Step 9. Manage users and user groups of this server. Step 10. Manage network shares on this server.

Andrew	User Name
Bella	Password
Cynthia	Remove Verify Password
Derek	Note: For increased security, password shoul
administrator	be at least 6 characters.

### - 9.1 Set user groups of this server.

To add a user group, enter the group name in the box below. Select the user(s) to add to the group from the list on the right, then click Add. To remove a user group, select the group name on the left list, and click Remove. You can remove multiple user groups at a time.

administrators everyone	Andrew Bella Cynthia Derek administrator
. Manage network shares on th	You can choose one or more users to add into the user group from the above field. Back Next server.
AGO a network share, enter the move an existing network share ASOE0036PR	select the network share on the left list, and click Remove.

Step 11. Finish. It may take several to tens of minutes to complete Quick Configuration, depending on your system settings.

more changes to the s	settings.
more changes to the s	settings.
Deale	
Deals	
Deele	
Back	- Einich
DOLK	FILISH

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

		4	2-0		<u>ର</u> ଟ		$\bowtie$	
System Settings								
Server Name	<ul> <li>Server Name</li> </ul>							
Date & Time	Server Name:	Į	ASOE0036					
Language Setting					_			
View System Settings						• 4	upply	

#### 6.4.1 Server Name

Enter the name of FNS-7000B. The server name can be 14 characters long at maximum, which can contain alphabets, numbers and hyphen (-). The server does not accept names with space, period (.), or names in pure numbers.

– Server Name		
Server Name:	NASOE0036	
		Apply

#### 6.4.2 Date & Time

Set the date, time, and time zone according to your location. If the settings are incorrect, the following problems may occur:

- 9 When using a web browser to access or save a file, the display time of the action will be incorrect.
- 9 The system event log time will be incorrect compared to the actual time when an action occurs.
|                                       | 2000 1 2 1 1 24 25 - 25 - 10 |
|---------------------------------------|------------------------------|
| Current date and time:                | 2006 / 3 / 1 PM 05 : 35 : 18 |
| Change date and time                  | manually                     |
| Date                                  | January 🕜 🔄 , (mm dd, yyyy)  |
| Time                                  | :                            |
| Configure NTP server                  | or client setting            |
| <ul> <li>Use the specified</li> </ul> | INTP server                  |
| IP Address of NTI                     | P Server Test (Status:)      |
| Time Interval                         | 1 minute(s)                  |
| Enable NTP served                     | er                           |
| NTP Server #1                         | Test (Status:)               |
| NTP Server #2                         | Test (Status:)               |
| NTP Server #3                         | Test (Status:)               |
|                                       |                              |

**WNTP Server** You can enable or use specified NTP (Network Time Protocol) server to update the date and time of the system automatically. To enable NTP server, please enable **Configure NTP server or client setting** and enter the IP address or domain name of the NTP server, e.g. time.nist.gov, time.windows.com in **Use the specified NTP server** field. Then enter the time interval for adjusting the time (minimum value is 1 minute and maximum value is 99 days).

Co Co	nfigure NTP server or client settin Use the specified NTP server IP Address of NTP Server	ng	Test (Status')
	Time Interval	1	minute(s)
			minute(s) hour(s) day(s)

To enable multiple NTP servers, you can select **Enable NTP server** and enter the IP address or domain name of the servers. You can enter 3 NTP servers at maximum. If the system fails to connect to the first NTP server, it will try to connect the second one automatically, so on so forth. You can click **Test** to try to connect to the NTP server. If there is no specified IP address for the NTP server, the system will refer to internal clock for date and time settings.

۲	Enable NTP server	
	NTP Server #1	Test (Etatus:)
	NTP Server #2	Test (Status:)
	NTP Gerver#0	Test (Etatus:)
		<ul> <li>Apply</li> </ul>

**Note:** The first time you enable NTP server, it may take several minutes for time synchronization before the time is correctly adjusted. **6.4.3 Language Setting** 

Select the language FNS-7000B uses to display files and directories.



**Note:** All files and directories on FNS-7000B will be created using Unicode encoding. If your FTP clients or PC does not support Unicode, e.g. Windows® 95, 98, ME OS is used, select the language your PC supports here in order to view the files and directories on the server properly.

– Language Setting		
Language:	English	
	Chinese-Simplified	
	Cyrillic	Apply
	English Greek	
	Icelandic	
	Japanese Korean	
	Slavic/Latin 2	

# 6.4.4 View System Settings

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

Server Name	
Server Name	NASB03698
Date & Time	
Date	March 1, 2006
Time	5:35:33 PM
Time Zone	(GMT) Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London
Language	
Code Page	English (437)
System Inform	ation
Version	1.0.0 Build 1003
	OK

# 6.5.1 TCP/ IP Configuration

-C>-

	47 I-10 🔫	
Network Settings  TCP/IP Configuration  Microsoft Networking	<ul> <li>TCP/IP Configuration</li> </ul>	
Apple Networking     NFS Service     NetWare Service	Configuration of Network Interfaces	<ul> <li>O Load Balance</li> <li>O Standalone</li> <li>at </li> </ul>
Web Service     FTP Service	Fail Over	
Network Printer Service     View Network Settings	Use static IP address settings addiminiation was provided by the static IP address settings addiminiation of the static IP Address settings addiminiation of the static setting additional setting addition	. 28 . 126 . 284 0 0
	Primary DNS Server 10 . 8 Secondary DNS Server 0 . 0	- [2] - [1] - [0] - [0]
	Enable DHCP Server Start IP Address 172 End IP Address 172 Lease Time 1 Primary DNS Server 0 Secondary DNS Server 0	. 17 . 10 . 100 . 17 . 10 . 200 Day(s) D Hour(s) . 0 . 0 . 0
		Apply

**Configuration of Network Interfaces** 

**℃●Fail Over (Default)** The system supports the configuration of multiple network interfaces, which enables you to perform Fail Over or Load Balance functions. Fail over ensures server availability to the network. If the primary port is disconnected due to a hardware or cable problem, the secondary port will replace its network identity. If the failed port resumes the network connection, it will also resume the role as the primary interface.

il Over	
<ul> <li>Optain IP address settings</li> </ul>	automatically via DHCP
O Use static IP address	
Fixed IP Address	172 . 17 . 28 . 126
Subnet Mask	255. 255 😪 . 254 😪 . 0 🐱
Default Gateway	
Primary DNS Server	10 . 8 . 2 . 11
Secondary DNS Server	
Enable DHCP Server	
Start IP Address	172 . 17 . 10 . 100
End IP Address	172 . 17 . 10 . 200
Lease Time	1 Day(s) D Hour(s)
Primary DINS Server	
Secondary DNS Serve	ar 0 . 0 . 0 . 0 . 0

**Load Balance** In load balance\* mode, the transmission load is distributed among aggregated network ports.

oad Ba	alance	
۲	Obtain IP address settings auto	omatically via DHCP
0	Use static IP address	
	Fixed IP Address	172 . 17 . 28 . 126
	Subnet Mask	255 . 255 😪 . 254 🐼 . 0 😺
	Default Gateway	
Prim	ary ENS Server	10 . 8 . 2 . 11
Seco	indary DNS Server	
	Enable DHCP Server	
	Start IP Address	172 . 17 . 10 . 100
	End IP Address	172 . 17 . 10 . 200
	Lease Time	1 Day(s) O Hour(s)
	Primary DNS Server	
	Secondary DNS Server	

\* An intelligent software adaptive agent will repeatedly analyze the traffic flow from the server and distribute the packets based on the destination address. Load balance can only occur on Layer 3 routing protocols (IP or NCP IPX). Multicast/Broadcast and non-routing protocols, such as NetBEUI and Microsoft IPX, are transmitted over the primary port.

**Standalone** Standalone settings enable each port to have a unique IP, which allows

users on different network areas to share one FNS-7000B and maintain their

independence from one another in the network. When using this mode, fail over cannot be used and only LAN 1 can be configured as DHCP server.

<ul> <li>LAN Configruration</li> </ul>	
Configuration of Network Interfaces	🔿 Fail Over 🔿 Load Balance 💿 Standalone
Network Speed	auto-negotiat 💙
LAN1 LAN2	
Obtain IP address settings a	utomatically via DHCP
O Use static IP address	
Fixed IP Address	192 . 168 . 0 . 1
Subnet Mask	255 . 255 💽 . 255 💌 . 0 💌
Default Gateway	
Primary DNS Server	0.0.0
Secondary DNS Server	
Start IP Address	192 . 168 . 0 . 100
End IP Address	
Lease Time	1 Day(s) 0 Hour(s)
Primary DNS Server	
Secondary DNS Server	
LAN1 LAN2	
Obtain IP address settings autor	matically via DHCP
O Use static IP address	
Fixed IP Address	192 . 168 . 0 . 1
Subnet Mask	255 , 255 💌 , 255 💌 , 0 💌
Default Gateway	0.0.0.0

## **Network Speed**

Network Speed

Network speed settings provide an advanced option for configuring network speed. You can select auto-negotiation (default), 10 Mbps, 100 Mbps, or 1000 Mbps. It is recommended to use the default setting that the server will determine network speed automatically.

auto-negotiation 🐱
auto-negotiation
10
100
1000

•Obtain IP address settings automatically via DHCP If your network supports DHCP, FNS-7000B will automatically use DHCP protocol to retrieve the IP address and related information.

### • Obtain IP address settings automatically via DHCP

•Use static IP address To use fixed IP address for network connection, enter fixed IP address, subnet mask and default gateway.

0	Use static IP address		
	Fixed IP Address	172 . 17 . 28 . 126	
	Subnet Mask	255 . 255 🕑 . 254 🗹 . 0	v
	Default Gateway	0.0.0	

**Primary DNS Server:** Enter the IP address of primary DNS server that provides DNS service for FNS-7000B in external network.**Secondary DNS Server:** Enter the IP address of secondary DNS server that provides DNS service for FNS-7000B in external network.

Primary DNS Server	10	•	8		2		11
Secondary DNS Server	0		0	.	0	].	0

You can also configure the following settings:

### 9 Enable DHCP server

If there is no DHCP server on your network, you can enable this option to provide IP address settings to the 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 to your computer, the secondary DNS server address is also specified to it.

Enable DHCP Server		
Start IP Address	172 . 17 . 10	. 100
End IP Address	172 . 17 . 10	. 200
Lease Time	1 Day(s) 0	Hour(s
Primary DNS Server	0.0.0	.0
Secondary DNS Server	0.0.0	.0
	6.5.2 Microsoft Ne	tworking

- Mic	roso	ft Networking	
<b>V</b>	Enak	ole file service for Microsoft networking	
	۲	Standalone Server	
	0	NT Domain Member	
	0	AD Domain Member	
		Server Description	NAS Server
		Workgroup	NAS
		AD Server Name	
		Domain Name	
			Domain Username
			Password
		Enable WINS server	
		Use the specified WINS server	
		WINS server IP address	
		Domain Master	
			Apply

**Enable file service for Microsoft networking:** If you are using Microsoft Windows, enable this service to access the files on network share folders. Assign a workgroup name.

#### 9 Standalone Server

Use local users for user authentication.

### 9 NT Domain Member

Use Microsoft NT domain for user authentication.

