



USER GUIDE

**SMCNAS04/
SMCNAS24**

**TigerStore™
SMB Network Attached Storage Server**

SMCNAS04/SMCNAS24

User's Guide

Revision 1.8
February 2008

TRADEMARKS

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NOTE

the information in this manual is subject to change without notice.

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<Important Notice>

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This warranty is void if:

- The product was operated/stored in abnormal use or maintenance conditions;
- The product is repaired, modified or altered

- The product was subjected to abuse, neglect, electrical fault, improper packaging, accident or acts of nature;
- The product was installed improperly;
- The serial number of the product is defaced or missing;

For storage products: Under various circumstances, such as damage from extreme conditions like floods, power fluctuations, damage caused during the installation of the drive, damage caused by improper or improperly used packaging, or physical misuse or abuse, the data on a disk drive may be inaccessible through normal operations. However, the data may be recoverable through extraordinary means offered through a specialized data recovery service.

SMC Networks, Inc. does not perform any data recovery services. If you are unable to access data on your drive due to damage such as that mentioned above, you may wish to consider contacting an independent data recovery service. The disk drives used in this product are covered under the original manufacturer's warranty,

SMC Networks, Inc. cannot be made liable for any damages or loss of data as a result of improper use or damage to the disk drives. The disk drives used in this product are covered under the original manufacturer's warranty.

Safety Information

- **WARNING: Before connecting to power, set the Voltage Switch on the rear of your system to the voltage matching your area – voltage rating 100~120 / 200~240 Vac. Device could be damaged when the Voltage Switch is at the wrong position.**
- **Maximum operating ambient temperature 40 °C degree**

Important Notes

- When ejecting the USB device from your NAS system, make sure to disconnect from the Samba connection first.
- Your SMCNAS04/SMCNAS24 does not support any USB hub connected to the USB ports.
- When installing hard disk drives to your SMCANS04/SMCNAS24 SMC suggests using the same vendor and the same size hard disk.

Model Information

Before accessing SMCNAS04/SMCNAS24, please install the JAVA Runtime Environment (JRE) 6 first on your computer like shown in the QIG or chapter 3 of this manual, otherwise, the NASDiscovery.html tool will not work.

You can also download it directly by, following the link to download it thru your computer, <http://java.sun.com/javase/downloads/index.jsp>

- **SMCNAS04**

NAS system without Hard Disk Drives Installed.

Note: Please follow SMCNAS04/SMCNAS24 User's Guide to do software/hardware installations and start SMCNAS04 storage system management.

- **SMCNAS24**

NAS system with 4 Hard Disk Drives Installed with RAID configuration 5.

Note: Please skip software/hardware installations and go directly to Storage System Management, or if you wish to change the preferred RAID configuration follow the steps on the section "System Power-on Without Hard Disk Drive."

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Chapter 1 Introduction

Your SMCNAS04/SMCNAS24 is a great storage solution for small and medium business and home network environments. With this high-speed networked storage, network users can easily access and share music, pictures, and video files. Also, it has a program for discovering the storage system automatic assigned IP address.

Your SMCNAS04/SMCNAS24 can accommodate up to four hard disks with standard single (if you only have one disk), RAID 0, 1, 4, 5 and JBOD in BIG configurations, providing up to 3 TB (terabytes) of shared network storage. Supporting industry-standard protocols, you can easily add your storage device to your existing network. In addition, network management and security are greatly simplified through the Web-based User Interface (UI).

Additional features include:

- RAID Mode
- RAID Degrad
- RAID Rebuild
- Quota Management
- HW (hardware) Health Monitor
- UPS (uninterruptible power supply)
- Reset to Factory Default Setting
- Backup
- Event Log
- Media Server
- Software Shutdown using Storage System Management
- Can function as a FTP server and printer server
- DHCP client support

1.1 Package Contents

Includes the following:

- SMCNAS04/SMCNAS24 Storage System with Key
- Power Cord
- RJ-45 Ethernet Cable
- Utility Disc
- Quick Start Guide

1.2 Specifications

| NOTE: Specifications are subject to change without notice.