### 9 AD Domain Member

FNS-7000B supports Windows 2003 AD (Active Directory) to provide quick and direct import of user accounts to the existing AD server available in your network. This function helps you to save time and effort on creating user accounts and passwords and lowers IT maintenance cost by automatic configuration procedure. ③Server Description: Describe FNS-7000B for users to identify the server.

To use FNS-7000B on the Microsoft Windows OS, you must enable Microsoft Network Services.

- <sup>34</sup> Workgroup: Specify the workgroup FNS-7000B belongs to. The workgroup is a computer group unit in Microsoft Windows network for network sharing.
  - ②AD Server Name: Enter the name of the AD server when AD domain is selected for authentication. ②Domain Name:

Microsoft domain name. Enter the domain name when you select NT domain or AD domain.

- WINS server If the local network has a WINS server installed, specify the IP address. FNS7000B will automatically register its name and IP address with WINS service. 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.
  - Enable WINS server
     Use the specified WINS server
     WINS server IP address
     O

**Domain Master** There is a unique Domain Master Browser for collecting and recording resources and services available for each PC in the network or workgroup of Windows. When a domain master browser (Windows NT/ 200x/ XP PC) exists already in the network, there is no need to configure FNS-7000B as the domain master. When you find the waiting time for accessing Network Neighborhood too long, it may due to failure of an existing master browser, or there is no master browser available. If the reason is the latter one, you can check the box Domain Master in this section to configure FNS-7000B as the master browser to enhance the speed of accessing information on Network Neighborhood.

📃 Domain Master

### 6.5.3 Apple Network

To use FNS-7000B on Apple MAC operating system, enable AppleTalk network support.

If your AppleTalk network uses extended networks, and is assigned with multiple zones, assign a zone name to FNS-7000B. If you do not want to assign a network zone, enter an asterisk (\*) to use the default setting. **This setting is disabled by default**.

<ul> <li>Apple Networking</li> </ul>		
Enable AppleTalk file service for Ap	ple networking	
Zone	#>	
	<ul> <li>Apply</li> </ul>	

6.5.4 Linux (NFS) Service

To use FNS-7000B on Linux OS computer or server, enable Linux (NFS) service. FNS-7000B supports NFS version 2.0 and 3.0. **This setting is disabled by default.** 



### 6.5.5 Web Service

To access files on FNS-7000B via web browser, enable Web File Manager. If FNS7000B is connected to the Internet and uses a valid IP address, you can access files on the server by web browser from anywhere.



## 6.5.6 FTP Service

Select whether to enable/disable Unicode Support. The default setting is No. If your FTP client does not support Unicode, e.g. Windows® 95, 98, ME OS is used, select a supported language setting in "System Settings—Language Setting" page so that the folders and files on FTP can be properly shown (please refer to Chapter 6.4.3).

Note: The language of file names on share folder should match the language setting here for proper display.

₽	Enable FTP Service		
	Port Number	21	
	Maximum Connections	30	
	Unicode Support	C Yes 💿 No	

# 6.5.7 Network Printer Service

FNS-7000B provides network printer service. You can configure a USB printer as the network printer via FNS-7000B. **Make sure at least one hard disk of FNS-7000B is formatted before enabling this function.** The system will use HDD 1 for printer sharing service by default. If the HDD 1 fails, HDD 2 will be in use, so on so forth. To use this function, connect the server to a USB printer, and then click "Enable network printer service". Enter the printer name and description (optional) and click **Apply**.

– Net	work Printer Service Enable network printer service Network Printer Name	NAS1ED041PR	
	Comment	Printer port on NAS	
			<ul> <li>Apply</li> </ul>
Printer	Note: Network printer ser	vice is supported in Windows	s OS only.

1 Connect a USB printer to FNS-7000B.

After correctly enabling a USB printer on FNS-7000B, a printer icon should be shown in the share folder of the server. Right click the printer icon and click **Open** or **Connect**.

💈 NAS Server (172.17	.26.32)		
File Edit View Favorit	es Tools Help		<b>A</b>
🕝 Back - 🕥 - 🗗	🔊 🔎 Search 👔	Folders T	
Address 😼 \\172.17.26.32			💌 🄁 Go
Network Tasks			
Other Places	(*)	Open Connect	
Details	*	Create Shortcut	
		Properties	

3. Install the printer driver.

Add Printer Wizard	J		?
			If your printer came with is not listed, consult your
Manufacturer	~	Printers	<u>^</u>
Agfa Alps Apollo Apple APS-PS AST		AGFA-AccuSet v52.3 AGFA-AccuSetSF v52 AGFA-AccuSet 800 AGFA-AccuSet 800SF AGFA-AccuSet 800SF	.3 v52.3 v2013.108
This driver is digita	Illy signed signing i	d. is important	Have Disk
			OK Cancel

4. When finished, you can start to use network printer service.  $\bf 6.5.8~View~Network~Settings$ 

You can view current network settings and status in this section.

Network	Network File Services	Miscellaneous	
Connection	Туре		
Connection T	уре	DHCP	
IP Address		10.8.10.126	
Subnet Mask		255.255.255.0	
Default Gatev	way	10.8.10.1	
MAC Address		00:30:02:0E:00:30	
Connection S	itatus	Ready	
Configuration	of Network Interfaces	Fail Over	
DHCP Servic	:e		
Enabled		No	
Address Rang	je	172,17,10,100 - 172,17,10,200	
Lease Time		1 Day(s) 0 Hour(s)	
			- Close

Network	Network File Services	Miscellaneous	
Microsoft Ne	tworking		
Fnabled		Yes	
Server Type		Standalone Berver	
Workgroup		NAS	
WINS server E	nabled	No	
Domain Maste	r Enabled	No	
Apple Netwo	rking		
Enabled		No	
Apple Zone Na	ime	*	
Linuk (NFS) 9	ervice		
Enabled		No	
Web File Man	ager		
Enabled		Yes	
FTP Service			
Enabled		Yes	
Port Number		21	
Max Connectio	ins	30	
Unicode Oupp	ort	Yes	
			- Close
view Network	Settings		

Network	Network Fie Services	Miscellaneous	
Printer Servi	ice		
Enabled		Yes	
Printer Name		NASOE0036PR	
Printer Comm	nent	USB port on NAS	
Printer Comm	ient	USB port on NAS	
			- Close

# 6.6 Disk Configuration



In the section, you can create, delete, examine and format disk volume, as well as view disk and volume status of FNS-7000B.



### 6.6.1 Create Disk Volume

FNS-7000B can accommodate four disks at maximum. You can set the disk volume to the following configurations by clicking on the icons on Create Disk Volume page:

a. Single Disk Volume You can create an individual disk volume. In case of disk crash, all data will be lost.

b. RAID 5 Disk Volume Three or more hard disks can be integrated to form RAID 5 disk volume. Data will be distributed and stored among the disks. If a disk fails, you can replace a new disk with the damaged one, and the system will restore the data to the new disk. You can also use three disks for RAID 5 and a fourth disk as a backup disk. If a disk of RAID 5 volume is damaged, the spare disk can replace that damaged disk, which enhances server stability and efficiency.



**Note:** When configuring RAID 5 disk volume. at least 3 disks are **Note:** When configuring RAID 5 disk volume, at least 3 disks are required.

c. RAID 1 Mirroring Disk Volume Mirroring Disk protects your data by automatically backing up the contents of one disk onto the second disk of a mirrored pair. This protects your data if one of the disks fails. However, the storing capacity is equal to a single disk, as the second disk is used to automatically back up the first one.

d. RAID 0 Striping Disk Volume Striping disk combines two or more disks into one larger disk. It offers the fastest disk access but does not have any protection of your data if the striped array fails. The disk capacity equals the number of disks in the array times the size of the smallest disk.

e. Linear Disk Volume You can combine two or more disks into one larger disk. Files will be saved on physical disks sequentially but does not have a disk failure

# file protection function. The overall capacity of linear disk is the sum of all disks.



### 6.6.2 Delete Disk Volume

To delete a disk volume, select the disk volume to remove and click OK.

/olur	ime	Total Size	Free Size	Ready
œ	RAID 5 Disk Volume: Drive 1 2 3 4	233632,50 MB	224784.51 MB	

### 6.6.3 Examine Disk Volume

To examine a disk volume, select the disk volume to examine and click OK. You can check the **Fix errors** box and the server will fix errors automatically during disk checking.



9 Disk Volume Operation Report After click OK on Examine Disk Volume page, a page like below will display to show the current status and information of disk volume operation.

Operation Type	Format Disk Volume	
Source Disk Volume	Mirroring Disk Volume: Drive 1 2	
Target Disk Volume		
Snapshot Settings	Disabled	
Status	Formatting	
Result		
Comment	This operation may take several minutes to hours, depending on the disk capacity.	
Note: This page will autor the operation result later (	natically refresh every 5 seconds. Click Close to exit this page. You can choose to view on the View Disk & Volume Status page.	

### 6.6.4 Format Disk Volume

To format disk volume, select the disk volume to format and click OK.

/olu	ime	Total Size	Free Size	Status
¢	RAID 5 Disk Volume: Drive 1 2 3 4	233632.50 MB	224784 51 MB	Ready

### 6.6.5 View Disk & Volume Status

You can view details of physical disks and logical volumes in the section.

Disk	Model		Capacity	Status	
Drive 1	Maxtor 6Y120L0		117246.94MB	Ready	
Drive 2	Maxtor 6Y120L0		117246.94MB	Ready	
Drive 3	Maxtor 6Y120L0		117246.94MB	Ready	
Drive 4	Maxtor 6Y120L0		117246.94MB	Ready	
Volume		Total Size	Free Size	Status	
Volume		Total Size	Free Size	Status	
Striping Dis	k Volume: Drive 1234	467878.12 MB	460403.27 MB	Ready	
		_	n ford		

**Note:** When configuring disk volume. make sure there are no active users **Note:** When configuring disk volume, make sure there are no active users connecting to FNS-7000B to avoid any potential damage to the disks. You can check all currently active users in Statistics & Logs—Active Users (refer to Chapter 6.10.1) and inform those users to logout before configuring disk volume.

# 6.7 User Management



The files on FNS-7000B can be shared among 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	1. Select a user	2. Settings
<ul> <li>Create</li> <li>Create Multiple Users</li> <li>Change Password</li> <li>Create Private Network Share</li> <li>Assign User Groups</li> <li>Quota Settings</li> <li>Delete</li> <li>User Groups</li> <li>Quota</li> </ul>	== NAS Local Users== Andrew Bella Cynthia Derek administrator	Create     Add a user     Create Multiple Users     Add two or more users     Create Multiple Users     Add two or more users     Create Autory     Create Spasword     Create Private Network Share     Create a user's private network share     Create a user's private network share     Spacify the user groups users belong to     Quota Settings     Set user's quota limitation     Delete     Remove one or more uses

## 6.7.1 Users

The system has created the following users by default:

#### n Administrator

By default, administrator has access to system administration and cannot be deleted.

### o Guest

This is a built-in user and will not be displayed on User Management page. When you use a non-registered user name to login, the server will recognize the user as a guest and will allow limited access. A guest does not belong to any user group.

**D**Anonymous This is a built-in user and will not be displayed on User Management page. When you connect to the server by FTP service, you can use this name to login as a guest.

512 users can be created at maximum (including system default users). You can create a new user according to your needs. The following information is required to create a new user:

#### 9 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: ...

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

### 9 Password

The password is case-sensitive and can be 16 characters long at maximum. It is recommended to use a password of at least 6 characters.

You can perform the following settings for users:



### 6.7.2 User Groups

User group is a collection of users with the same access right to files or folders.

FNS-7000B has created the following user groups by default:

### Administrators

All members in this group have administration right. You cannot delete this group.

# Everyone

All registered users belong to everyone group. You cannot delete this group.

Users	1. Select a user group	2. Settings
Vser Groups     Greate     Greate Physics Network Share     Assign Users     Delate     Oupta	== NAS Domain Groups == == NAS Local Groups == administrator administrators everyone group 2 group 4 group 4 group 6	Create     Create     Create Private Network Share     Create a user group's private network share     Specify users for a user group     Delete     Remove one or more user groups

You can manage user groups with the following options:



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 following ones:

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

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. Create Users and Assign Users to User Group

The following example demonstrates how to create new users and assign users to a user group.

ABC Co. has recently recruited two employees Mr. Jones Lee for Administration Department and Ms. Jane Wu for Sales Department. The IT Department therefore needs to create two user accounts for them to access company data on FNS-7000B. i. To create a user account, go to User Management-Users. Click Create.

	4	≁ 2= ↔ = <mark>88</mark> ⊡ ⊠ ⊂
User Management		
Users	1. Select a user	2. Settings
Create	== NAS Local Users==	Create
Create Multiple Users	Bela	Add a Use
Change Password	Cynthia Derek	Add two or more users
Create Private Network Share	administrator	Change Password Change a user's password
<ul> <li>Assign User Groups</li> </ul>		Create Private Network Share
<ul> <li>Quota Settings</li> </ul>		Create a user's private network share
Delete		Assign User Groups Specify the user groups users belong to
User Groups		Quota Settings
• Quota		Set user's quota imitation     Delete     Remove one or more users

ii. Enter the user name (Jones Lee/ Jane Wu) and password. Check the box"Continue to set the user groups to which this user belongs" and click OK.

– Add a user	
User Name	Jones Lee
Password	
Verify Password	
Note: For increased	security, password should be at least 6 characters.
Continue to set th	ne user around to which this user belance
Continue to set a	e user groups to which this user belongs
	$\frown$
	OK     X     Cancel
– Add a user	
User Name	Jane Wu
Password	•••••
Verify Password	*****
Note: For increased	I security, password should be at least 6 characters.
Continue to set th	as user arrays to which this user below
Contanue to set a	le user groups to which this user belongs
	OK × Cancel

Select the user groups the users belong to on the right list, i.e. Mr. Jones Lee for Administration Dept and Ms. Jane Wu for Sales Dept, and click Add. Then click Close.

Jser groups which <b>Jones Lee</b> belongs to		User groups which Jones Lee doesn't belong to
everyone	Add Renove	Administration Dept Sales Dept administrators
		Close
Specify the user groups users belong	) to	
Specify the user groups users belong ser groups which Jane Wu elongs to	a to	User groups which Jane Wu doesn't belong to
Specify the user groups users belong ser groups which Jane Wu alongs to vveryone	a to	User groups which Jane Wu doesn't belong to Administration Dept Sales Dept administrators
Specify the user groups users belong iser groups which Jane Wu elongs to everyone	a to	User groups which Jane Wu doesn't belong to Administration Dept Sales Deot administrators

iv. After creating the users, the users will appear on the list on Create User Page.



**Create Private Network Share for User Groups** 

You can create particular network share for each user group. The procedure is described as below:

 To create a network share called **media** accessible by Administration Department only, please go to "User Management—User Groups" page. Select the user group Administration Dept and click **Create Private Network Share** on the right.
 Enter the network share name **media**. Select to disk volume that the share will be created in and specify the path automatically or manually. Enter the comment for the network share, e.g. media folder for Admin Dept and click **Apply**.

	4	> he 💠 🖂 🔒 🗀 🖂 C
User Management		
Users	1. Select a user group	2. Settings
User Groups	TIAS LOCAL CREASE ==	Create
Create	Sales Dept	Create Brivate Network Share
Create Private Network Share	administrators everyone	Create a user group's private two share
<ul> <li>Assign Users</li> </ul>		August Veens
Delete		Delete
Quota		Remove one or more user groups

 Enter the network share name media. Select to disk volume that the share will be created in and specify the path automatically or manually. Enter the comment for the network share, e.g. media folder for Admin Dept and click Apply.

Disk Volume	Striping Disk Volume: Drive13	~	
Path	• Specify path automatically		
	O Enter path manually		
			Browse
Comment	media folder for Admin Dept		

3. You can see the folder media in Network Share Management page.

4. Enter Access Control. You can see that only Administration Dept has full access right

to the folder.

		4 He 💠 🖂 😫 🗀 🖂 🕞
Network Share Management		
Network Share Management	1. Network Shares	2. Settings
• Create	Admin dept	+ Create
Property	media	Create a network share
Access Control	test	Change the name, path and comment of a network
Delete		Arcess Control
		Set access right for a network share
		- Remove a network share

4. Enter Access Control. You can see that only Administration Dept has full access right to the folder.

- Access Control			
Users or Groups Configured Right to <b>media</b>	with Access	Users or Grou Right to <b>med</b>	ups Not Configured with Access dia
Administration Dept(Full acc	ess) Remov Permi Full acce	Add ===User G Sales Dept administrate everyone ==User== everyone ==User== andrew Bella Cynthia Derek Jane Wu	roup===
Guest Access Right:	Deny access	O Read only	O Full access
			- Close

# 6.7.3 Quota

To allocate disk volume efficiently, you can specify the quota that can be used by each user. When this function is enabled and a user has reached his/her disk quota, he/she cannot upload data to the server anymore. By default, no limitations are set for users. You can modify the following two options:

- i. Enable quota for all users
- ii. Quota size on each disk volume

– Quot	a				
ব	Enable quota for all users Quota size on each disk volume MB Note: Individual user quota size can be changed in Users • Quota Settings				
		•	ОК	-	Show Quotas

Please refer to the following example to configure the quota setting of users: The IT department is planning to set the disk quota of Mr. Jones Lee fromAdministration Department and Ms. Jane Wu from Sales Department on FNS7000B. The disk quota is 2000MB for Mr. Jones Lee and 4000MB for Ms. Jane Wu.

1. Please go to **Quota** page in **User Management** to enable quota for all users. Enter the quota size on each disk volume, e.g. 1000MB. The quota for individual user can be modified later.

	4	3 <b></b> 0	-0-		22		$\bowtie$	
User Management								
• USB S	Calla							
<ul> <li>Lser Groups</li> </ul>	Enable quota for al Users	2						
<ul> <li>Quili</li> </ul>	QUICTO DE DE VERTENE				1202 [14	В		
	Note: Brol-Adual user quota size o	tar be chang	ad in Users	Quota Get	tings			
				CK.	-	Sturre	0025	
							Contraction of the second	
2. Select J	ones Lee on User page and	click	Quota	a Sett	ings	on the	e right	

User Management		
Users	1. Select a user	2. Settings
• Create	== NAS Local Users==	+ Create
Create Multiple Users	Bella	Oli Create Multiple Lisers
Change Password	Cynthia Derek	Add two or more users
Create Private Network Share	Jone Wei	Change Password Change a user's password
<ul> <li>Assign User Groups</li> </ul>	administration	Create Private Network Share
<ul> <li>Quota Settings</li> </ul>	11	Create a user's private network share
Delete		Assign User Groups Specify the user groups users belong to
User Groups		Ouota Settings
Ouota		Set user's quad minitation
		Delete     Remove one or more users

1 Enter the quota size 200MB and click **OK**.

2 Follow the same steps and enter the quota size 4000MB for Jane Wu and click **OK**. The quota setting is successfully applied.

volame	Quota Size	Used Size	Status
Striping Disk Volume: Drive 1 3 (Free Size: 464621,86 MB)	2000 MB	0.00 MB	Available 2000.00
Set the quota size of Jones Lee on each di	sk volume		
O No limit 💿 Quot	a size; 2000	MB	
	• OK		× Cancel
- Quota status for user Jane Wu			
Volume	Quota Size	Used Size	Status
Striping Disk Volume: Drive 1 3 (Free Size: 464621.86 MB)	1000 MB	0.00 MB	Available 1000.00
Set the quota size of Jane Wu on each dis	< volume		
🔿 No limit 💿 Quot	ta size: 4000	MB	
			Y Coursel
	• OK		× Cancel
Network Share Management	• OK		× Cancel
			<b>V</b> (5100

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.







## 6.8.1 Create

To create a network share, enter the following information:

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

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

- 9 Disk volume This area shows the disk volume status.
- 9 Path All data are stored under the assigned path onto the disk volume. You can select "Specify path automatically" or assign a path manually. The path cannot exceed 256 characters and cannot contain the characters below:

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

9 Comment Enter a brief description for the share folder. The comment cannot exceed 128 characters.

isk Volume	Virroring Disk Volume: Drive12	~		
ath	Specify path automatically			
	O Enter path manually			
				Browse
omment			_	
🗹 Grant full access rig	ht for everyone			
Grant full access rig	ght for everyone right for guest			
Grant full access rig     Grant read access r     Grant read access r     Continue to set ac	ght for everyone right for guest cess right for this network share			
<ul> <li>Grant full access rig</li> <li>Grant read access r</li> <li>Continue to set ac</li> </ul>	ght for everyone right for guest cess right for this network share			

### 6.8.2 Property

To edit the property of an existing network share, select a share and click **Property**. You can then edit the content of that share.

Network Share Name Dick Volumo	Single Dick: Drive1	
JISK VOIUITIE		
'ath	/ddd	Browse
Comment	the developed or path of the development but that has also	adu avistad in the avisias
Comment Note: If you change t volume or path will no	the share's volume or path of the share, all data that has alre ot be moved.	ady existed in the origina
Comment Note: If you change ( volume or path will no	the share's volume or path of the share, all data that has alre at be moved.	ady existed in the origina
Comment Note: If you change ( volume or path will no	the share's volume or path of the share, all data that has alre at be moved.	ady existed in the origina

# 6.8.3 Access Control

Once the network share is created, you can assign access rights to users or user groups:  $\textcircled{\sc log}{\sc log}$  Deny access

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

- 9 Read only Users can read the files only on the network share when read only is assigned.
- 9 Full access Users with full access are allowed to read, write, create, or delete files and folders on the network share.

Users or Groups Configured v Right to <b>ddd</b>	with Access	Users or Groups Not Configured with Access Right to <b>ddd</b>	
==User Group=== everyone(Full access)	Add Remove Permission Full access	<ul> <li>===User Group=== administrators group 2 group 4 group1 group3 ===User=== aaa aaa'sd aaaa</li> </ul>	
iuest Access Right:	C Deny access	C Read only C Full access	

 $\textbf{6.8.4 Delete} Select \ a \ share \ and \ click \ delete. \quad Click \ \textbf{OK} \ to \ confirm.$ 

Please make sure	you want to delete network share	ddd.
Note: All active users who are	currently using this network share w	ill be disconnected.
	OK	<ul> <li>Carcal</li> </ul>



System Tools enable you to optimize the maintenance and management of FNS7000B.