Hardware

Cabinet Form Factor

Small Tower

Processor

LSI NAS401

System Memory

128 MB of DDR2 SDRAM

Flash Memory

8 MB

Hard Disk Drive Bay/Type

Up to four 3.5-inch SATA (Serial ATA)

Storage Capacity

Provides greater than 2 TB

USB-UPS Support

HID power device standard

Network

Automatic MDIX Ethernet Port
(10/100/1000 Mbps)

Power Supply

100~127/200~240 V 50/60 Hz 128 W

Dimension

(H)230 x (W)187 x (D)288 mm

Weight

6.3 kg (without HDD installed)

Environment

- Operating temperature:
0 °C (32 °F) to 40 °C (104 °F)
- Storage relative humidity:
5 % to 95 % non-condensing

Software

Network Client Support

- Microsoft Windows
- Mac (10.4.x)
- UNIX/Linux

Network Protocol

- TCP/IP
- HTTP
- FTP
- SMB/CIFS
- NFS

File Backup (under Microsoft Windows only)

- USB storage device to
SMCNAS04/SMCNAS24
- PC to SMCNAS04/SMCNAS24 (and vice
versa)

Hardware Monitor

Temperature Sensor

Disk Configuration

Single, RAID 0/1/4/5, JBOD in BIG

Application for NAS Management

- Data Sharing, Protection
- Data Backup and Recovery (optional)
- Web User Interface


Others

- English language support
- Real Time Clock (RTC)
- Programmable system clock
- Network time protocol support
- Software power off
- Firmware upgradeable
- FTP server and printer server support
- Event logs and email alerts
- BitTorrent P2P protocol support
- Daylight saving

1.3 System View

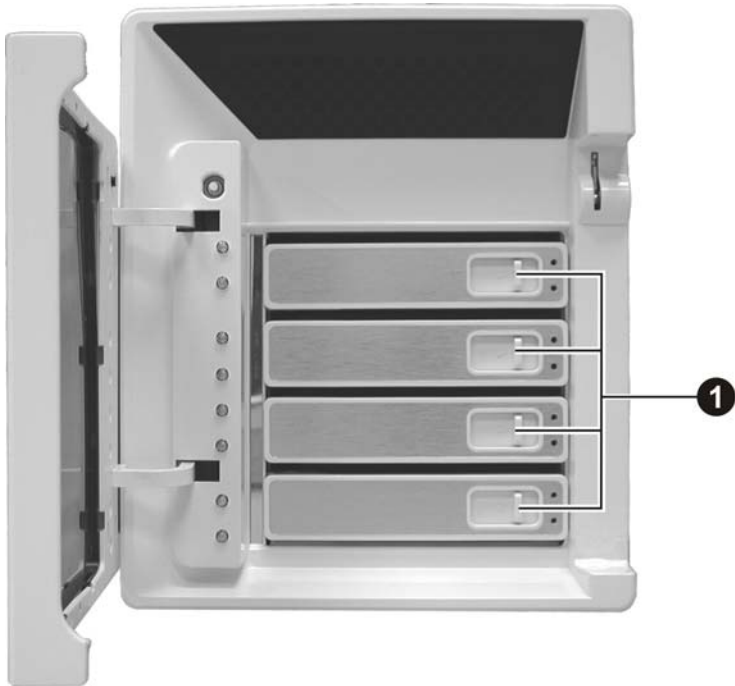
Front Components



Ref	Component	Description
①	Power Button 	Turns the power on and off.
②	Power Indicator	Shows the current power status.
	POWER ON	Glows blue when the power is on.
	STANDBY	Glows red when the system is in Standby mode (power cord is connected to an electrical outlet but storage system is at Standby state).

Ref	Component	Description
③	Network Indicator	Shows the current network status.
		Glows green at 10/100 Mbps or blue at 1000 Mbps when system is connected to the network.
		Blinks green or blue to indicate system is trying to establish a network connection.
④	RAID Indicator	Shows the current RAID status.
		RAID
		Glows blue to indicate RAID function is implemented.
		Blinks blue to indicate RAID function is rebuilding the hard disk drive.
	DIAG	Glows red to indicate RAID function is inactive or malfunctioning.
⑤	Hard Disk Drive Compartment	Inside are four hard disk drive slots.
⑥	Disk Information Indicator	Shows the current hard disk drive status.
		STATUS
		Glows blue to indicate hard disk drive is at Standby mode.
		Blinks blue to indicate hard disk drive read/write function.
	DIAG	Glows red to indicate hard disk drive is inactive or malfunctioning.

Front Components (Compartment Door Open)



Ref	Component	Description
1	Hard Disk Tray Door Handle	Opens the hard disk tray.