	≁ 29 ∻ ⊟ 88 ⊡ 🖂 ⊑
System Tools	
SNMP Settings	<ul> <li>SNMP Service Setting</li> </ul>
Alert Notification	Enable SNMP Service
Restart/ Shutdown	Community Name
Hardware Settings	System Contact
• UPS	System Location
System Upcate	- SNMP Tran Setting
Change Logo     Remote Replication     Anth-Wice Configuration     Backup/ Restore/ Reset     Setting*     USB CD/DVD Backup/ Restore	Enable SNMP Trap Notification     Community Name     Trap Host IP Address     Send a test trap message     Apply

6.9.1 SNMP Settings

Enable SNMP (Simple Network Management Protocol) service and complete all necessary settings to manage network components of the server by SNMP. When enabling SNMP Trap Notification, a message will be sent to a specified trap host when an error occurs.

- SNMF	Service Setting					
	Enable SNMP Service					
	Community Name	test				
	System Contact					
	System Location	1				
- SNMF	Trap Setting					
	Enable SNMP Trap Not	ification				
	Community Name					
	Trap Host IP Address					
	Send a test trap mess	age				
					App	
				100	- ddw	â.

# 6.9.2 Alert Notification

Enter the e-mail address of administrator and SMTP server IP address. In case of warning or malfunction, e.g. CPU fan fails, a disk drive fails or is unplugged, an email will be sent to the administrator automatically. You can refer to Event Logs section in Statistics & Logs (refer to Chapter 6.10.2) to check all happened errors and warnings.

If your mailbox requires SMTP authentication, enter the user name and password.

**Note:** It is recommended to send a test e-mail to make sure you can receive the alert mails.

<ul> <li>Alert Notification</li> </ul>	
Alert level:	<ul> <li>High: Send e-mails on any errors or warning events</li> <li>Medium: Send e-mails only on critical errors</li> <li>Low: No alert e-mails will be sent</li> </ul>
E-mail (SMTP) server IP address;	<b>255</b> . 255 . 255 . 255
<ul> <li>Enable SMTP Authentication</li> <li>User Name :</li> <li>Password ;</li> </ul>	
E-mail address 1: E-mail address 2: Send a test e-mail	Apply

# 6.9.3 Restart/ Shutdown

Select to restart or shut down FNS-7000B.

t Deurs	
it Down.	
	t Down.

You can enable or disable the hardware functions of FNS-7000B.

– Hard	lware Settings		
	Enable LCD panel setting function Enable configuration reset switch Enable hard disk standby mode (if no access within 5 minutes 🕑 ) Enable buzzer ver Surphy Type Single 👽		
		•	Apply

i. Enable LCD panel setting function To enable users to configure TCP/IP settings via the LCD panel.

- ii. Enable configuration reset switch By enabling this option, you can press the reset button for a few seconds to reset the administrator password and system settings to default.
- iii. Enable hard disk standby mode When this function is enabled, hard disk will go to

standby mode if there is no access within the specified period.

iv. Enable buzzer When buzzer is enabled, an alert sound will be played in case of system error.

v. Power Supply Type Select power supply type. There is one power supply by default. **Do NOT change the position of default power supply.** To use a second power supply, you can purchase from the distributor.

To use two power supplies, follow the steps below:

1 Set power supply type as Redundant.

2 Shut down the system properly.

3 Insert the second power supply and turn on the system. If a power supply fails, the system will send an alert notification to theadministrator.

<b>v</b>	Stop network service	es when a hard disk of RAID fails
	Power Supply Type	Redundant 💌
		Single
		Redundant

## 6.9.5 UPS

If your UPS device provides USB interface, you can enable UPS (uninterruptible power supply) support to 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.

UPS Model	cownin [3] minute(s) w	hen the A	C power S with SN	status is MP Mana	abnormal. Igement 💌
IP Address of UPS		0	, 0	, 0	. 0
UPS Model					
Test	AC Power Status: Battery Power Status:				

**Enable UPS support** To activate the UPS support, you can select this option. You can set the shutdown timer to turn off the system automatically after the system detects the AC power is abnormal. In general, the UPS can keep supplying the power for the system

for about  $5 \sim 10$  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.

### IP Address of UPS

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

UPS Model		APC USB UPS (auto detect)			
IP Address of UPS		0.0.0	. 0		
UPS Model					
Test AC Power Status: Battery Power Statu		5:			
After selecting the U	PS model, click Test to make sure	e selection is correct.			
aiter selecting the c	PS Model, click rest to make sure	e selection is correct.			

# Note: When UPS support is not enabled, the Test button will not function. 6.9.6 System Update

### Note: If the system is running properly, you do not need to update the

Before updating system firmware, please make sure the product model and firmware version are correct. Follow the steps below to update firmware:

**Step 1:** Download the release notes of the same version as the firmware from LevelOne website <u>http://www.level1.com.tw/</u>. Read the release notes carefully to make sure you

need to upgrade the firmware.

**Step 2:** Before upgrading system firmware, back up all disk data on the server to avoid any potential data loss during system update.

**Step 3:** Click the [Browse...] button to select the correct firmware image for system update. Click **Update System** to update the firmware.

**Note:** System update may take tens of seconds to several minutes to complete depending on the network connection status. Please wait patiently. The system will inform you when system update is completed.





Version 1.0.0 build 0216 (FNS-7000B firmware version)

# 6.9.7 Change Logo

You can choose a personal picture to display on the login page of FNS-7000B. The size of the picture cannot exceed 20K bytes.



### 6.9.8 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. Make sure a network share is created before creating a remote replication job.

# **Using Remote Replication**

Login FNS-7000B, go to Remote Replication in System Tools.
System Tools			
<ul> <li>SNMP Settings</li> </ul>	<ul> <li>Remote Replication</li> </ul>		
Alert Notification		Nev	v Edit Delete
Restart/ Shutdown	Job Name	Schedule	Status
Hardware Settings	T test	15:45 - Renlicate Now	Einiched/15:45 2005/10/22)
UPS		13.45 - Kepicate Now	Filibileu(13,43 2003) 10/22/
System Update	weekly test	00:00 - Weekly:Monday	Ready
Change Logo			
Remote Replication			
Anti-virus Configuration			
Backup/ Restore/ Reset Settings			
<ul> <li>LICP (D)/D Pack in ( Pactore)</li> </ul>			

i. New

- a. Click **New** to enter the following page.b. Complete all settings and click OK to save or Cancel to quit.

mote	e Replication		
		Ne	w Edit Delete
	Job Name	Schedule	Status
	test	15:45 - Replicate Now	Finished(15:45 2005/10/22)
	weekly test	00:00 - Weekly:Monday	Ready

Job Name	
Rerrote Destination	
Remote Host Name / IP Address	
Destination Path (Network Share/Directory)	
User Name	
Password	
Remote Host Testing	Test (Status:)
Local Source	
Source Path (Network Share/Directory)	(UU) /
Replicate Now	
Replication Schedule	00 🖌 Hour : 00 🖌 Minute
O Daily	
O Weekly	Monday
	01 🕜 Day
Activate fle compression	
Stop network file services while replicating	
Perform incremental replication	

**Note:** To use remote replication. enable Microsoft Networking service. **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.

emote Repl	ication				
			New	Edit	Delete
	Job Name	Schedule		Stat	us
🗌 test		15:45 - Replicate Now		Finished(15:45	2005/10/22)
weel	dy test	00:00 - Weekly:Monday	0	Rea	dy

#### iii. Delete

a. Select the job to be deleted.

Click D	elete.		
– Remoti	e Replication		
		Nev	w Edit Delete
	Job Name	Schedule	Status
	test	15:45 - Replicate Now	Finished(15:45 2005/10/22)
	weekly test	00:00 - Weekly:Monday	Ready

### 6.9.9 Virus Scan

Virus scanning agent helps protect your system from being infected by viruses. You need to operate Windows NT or Windows 2000 server with virus-scanning software installed to perform real-time virus scanning. To enable virus scan support, specify the IP address of network share, the administrator ID and password.

– Virus	Scan		
	Enable Virus Scan Support IP Address of Virus Scan Server 0, 0, 0, 0, 0		
		•	Apoly

#### **Installing Virus Scan Agent**

Make sure virus scan agent and software are installed on the same computerwhich performs virus scanning before activating the agent.Follow the steps below to install

Virus Scan Agent:

- 1 Run Install Virus Scan Agent in FNS-7000B companion CD.
- 2 Click **Next** to continue Virus Scan Agent Setup.



3. Click Finish to complete.

	Setup has successfully installed Virus Scan Agent. Click Finish to complete Setup.
	Circk Pinish to complete Setup.
F	
🎭 😞	
$\Rightarrow$	
	( Rock Emith Concol

4. A screen will pop up to show the system information the first time you have successfully installed the virus scan agent.

NAS Servers: 17 server(s)         Server Name         IP Address         Status         Scaned         Infected         Lastest Scan Time         Result         Path           AD-recording         172.17.27.78	VAS Servers: 17 server(s)           Server Name         IP Address         Status         Scaned         Infected         Lastest Scan Time         Result         Path           AD-recording         172.17.27.78         - <t< th=""><th>Computer Name:</th><th>aurora</th><th></th><th>IP A</th><th>ddress: 172</th><th>.17.26.39</th><th></th><th></th></t<>	Computer Name:	aurora		IP A	ddress: 172	.17.26.39		
Server Name         IP Address         Status         Scaned         Infected         Lastest Scan Time         Result         Path           AD-recording         172.17.27.78	Server Name         IP Address         Status         Scaned         Infected         Lastest Scan Time         Result         Path           AD-recording         172.17.27.78	NAS Servers: 17 se	erver(s)						
AD-recording 172.17.27.78 MediaFlayer 172.17.26.30 NAS0001D7 172.17.26.30 NAS098F90 172.17.26.30 NAS0E004A 172.17.27.150 NAS0E004A 172.17.26.22 NAS100847 172.17.26.22 NAS10028 172.17.26.25 NAS101C28 172.17.26.37 NAS101C15 172.17.26.137 NAS101C1 172.17.26.137 NAS15918 172.17.26.140 NAS1F4349 172.17.26.52 NAS1F4349 172.17.26.52 NAS1F4349 172.17.26.52 NAS1F4349 172.17.26.15 NAS1F4349 172.17.26.140 NAS1F4349 172.17.26.15 NAS1F4349 172.17.26.15 NAS1F4349 172.17.27.11	AD-recording       172.17.27.78          MediaPlayer       172.17.26.20          VAS000107       172.17.26.30          VAS00017       172.17.26.30          VAS050040       172.17.26.30          VAS04041       172.17.26.30          VAS050042       172.17.26.22          VAS050044       172.17.26.25          VAS010128       172.17.27.91          VAS101028       172.17.27.91          VAS101028       172.17.27.91          VAS101028       172.17.27.91          VAS101028       172.17.26.25          VAS101028       172.17.27.91          VAS101028       172.17.27.91          VAS101028       172.17.26.26          VAS19318       172.17.27.52          VAS19318       172.17.26.37          VAS1948       172.17.27.51          VAS1930348       172.17.27.55          VAS1930348       172.17.27.57          VAS193044       172.17.27.57          VAS193045       172.17.27	Server Name	IP Address	Status	Scaned	Infected	Lastest Scan Time	Result	Path
MedaFlayer         172.17.26.20            NAS0001D7         172.17.26.30            NAS09B70         172.17.26.44            NAS09B70         172.17.26.44            NAS05004A         172.17.26.44            NAS0E004A         172.17.26.47            NAS0E004C         172.17.26.22            NAS100847         172.17.27.79            NAS101028         172.17.26.52            NAS101028         172.17.26.137            NAS10101C1         172.17.26.137            NAS10101C1         172.17.26.26            NAS11628         172.17.26.137            NAS10101C1         172.17.26.26            NAS1163918         172.17.26.52            NAS116349         172.17.26.52            NAS116349         172.17.26.52            NAS151840C         172.17.27.51            NAS151840E         172.17.27.51            NAS151840E         172.17.27.51	MediaPlayer       172.17.26.20          VAS0001D7       172.17.26.30          VAS009B70       172.17.26.44          VAS0004A       172.17.27.150          VAS0004C       172.17.26.44          VAS0004C       172.17.27.150          VAS0004C       172.17.26.22          VAS100847       172.17.26.25          VAS101C28       172.17.26.37          VAS101C45       172.17.26.140          VAS15181       172.17.26.140          VAS16424       172.17.26.140          VAS164349       172.17.26.140          VAS16430       172.17.27.61          VAS16430       172.17.27.63          VAS16430       172.17.27.51          VAS16430       172.17.27.57          VAS16430       172.17.27.57	AD-recording	172.17.27.78	1.000					
NAS000107 1217.26.30 NAS098F90 172.17.26.44 NAS0E004A 172.17.27.150 NAS0E004C 172.17.27.95 NAS10047 172.17.27.99 NAS101C28 172.17.26.25 NAS101C39 172.17.26.137 NAS101C15 172.17.26.137 NAS101C1 172.17.26.137 NAS11624 172.17.26.25 NAS1F3918 172.17.26.25 NAS1F3918 172.17.26.52 NAS1F4349 172.17.26.52 NAS1F4349 172.17.26.52 NAS1F4349 172.17.26.52 NAS1F4349 172.17.26.52 NAS1F4349 172.17.26.52 NAS1F4349 172.17.26.52 NAS1F4349 172.17.27.51 NAS1F4349 172.17.51 NAS1F4349 172.17.51 NAS1F4349 172.17.51 NAS1F4349 172.17.51 NAS1F4349 172.17.51 NAS1F4349 172.17.51 NAS1F4349 172.17.51 NAS1F4349 172.17.51 NAS1F4349 172.17.51 NAS1F4349 172.51 NAS1F4349 172.51 NAS1F4349 172.51 NAS1F4349 1	VAS000107       172.17.26.30          VAS09BF90       172.17.26.44          VAS09D044       172.17.27.150          VAS010047       172.17.27.150          VAS100847       172.17.27.150          VAS100817       172.17.26.22          VAS100128       172.17.27.150          VAS10128       172.17.26.25          VAS101028       172.17.26.137          VAS101015       172.17.26.137          VAS110128       172.17.26.137          VAS11021       172.17.26.137          VAS11024       172.17.26.137          VAS11025       172.17.26.140          VAS110449       172.17.26.140          VAS11040           VAS11040           VAS11040           VAS11040           VAS11041       172.17.26.137          VAS11040           VAS11040           VAS11040       172.17.27.11          VAS11	MediaPlayer	172.17.26.250						
NAS098F90 17217.26.44 NAS0E004A 17217.27.50 NAS0E004C 17217.26.22 NAS100847 17217.26.22 NAS101C28 17217.26.25 NAS101C39 17217.27.91 NAS101C45 17217.26.137 NAS101C1 17217.26.137 NAS1F318 17217.26.140 NAS1F4349 17217.26.140 NAS1F4349 17217.26.52 NAS1F4349 17217.26.52 NAS1F4349 17217.27.51 NAS1F4349 17217.27.51 NAS1F4349 NAS1F434	NAS098F90       172.17.28.44          VAS0E004A       172.17.27.150          VAS0E004C       172.17.28.22          VAS0E0047       172.17.28.22          VAS101C28       172.17.28.25          VAS101C39       172.17.27.91          VAS101C35       172.17.27.91          VAS101C45       172.17.26.137          VAS101C51       172.17.26.26          VAS101C1       172.17.26.140          VAS1918       172.17.26.52          VAS1926       172.17.26.52          VAS1938       172.17.26.52          VAS1940       172.17.26.52          VAS1926       172.17.26.53          VAS1940       172.17.27.51          VAS1988       172.17.27.75          VAS1980303       172.17.27.75	NAS0001D7	172.17.26.30						
NAS0E004A 172:17.27.150 NAS0E004C 172:17.26.22 NAS100847 172:17.27.79 NAS101C28 172:17.26.25 NAS101C39 172:17.26.137 NAS101C55 172:17.26.137 NAS101CC1 172:17.26.26 NAS1F3918 172:17.26.140 NAS1F4349 172:17.26.52 NAS1F4349 172:17.26.52 NAS1F4349 172:17.26.54 NAS1F4349 172:17.26.54 NAS1F4349 172:17.26.55 NAS1F4349 172:17.26.55 NAS1F4349 172:17.27.51 NAS1F4349 172:17.51 NAS1F4349 172:17.51 NAS1	VAS0E004A       172.17.27.15	NAS09BF90	172.17.26.44	1000					
NAS0E004C 17217.26.22 NAS100847 17217.27.29 NAS101C28 172.17.26.25 NAS101C39 172.17.26.137 NAS101C05 172.17.26.137 NAS101CC1 172.17.26.32 NAS151318 172.17.26.52 NAS1F4349 172.17.26.52 NAS1F4349 172.17.26.52 NAS1F4349 172.17.26.51 NAS1F9ACC 172.17.27.51 NAS1548 172.17.51 NAS1548 172.17.51 NAS1548 172.17.51 NAS1548 172.17.51 NAS1548 172.17.51 NAS1548 172.17.51 NAS1548 172.17.51 NAS1548 172.17.51 NAS1548 172.17.51 NAS1548 172.51 NAS1548 172.51 NAS1548 172.51 NAS1548 172.51 NAS1548 172.51 NAS1548 172.51 NAS1548 172.51 NAS1548 172.51 NAS1548	VAS0E004C       172.17.28.22          VAS100847       172.17.27.79          VAS101C38       172.17.28.25          VAS101C39       172.17.28.137          VAS101C1       172.17.28.137          VAS101C1       172.17.28.26          VAS101C21       172.17.28.137          VAS101C41       172.17.28.26          VAS1173318       172.17.28.26          VAS1F34QC       172.17.26.52          VAS1F34S       172.17.26.52          VAS1F34S       172.17.26.57          VAS154B       172.17.27.61          VAS1588       172.17.26.37          VAS158400       172.17.27.75	NAS0E004A	172.17.27.150	144					
NAS100847         172.17.27.79            NAS101C28         172.17.26.25            NAS101C39         172.17.27.91            NAS101C45         172.17.27.91            NAS101C55         172.17.26.137            NAS101C11         172.17.26.26            NAS1F318         172.17.26.140            NAS1F4349         172.17.26.52            NAS1F5435         172.17.27.51            NAS1F5445         172.17.27.51	NAS100847       172.17.27.59          VAS101C28       172.17.26.25          VAS101C39       172.17.27.91          VAS101C85       172.17.26.137          VAS101C11       172.17.26.137          VAS101C28       172.17.26.140          VAS15181       172.17.26.140          VAS15444       172.17.26.140          VAS154518       172.17.27.61          VAS1546       172.17.27.61          VAS1548       172.17.27.63          VAS5584030       172.17.27.75	NAS0E004C	172.17.26.22						
NAS101C28 172.17.26.25 NAS101C39 172.17.26.137 NAS101C65 172.17.26.137 NAS101C1 172.17.26.26 NAS1F3918 172.17.26.26 NAS1F4349 172.17.26.52 NAS1F4349 172.17.26.52 NAS1F4349 172.17.27.51 NAS1548 172.17.51 NAS1548 172.51 NAS1548 172.51	VAS101C28       172.17.26.25          VAS101C39       172.17.26.137          VAS101C5       172.17.26.137          VAS101C1       172.17.26.140          VAS157318       172.17.26.120          VAS1F3449       172.17.26.52          VAS1F3616       172.17.27.61          VAS1F3618       172.17.27.11          VAS1580       172.17.27.17          VassSSSa4030       172.17.27.75	NAS100847	172.17.27.79						
NAS101C39 172.17.27.91 NAS101C85 172.17.26.137 NAS101CC1 172.17.26.26 NAS1F318 172.17.26.140 NAS1F3318 172.17.26.52 NAS1F34CC 172.17.27.51 NAS1F34CC 172.17.27.51 NAS5158 172.17.27.51	VAS101C39       172.17.27.91          VAS101C1055       172.17.26.137          VAS101C11       172.17.26.26          VAS175318       172.17.26.140          VAS1F349       172.17.26.52          VAS1F340C       172.17.26.52          VAS1F348       172.17.27.61          VAS1F348       172.17.27.61          VAS1588       172.17.27.63          VAS158903A8       172.17.27.57          VassSSSa4030       172.17.27.75	NAS101C28	172.17.26.25						
NAS101C85         172.17.26.137            NAS101CC1         172.17.26.26            NAS1F3918         172.17.26.140            NAS1F3919         172.17.26.52            NAS1F919ACC         172.17.27.61            NAS5158         172.17.27.11	VAS101C85         172.17.26.130            VAS101CC1         172.17.26.140            VAS1F3918         172.17.26.140            VAS1F3918         172.17.26.140            VAS1F3449         172.17.26.140            VAS1F340C         172.17.26.17            VAS1F340C         172.17.27.61            VAS1F340C         172.17.27.63            VAS500348         172.17.27.57	NAS101C39	172.17.27.91						
NAS101CC1 172.17.26.26 NAS1F3918 172.17.26.140 NAS1F4349 172.17.26.52 NAS1F4345 172.17.26.51 NAS1F9ACC 172.17.27.51 NAS1594 172.17.27.51	VAS101CC1         172.17.26.26            VAS1F3018         172.17.26.140            VAS1F4349         172.17.26.140            VAS1F4340         172.17.26.17            VAS1F34C1         172.17.27.61            VAS1F384C1         172.17.27.61            VAS19303A8         172.17.27.63            VassSSSsa4030         172.17.27.75	NAS101C85	172.17.26.137						
NAS1F3918 172.17.26.140 NAS1F4349 172.17.26.52 NAS1F9ACC 172.17.27.51 NAS51F8 122.17.27.11	VAS1F3918         172.17.26.140            VAS1F3439         172.17.26.52            VAS1F34C0         172.17.27.61            VAS1F84C1         172.17.27.61            VAS1F84C1         172.17.27.11            VAS1590348         172.17.26.37            VassSSSsa4030         172.17.27.75	NAS101CC1	172.17.26.26						
NAS1F4349 172.17.26.52 NAS1F9ACC 172.17.27.61 NAS1518 122.17.27.11	VAS1F3429     172.17.26.52        VAS1F9ACC     172.17.27.61        VAS5169     172.17.27.111        VAS5903A8     172.17.26.37        VassSSSa4030     172.17.27.75	NAS1F3918	172.17.26.140	1.20					
NAS1F9ACC 172.17.27.61	VAS1F9ACC 172.17.27.61 VAS5168 172.17.27.11 VAS9903A8 172.17.26.37 VassSSSaa4030 172.17.27.75	NAS1F4349	172.17.26.52						
NAS5168 17217 27 111	VAS5168 172.17.27.111 VAS9903A8 172.17.26.37 VassSSSaa4030 172.17.27.75	NAS1F9ACC	172.17.27.61						
TEALER TH	VAS9903A8 172.17.26.37 NassSSSaa4030 172.17.27.75	NAS5168	172.17.27.111						
NAS9903A8 172.17.26.37	VassSSSaa4030 172.17.27.75	NAS9903A8	172.17.26.37	1.228					
NassSSSaa4030 172.17.27.75		NassSSSaa4030	172.17.27.75	1440					
				<u></u>	1	1	<u> </u>		

The description of the fields is as below:

Fields	Description
Server Name	Name of the network share under the protection of virus scan agent
IP Address	The IP address of the network share
Status	Connection status of the host network share with the virus scan agent: <i>Disconnect:</i> Not connected to the network <i>Idle:</i> Connection has been enabled but there is no file transfer for three minutes or more. <i>Ready:</i> Connection has been enabled and ready to be scanned <i>Idle:</i> User name and password have not been set up
Infected	Number of infected files
Last Scan Time	Date and time of the most recent virus scanning job

Result	Scanning result: OK: No files are infected • <i>Virus</i> <i>Found:</i> Virus is found. The name of the infected file(s) may not be displayed due to the scanning of other files. Go to administration page to view the name and location of the infected file(s). • <i>Access</i> <i>Denied:</i> Access to the server is denied. <i>Authentication Failed:</i> The login user ID is not authorized to access the folder of the network share.
Path	The file location on the network share

## Enabling Virus Scan Support

Go to Virus Scan of System Tools. To enable virus scan support, check the box Enable Virus Scan Support. Enter the IP address of the virus scan server and click **Apply**.

-	Virus	Scan		
	Γ	Enable Virus Scan Support IP Address of Virus Scan Server 0, 0, 0, 0, 0		
			•	Apoly

## Viewing Details of Infected Files

To view the details of infected files of the network share, go to Event Logs of Statistics & Logs. A warning message will be shown in the table.

Active Users				
Event Logs	Display All e	vents 🔽 There are 2 events.	Δ 1	$\checkmark$
DHCP Logs	Туре	Content	Date	Time
	Error	Virus found in the file: /public/virus	05/15/2003	17:03:02
	Information	Connection to Virus Scan Agent is successful. Virus Scan protection is activated	05/15/2003	17:02:52

# 6.9.10 Backup/ Restore/ Reset Settings

To backup the setting(s), select the appropriate option(s) and click

**Backup**. To restore a backup settings file, click **Browse** to select the file and click **Restore**. To reset the setting(s) to factory default(s), select the appropriate option and click **Reset**.

<ul> <li>Disk Configuration</li> <li>Share Volume Settings</li> <li>Hardware Settings</li> <li>System Settings</li> <li>Network Configuration</li> <li>All Settings</li> </ul>		User / User Group Settings
<ul> <li>Share Volume Settings</li> <li>Hardware Settings</li> <li>System Settings</li> <li>Network Configuration</li> <li>All Settings</li> </ul>	Γ	Disk Configuration
<ul> <li>Hardware Settings</li> <li>System Settings</li> <li>Network Configuration</li> <li>All Settings</li> </ul>	Γ	Share Volume Settings
System Settings Network Configuration All Settings	Γ	Hardware Settings
Network Configuration     All Settings	Γ	System Settings
All Settings	Г	Network Configuration
		All Settings

6.9.11 USB CD/ DVD Backup/ Restore

USB Backup/Restore function enables you to back up local data to CD/DVD discs via USB CD/DVD burner, and CD/DVD data to local disk.

## Using USB Backup/Restore

SB CD/DVD Backup/ Rest	ore
Device:	No device detect
Media Type:	No media detect
Maximum Write Speed:	
Status:	No Disc
	Re-detect Eject Disc
Write Data	
Volume Label:	
Source Path (Network Share/ Directory):	test 💙 /
Write Speed:	18 💌
	Write to disc Stop Writing Erase Rewritable Disc
Status:	Idling Refresh
Load Data	
CD Label	
Destination Path (Network Share/ Directory):	test 💌 /
• Overwrite existing files	
O Skip existing files	· · · · · · · · · · · · · · · · · · ·
	Load Stop Loding
Status:	Idling Refresh

### i. USB CD/DVD Detection

a. Connect USB burner to FNS-7000B. Turn on the burner and input a writable disc.

b. Click **Re-detect**. The system will display information of the detected burner.

c. Click **Eject Disc** to eject the disc from the burner.

d. Insert the disc again and click **Re-detect** and continue to use writing and loading functions.

USB Backup/ Restore	
Device:	[ATAPI ][DVD DD 2X16X4X16][G7J9]
Media Type:	DVD+RW
Maximum Write Speed:	4.0x
Status:	Ready
	Re-detect Eject Disc

## ii. Write data

a. To write data from FNS-7000B to disc, enter the volume label name.

b. In Source Path (Network Share/Directory), select a network share from the drop-down menu and enter a directory name. You can also use stroke to indicate multiple directories, e.g. sales/jenny.

c. Select Write Speed.

d. Click **Write to disc** to write data to the disc. To view updated writing status, click Refresh.

e. The disc will be ejected after burning.

Write Data			
Volume Label:	Sales		
Source Path (Network Share/ Drectory):	test 💌 /sales/jer	nny	
Write Speed:	4.		
	Write to disc	Stop Writing	Erase Rewritable Disc
Status:	Idling	Refre	sh
Write Data			
Volume Label:	Sales		
Source Path (Network Share/ Directory):	test 💌 /sales/jer	nny	
Write Speed:	10x 💌		
	Write to disc	Stop Writing	Erase Rewritable Disc
Status:	11.32%	Refre	sh

## iii. Load data

a. Insert the disc for loading data to FNS-7000B network share. The volume label is shown in CD Label.

b. In Destination Path (Network Share/Directory), select a network share from the drop-down menu and enter a directory name. You can also use stroke to indicate multiple directories, e.g. sales/jenny.

c. Select **Overwrite existing files** to overwrite existing files in the directory or **Skip existing files** to skip loading files that have existed in the directory during loading process.

d. Click Load to load data to destination path.

e. The disc will be ejected after loading.

Load Data			
CD Label	Sales		
Destination Path (Network Share/ Directory):	test 💌 / sa	es/jenny	
• Overwrite existing files • C Skip existing files			
		Load	Stop Loding
Status:	Idling	Refresh	

Load Data			
CD Label	Sales		
Destination Path (Network Share/ Directory):	test 💌 / sale	es/jenny	
C Skip existing files			
		Load	Stop Lodng
Status:	Initialize	Refresh	

### 6.10 Statistics & Logs



You can view the event logs of all currently online users on FNS-7000B for system monitoring.

### 6.10.1 Active Users

This page shows all users that are currently logged on to Web File Manager.

		4	5-10	->- == ₽	22 🗀 🖂	
tatistics & Logs						
Active Users						
Event Logs	There is 1 user currently logged on to the system.					
DHCP Logs	Network Share	User	From	Login Time	Connection Type	
		administrator	10 0 12 40	22/02/46 Tuo Aug 22 20	105 Web File Manager	

### 6.10.2 Event Logs

FNS-7000B can store thousands of recent event logs, including warning, error and information messages. In case of system malfunction, event logs can be retrieved to analyze system problems.

Display	Errors only	There are 2 events.	Δ 1	
Type	Warnings and errcrs		Date	Time
Error	Errors only		09/08/2005	16:19:35
Error	Disk drive 2 failed or unplugge one.	d. Please use a new hard disk to replace the old	09/07/2005	17:45:34
			× d	ear

6.10.3 DHCP Logs

When DHCP service is enabled, you can refer to DHCP logs to monitor all assigned dynamic addresses, client MAC addresses and other information.

## Chapter 7 Access FNS-7000B

## 7.1 By Microsoft Windows

1. You can access FNS-7000B in Windows OS by the following ways:

a. By Quick Install Wizard. For further information, please refer to Chapter 4.

b. You may also search for FNS-7000B within the Network Neighborhood. Locate the workgroup and find the name of your FNS-7000B. When the server is found, double-click on the server name to connect.

c. You may also use "Search for Computers" function to look for your FNS-7000B in Windows. Under Windows OS, please follow these steps:

i. Open "My Network Places".

ii. Under the tool bar, click Search.

iii. Enter the name of FNS-7000B in Computer Name field.

iv. Click  $\ensuremath{\textbf{Search}}$  . When FNS-7000B is found, double click the item to access the server.

d. Use Run function in Windows. Type  $\[$ server name] or  $\[$ server IP] to access share folder on FNS-7000B.

Run	2
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	\\12.8.10.17
	OK Cancel Browse

 Once the connection to FNS-7000B is successful, all listing on your available network share will be displayed. Use the option Map Network Drive to map the folder(s) as your network drive.



## 7.2 By Apple MAC OS

If you are an Apple MAC user, you can access FNS-7000B by the following ways:

### 1. Using Network Browser

a. Choose "Network Browser" in Apple menu.

b. In "Network Browser", choose AppleTalk. A list of computers on the AppleTalk network will appear. Select FNS-7000B.

c. Enter the login name and password, or use "Guest" to enter. Click Connect.

d. When FNS-7000B is connected, all network shares will be shown.

e. Choose a network share to connect. The network share will appear on the desktop.



🗅 🥌 Network 🔤 🗄	J E
¢ 👉 🚯. 🔇. 🗇	
Name	4
AppleTalk     Map.four11.com	
	4 4
Connect to the file server "NAS00009D" as:	
Guest     Begistered User	
Name:	
Password: 🗌 🗌 Add to Keychain Clear Text Password	
Change Password Cancel Conxect	





### 2. Using Chooser

a. Select Chooser on Apple menu bar.

b. Click on  $\ensuremath{\textbf{AppleShare}}$  . The name of FNS-7000B will appear on the right side of the window.

c. Use the mouse to highlight FNS-7000B and click OK.

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

e. All available network shares will be listed. Select a network share and click  $\ensuremath{\mathsf{OK}}.$ 

f. Close the Chooser program. Double click on the icon on the desktop to access the files.





	Connect to the file serv	er "NAS1234" as:
	🔾 Guest	
	Registered User	
	Name:	
	Password:	🗌 Add to Keychain
	Clear Text Password	
<b>C</b>	hange Password	Cancel Connect



7.3 By Linux OS

In addition to Microsoft and MAC OS, FNS-7000B also supports Linux systems through the NFS service:

 On Linux, run the following command: mount -t nfs <FNS-7000B IP address>:/<Network Share Name> <Directory to Mount>

For example, if the IP address of your FNS-7000B 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. Login as the user id you define, you can use the mounted directory to access your network share files.

### 7.4 By Web Browser

Other than OS support, your FNS-7000B also provides a convenient web file management interface that allows using a standard web browser to access your data. If you link FNS-7000B to the Internet and use a public IP address, you can access the files on the server anywhere. For more information, please refer to Appendix A. **7.5 By File Transfer Protocol (FTP)** 

In addition to working with multiple operating systems, FNS-7000B also supports connection via FTP. Enter the correct user name and password to connect the server or access the public share folders as guest.

Please go to **Network Settings—FTP service** and enable FTP service before using FTP service.

		4	2-0			88		$\bowtie$	
Network Settings									
TCP/IP Configuration	- FTP Service								
Microsoft Networking	Enable FTP Service								
Apple Networking	Port Number			21					
Linux (NFS) Service	Maximum Connections	\$ .		30					
Web File Manager	Unicode Support			O Yes 💿	No				
FTP Service									
Network Printer Service							-	-	
View Network Settings							<ul> <li>Apply</li> </ul>		

Follow the steps below to use FTP service:

1 Open an IE browser and type ftp://[server IP] or ftp://[server name]. OR

2 By Web File Manager of FNS-7000B.

a. Go the FNS-7000B administration and click Web File Manager. Enter user name and password to login FNS-7000B.

b. Click the share folder in **FTP** section.

c. When the ftp folder is shown, enter user name and password.

d. The share folder will be shown. You can then manage the folder by dragging and dropping files to it, as well as rename or delete the files.



<b>@</b> ftp://:	172.17.26.81/ - M	icrosoft Int						
Login As					×			-
<b>?</b>	Could not login to t password specified	he FTP server I.	r with the user	name and		Bloc	کی 💽	io 🛛 🔁 🗸 🔹
	FTP Server: 17	2.17.26.81						
	User Name:	Iministrator		-				
	Password:							
	After you login, yo by adding it to you	u can return t r Favorites Lis	to this FTP serv st.	er easily				
		iuslv	Save Pase	word				
		,			cel			
		-	Login					
Connecting	1 to 172.17.26.81		Use	r: administr	rator	🕐 Inter	net	
Connecting	1 to 172.17.26.81 26.81/ - Microsof	t Internet I	Use Explorer ers 24 D	r: administr	ator	🔮 Inter	net	
Connecting ftp://172.17.2 ↓ ← Back → → Address ③ ftru	to 172.17.26.81 2 <b>6.81 / - Microsol</b> 	't Internet I ch 🔓 Folde	Use Explorer ers 🏼	r: administr 1921	rator	S Inter	net	
Connecting Connecting Ftp://172.17.2 ↓ ← Back ← → ↓ Address ④ ftp:,	to 172.17.26.81 2 <b>6.81/ - Microsol</b> ☞ 主   @Sear //172.17.26.81/	it Internet I ch ট≧Fold	Use Explorer ers 🚳 🖡	r: administr I I I I (2) Go	ator > 	Inter	net	
Connecting Connecting Ftp://172.17.2 ↓ ⊕ Back → → Address Q ftp:,	i to 172.17.26.81 2 <b>6.81/ - Microsof</b> • 🔁 🔯 Sear //172.17.26.81/	ît Internet I :h টি⊨Fold	Use Explorer ers 🌀 🖣	r: administr P ] ∂ Go	rator 	Market Inter	net	11
Connecting ftp://172.17.2 J ← Back ~ → Address ① ftp:, public	1 to 172.17.26.81 2 <b>6.81 / - Microsol</b> ✓ 💼   @Seard //172.17.26.81/	ft Internet I ch 대급Fold	Use Explorer ers 🔞 🖡	r: administr すり こ こ の Go	ator	Market Street	net	
Connecting Connecting Ftp://172.17.2 Ftp://172.172.1 Ftp://172.1 Ftp://172.172.1 Ftp://172.172.1	i to 172.17.26.81 2 <b>6.81/ - Microsof</b> - 🔁 🛛 🍳 Sean //172.17.26.81/	î <b>t Internet I</b> ch টি Fold	Use Explorer ers 🎯 🕅	r: administr 1 2 2 2 6 6 6 0	ator	Inter	net	
Connecting	1 to 172.17.26.81 2 <b>6.81/ - Microsol</b> 	ft Internet I ch 🔁 Fold	Use Explorer ers 3	r: administr Q CGo	ator	Inter	net	
Connecting Connecting Ftp://172.17.2 Connecting Ftp://172.172.172 Ftp://172.172.172 Ftp://172.172.172 Ftp://172.172.172 Ftp://172.172 Ftp://172.172 Ftp://172.172.172 Ftp://172.172.172 Ftp://172.172 Ftp://172 Ftp://172.172 Ftp://172 Ftp://17	) to 172.17.26.81 2 <b>6.81/ - Microsof</b> → 🔁 🛛 🏹 Sean //172.17.26.81/	<mark>ît Internet I</mark> ch ট <b>ि</b> Fold	Use Explorer ers 🧐 🖡	r: administr	ator	Market Street	net	
Connecting Connecting Ftp://172.17.2 ↓ ← Back → → Address ① ftp:, public	) to 172.17.26.81 2 <b>6.81/ - Microsol</b> ✓ 🔁 🔯 Sear //172.17.26.81/	ft Internet I ch টিFold	Use Explorer ers 🏼 🖉	r: administr C	rator	Inter	net	
Connecting ftp://172.17.2 Head + Head + Head Address I ftp:// public	1 to 172.17.26.81 26.81/ - Microsol 26.81/ - Microsol 26.81/ 26.81/ 26.81/	ft Internet i ch টি Fold	Use Explorer ers	r: administr	ator	Jinter	net	
Connecting Connecting Ftp://172.17.2 → Back → → Address () ftp:, public	) to 172.17.26.81 <b>26.81/ – Microsol</b> <b>26.81/ – Microsol</b> <b>27.17.26.81/</b>	ft Internet i ch টি Fold	Use Explorer ers 🏼 🖓	r: administr C	rator	Inter	net	
Connecting ftp://172.17.2 J ← Back ~ → Address ① ftp:, public	1 to 172.17.26.81 26.81/ - Microsol - 🔁   🔞 Sear //172.17.26.81/	ft Internet ( ch <sup>C</sup> ⊡ Fold	Use Explorer ers	r: administr ☐ ☐ ☐ $\widehat{C}$ Go	ator	i Inter	net	
Connecting ftp://172.17.2 ↓ ← Back → → Address ① ftp:, public	) to 172.17.26.81 26.81/ - Microsol (172.17.26.81/	ft Internet ch টੇ Fold	Use Explorer ers <table-cell> 🖡</table-cell>	r: administr	ator	Market Street St	net	

Chapter 8 Maintenance

FNS-7000B is specially designed to run 24x7 and be ready at all times against system crash caused by power outage. This section provides a general overview on system maintenance.

## 9.1 Restart/ Shut down Server

Follow the steps below to restart or shut down FNS-7000B.

1 Ask all active users of FNS-7000B to save their files and disconnect from the server.

2 Enter the administration page and select Restart/ Shutdown in System Tools.
3 Click **Restart** to reboot the server or **Shut Down** to turn off the server. You can perform these actions by the LCD panel.

– Restart / Shutdown		
To restart the server, click Restart. To shut down the server, click Shut Down.		
	Restart	Shut Down

## 9.2 Reset Administrator Password and Network Settings

To reset the administrator password and network settings of FNS-7000B,
Press the reset button of FNS-7000B for a few seconds. A beep sound will be heard.
Login FNS-7000B with the default user name and password:

**Note:** To reset the system by the reset button, the option "Enable configuration reset switch" in Hardware Settings must be activated.



- Hardware Settings		
Enable LCD panel setting function		
Enable configuration reset switch		
Enable hard disk standby mode (if no access within 5 minutes )		
Enable buzzer		
Power Supply Type Single 💌		
	•	Apply

### 5.1 Disk Failure or Malfunction

When you encounter disk malfunction or failure, please do the following:

- 1 Record the malfunction status or error messages.
- 2 Stop using the failed FNS-7000B and turn off the server.
- 3 Contact customer service for technical support.

**Note:** Your FNS-7000B 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 lossdue to disk crash.

### 5.2 Power Outage or Abnormal Shutdown

In case of power outage or improper shutdown of FNS-7000B, the system will

resume to the state before it is shut down. If your server does not function properly after restart, please do the following:

1 If the system configuration is lost, configure the system again.

2 In the event of abnormal operation of the server, contact customer service for technical support.

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

Follow the instructions described in Chapter 9.1 to restart or shut down the server.

If there is an anticipated power outage, back up all important data and turn off the server properly until power supply is resumed.

# Appendix A Web File Manager

#### Using Web File Manager

To use Web File Manager, enable web service in Network Settings first.

	4	2-0	÷		88	
Network Settings				11		
TCP/IP Configuration	- Web Service					
Microsoft Networking	Enable Web File Manager					
Apple Networking						
Linux (NFS) Service						-
Web Service						<ul> <li>Apply</li> </ul>

Launch the web browser and go to FNS-7000B home page. Select **Web File Manager** and enter the correct login name and password. You may also enter "guest" in the login name field with no password to access the network shares on FNS-7000B as an anonymous guest.

Note: Make sure a network share has been created before using Web File Manager.



•	•	
And the second s		

	FTP	
	Share Folder	Comment
	Admin dept	
	Quarantine	Virus Quarantine Folder
	Sales	
	test	

You can organize network share folders of FNS-7000B. With Web File Manager, you can upload, rename, or delete files and folders in the network shares.

				Ŷ	$\approx$	ŝ	<b>-</b>	A→B	$\sim$	₽	Ľ∕	\$2
	admini	istrator: t	est/									
V	test										$\triangle$ 1	$\checkmark$
			Name							Size	Date	
			drawing							~	2005/1	0/22 16:28
			nasclient							-	2005/1	0/22 16:28
			1.gif						ç	90 KB	2005/0	9/26 09:19
		D	2.gif						ç	97 KB	2005/0	9/26 09:43
		D	Book1.csv						13	86 KB	2005/0	9/22 06:23
		D	star.jpg						67	71 KB	2005/1	0/22 16:27
	Uploa	ad filena	me:			Brows	e		4		Upload	

#### View files online

Click on a file displayed on the web page. The information of the file will be displayed. If your browser does not support the file format, the download window pops up automatically. Once the file is downloaded, you can open it on your computer.

#### Create folder

- i. Select a network share or folder in which you want to create a new folder.
- ii. Click

(Create Folder) on the toolbar.

iii. Enter the name of the new folder and click OK. Rename file or folder

- i. Select a file or folder to rename.
- ii. Click



(Rename) on the toolbar.

iii. Enter the new file or folder name and click OK.

### Delete file or folder

- i. Select a file or folder to delete.
- ii. Click



(Delete) on the toolbar.

iii. Confirm to delete the file or folder.



#### Download file

i. Select a file to download.

ii. Right click the mouse and select "Save Target As" to save the file.

#### Logout

To exit Web File Manager, click



### Viewing Files Named in Chinese

To view files named in Chinese, you may have to configure the browser settings. Take Internet Explorer as an example, follow the steps below to configure the settings.

1. Click on **Tools** in IE browser.



5. Restart the browser. Web File Manager I cons

Icon	Description
Ŷ	Up-return to the parent folder
2	Refresh-reload the current page
\$	Home-return to network share list home page
ł	Create folder
A→B	Rename file or folder
Х	Delete file or folder

	Select all
	Cancel selection
Ą	Logout
The second second	Full access network share folder
R	Read-only network share folder
	Malfunction network share folder

# **Appendix B Configuring AD Authentication**

AD environment mixed mode can be supported by FNS-7000B. For example, qatest.com.tw and sub2.qatest.com.tw are domains controlled by Windows 2003 server, and sub1.qatest.com.tw domain is controlled by Windows 2000 server.



Please make sure you have enabled the Active Directory Service on the Windows Server and check the following items:

1 DNS Server setting on FNS-7000B has to be directed to AD server.

2 FNS-7000B and AD server can synchronize only if their time difference is less than 5 minutes.

3 FNS-7000B and AD server will synchronize each 5 minute. To configure the settings manually, FNS-7000B has to be set as standalone mode and then added to AD

domain.

4 When adding FNS-7000B to AD domain, please login by domain\_name\Username. FNS-7000B local user cannot login AD domain.

5 Inter-network segments can be used.

6 If you are using NT Domain, please select standalone mode when you want to upgrade the system, then join AD domain.

7 It is suggested to use Windows 2000 Service Pack 4, or Windows 2003 Service Pack 1.

8 When FNS-7000B is added to AD domain, the authority of "everyone" will not work, "everyone" is the original account of FNS-7000B, but doesn't include AD. Therefore the authority has to be reset.

9 The DNS setting on Windows 2000 server should be added as "Active Directory DNS", the server should be rebooted after DNS setting is set.

10 You should use the full domain name on the AD setting of FNS-7000B. For example, if your FQDN name of AD server is "ad.test.com.tw", you should use "test.com.tw" as the ad domain setting on FNS-7000B.

11 The DNS setting on AD server should have the IP of AD server itself.

12 You must change the password of "administrator" after you create "Active Directory" service on AD server.

13 The DNS server on the AD Server should have two records on it. For example, AD Server Name: 2003tc.testad.com DNS record on DNS Server 2003tc.testad.com A 192.168.1.100 testad.com A 192.168.1.100 One is "A record" for AD server, and the other is the domain "A record" for DNS queries.

#### Adding FNS-7000B to Windows Server 2003 Active Directory Domain

1 Go to TCP/IP Configuration in Network Settings. Enter the IP address of primary DNS server. You can inquire AD domain via this DNS server.

2 Go to Microsoft Networking of Network Settings. Enable AD Domain Member, and enter the domain name and the user name with administrator access right to that domain.

	≁ 7: 🕂 🕂 🗠 🖓
Network Settings	
TCP/IP Configuration	- TCP/IP Configuration
Microsoft Networking	
Apple Networking	Configuration of Network Interfaces 💿 Fail Over 🔘 Load Balance 🔘 Standalone
Linux (NFS) Service	Network Speed auto-negotiation
Web Service	
FTP Service	Fall Over
Network Printer Service	
View Network Settings	O Obtain IP address settings automatically via DHCP
	<ul> <li>Use static IP address</li> </ul>
	Fixed IP Address 172 . 17 . 27 . 68
	Subnet Mask 255 . 255 🗸 . 254 🗸 . 0 🗸
	Default Gateway 172 . 17 . 26 . 1
	Primary DNS Server 172 . 17 . 27 . 80
	Secondary DNS Server 0 . 0 . 0
	Enable DHCP Server           Start IP Address         192         . [68]         . [0]         . [255]           End IP Address         192         . [66]         . [0]         . [255]
	Lease Time 1 Day(s) D Hour(s)
	Primary DNS Server U . U . U . U . Secondary DNS Server D . U . U . U
	Apply



Note: Make sure that a fully qualified domain name such as qatest.com.tw has

been filled in.

b. Make sure the user name with administrator access right to that domain.

3. When the following message appears after applying the settings in step

2, check the DNS IP.



When the following message appears after applying the settings in step 2, domain name, domain user name, and the password.

	Microsoft Networking
( <b>1</b> )	Microsoft Networking configured failed. Please check the domain / username / password settings.

When the following message appears after applying the settings in step 2, check the time zone settings. Make sure the difference of your time and that of AD server is less than 5 minutes. If the time difference is larger than 5 minutes, you will not be able to add the domain member.

$\cap$	Philosoft Networking
$\mathbf{\cdot}$	Microsoft Networking configured failed. Please synchronize time with Windows server.
~	

1 Upon successful adding of domain member, you can view the list for domain users and local users in User Management.

2 Go to Access Control in Network Share Management to configure the access control right of AD users for all available network shares.

·	1. Select a user	2. Settings
eate eate Multiple Users nange Password eate Private Network Share son User Groups uota Settings elete In Groups ta	QATEST+udeny QATEST+uful QATEST+uful QATEST+ufuen SUB+11mmy SUB+11kent SUB+1	Create     Create Multiple Users     Create Multiple Users     Add two or more users     Crange Password     Crange auser's password     Crange auser's password     Create auser's private network share     Asign User Groups     Specify the user groups users belong to     Quota Settings     Quota Settings     Quota Settings     Remove one or more users
etwork Share Management Network Share Management - Create - Property - Access Control - Delete	- Access Control Users or Groups Configured with Access Right to test ==-User Groups== everyrone(full access) ==-User== QATEST+test(Full access)	Users or Groups Not Configured with Access Right to test Add Set Dept a - User Groups = = Administration Dept = = -User === administration Dept = = -User === administration Dept = = -User === administration Dept = = -User === = -User == = -User = -User == = -User == = -

Using AD users to access services

To access services like FTP, Network Neighborhood, or Apple Talk with an AD user account, add **DomainName**\ before the user name when logging in.

Login As					×
<b>?</b>	Could not logir password spec	n to the FTP sa cified.	rver with the use	r name and	
	FTP Server:	172.17.27	58		
	User Name:	QATEST\TEST		-	
	Eassword:				
	After you login, you can return to this FTP server easily by adding it to your Favorites List.				
	C Login Anor	nymously	🗖 <u>S</u> ave Pas	sword	
			Login	Cancel	

Adding FNS-7000B to Windows Server 2000 NT Domain

1. Go to Microsoft Networking to enable NT Domain member and then enter the domain name such as sub1 and the user who has administrator access right for identification.

Network Settings		
TCP/IP Configuration	<ul> <li>Microsoft Networking</li> </ul>	
Microsoft Networking	Enable file service for Microsoft networking	
<ul> <li>Apple Networking</li> </ul>	Standalone Server	
<ul> <li>Linux (NFS) Service</li> </ul>	<ul> <li>NT Domain Member</li> </ul>	
<ul> <li>Web File Manager</li> </ul>	AD Domain Member	
FTP Service	Server Description	NAS Server
Network Printer Service     View Network Settings	Workgroup	NAS
	AD Server Name	AD server
	Para de Name	
	Domain Name	sub1
		Domain Username administrator
		Password
	Enable WINS server	
	Use the specified WINS server	
	WINS server IP address	
	🔲 Domain Master	
		Apply

# () Note:

a. Please notice that FNS-7000B and Windows 2000/2003 server must be in the same section or the system will show the following error message.

b. Make sure that a domain name such as sub1 has been filled in.

c. Make sure the user name with administrator access right to that domain.

	The court is a real of the state of the
	<ul> <li>Microsoft Networking configured failed. Please check the domain / username / password settings.</li> </ul>
$\sim$	

2. When the following message appears after applying the settings in step 1, check the domain name, domain user name, and the password.

$\bigcirc$	Microsoft Networking	
(!)	Microsoft Networking configured failed. Please check the domain / username / password settings.	
$\sim$		

When the following message appears after applying the settings in step 2, check the time zone settings. Make sure the difference of your time and that of AD server is less than 5 minutes. If the time difference is larger than 5 minutes, you will not be able to add the domain member.

0	Microsoft Networking
(!)	Microsoft Networking configured failed. Please synchronize time with Windows server.
<u> </u>	
	Back

1 Upon successful adding of domain member, you can view the list for domain users and local users in User Management.

2 Go to Access Control in Network Share Management to configure the access control right of domain users for all available network shares.



## Using domain users to access services

To access services like FTP, Network Neighborhood, or Apple Talk with an domain user account, add **DomainName** before the user name when logging in.



**Note:** To join AD domain again, set FNS-7000B as standalone server in Microsoft Networking section. Make sure all domain users are removed in User Management before joining FNS-7000B to AD domain.

## **Appendix C Disk Configuration Status**

Hard Disk		
English Display	Status Description	
Ready	The hard disk status is normal	
No disk	<ul> <li>No disk currently</li> <li>✓ Disk tray is not installed or there is main board error. Users can check disk tray. If there is main board error, please contact LevelOne customer service.</li> </ul>	
Invalid	<ul> <li>Indicates the disk does not have a record on FNS-7000B</li> <li>✓ The disk is used on FNS-7000B the first time, or the disk on the same FNS-7000B model is used. Users can re-configure disk volume.</li> </ul>	
R/W error	Disk fails ✓ When R/W error is shown, users should back up data immediately and replace the failed disk.	

### Disk Configuration/ RAID Configuration

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English Display	Status Description
Initializing	Initializing disk
Formatting	Formatting disk
Creating	Creating RAID configuration
Removing	Removing RAID configuration
Rebuilding	Rebuilding RAID configuration
Checking	Error checking on hard disk or disk configuration in process ✓ FNS-7000B will check disk automatically if it is shut down improperly

## Disk Configuration/ RAID Configuration

English Display	Status Description
Ready	The status of current disk or disk configuration is normal
Unmounted	Hard disk is not installed or hard disk configuration is not configured
Not Active	RAID configuration is damaged and cannot be enabled <sup>\Degreen When this message is shown, users should back up disk data immediately and replace the failed disk.</sup>
Uninitialized	Initialization fails Ve Single disk does not support hot swap. If the hard disk is unplugged when FNS-7000B is turning on, disk configuration will be damaged and will lead to data loss.

In degraded mode

A disk of RAID 1 or RAID 5 configuration is unplugged or fails. RAID data protection mechanism fails. In this situation, users should back up disk data immediately and replace the failed disk to rebuild RAID configuration.



1 When R/W error is displayed for hard disk status, or "Not active" or "In degraded mode" is displayed for RAID configuration, please replace the hard disk immediately to ensure RAID data protection can work properly. LevelOne is not responsible for any data loss caused by delay in replacing failed disks in a RAID configuration by users intentionally or unintentionally.

2 Digital Data Communication Co., Ltd. guarantees that all FNS-7000B (FNS7000B) released have passed strict and complete QA test and can operate properly in normal condition. LevelOne offers conditional and limited maintenance for FNS-7000B within warranty period. However, LevelOne disclaims the responsibility for any data loss or damage, or business loss of users. In no event shall the liability of LevelOne exceed the price paid for the product from direct, indirect, special, incidental, or consequential software, or its documentation.

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