Right-Side Components



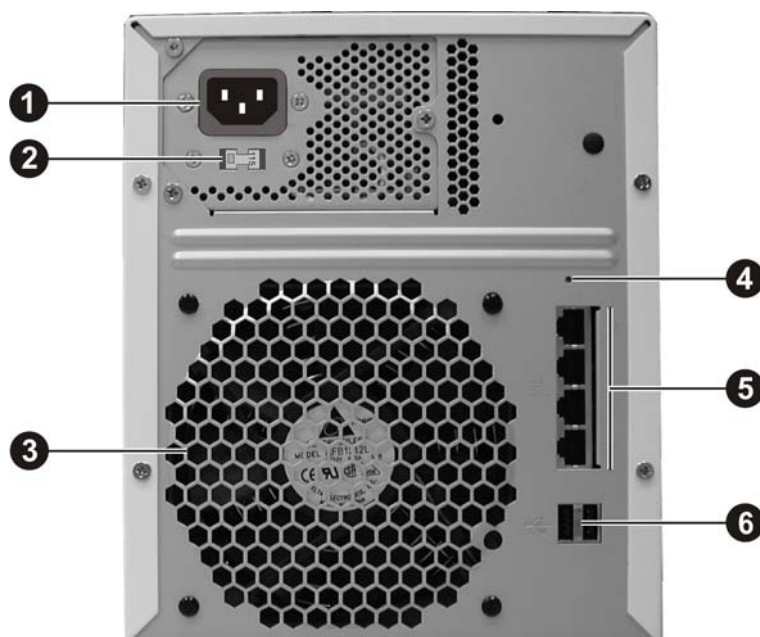
Ref	Component	Description
1	Door Lock	Locks the hard disk drive compartment door for security.



Left-Side Components



Ref	Component	Description
①	USB Port 	Connects a USB device, such as a USB disk, printer, or USB-UPS.

Rear Components



Ref	Component	Description
①	Power Connector	Connects to the power cord.
②	Voltage Switch	Select the voltage matching your local standard setting.
③	Ventilation Opening	Maintain proper operating temperature. Do not cover or block the openings.
④	Reset Switch	Allows you to reset the system to the factory default username, password, and DHCP.
⑤	RJ-45 Connectors 0/1/2/3 	Connects the LAN cable to any one of the four connectors.
⑥	USB Ports 	Connect USB devices, such as a USB disk, printer, and/or USB-UPS.

Chapter 2 Setting Up

Step 1. Install the Hard Disks

1. Insert the key and turn clockwise (❶) to unlock and open the door (❷).



2. Slide the latch toward the right to release the handle.



NOTE: Install the first hard disk on the lowest level tray, the second hard disk on the second lowest level tray, and so forth.

3. Pull the handle to slide the hard disk tray forward. Then pull the hard disk tray out of the device.



4. Unfasten two screws from each side of the hard disk tray and remove the metal bracket.



NOTE: Store the metal bracket in a safe place for future use.

5. Fit the hard disk into the tray with the connectors pointing toward the rear. Then align and fasten four screws to secure the hard disk in place.




6. Keeping the handle in its full-open state, slide the hard disk tray all the way into the device until the hinge of the handle is inside the device. Then, close the handle. The latch should click into place.

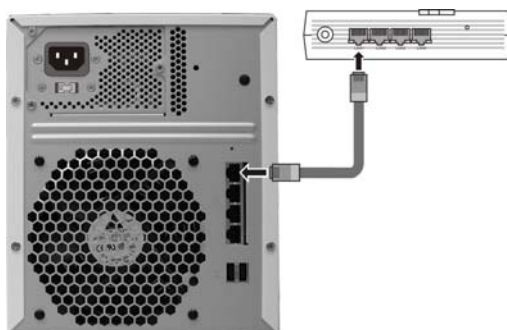


7. Follow the same procedure for installing other hard disk(s) in the other compartment(s).

Step 2. Connect to the Network

1. Make sure that the computer is connected to a router.

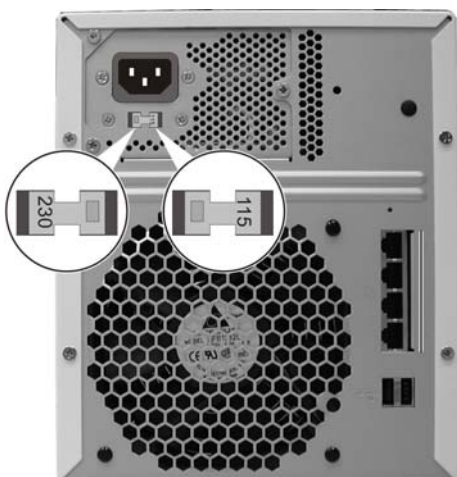
2. Connect one end of the Ethernet cable to any of the four network connector () on the back of your storage system and the other end to a router.



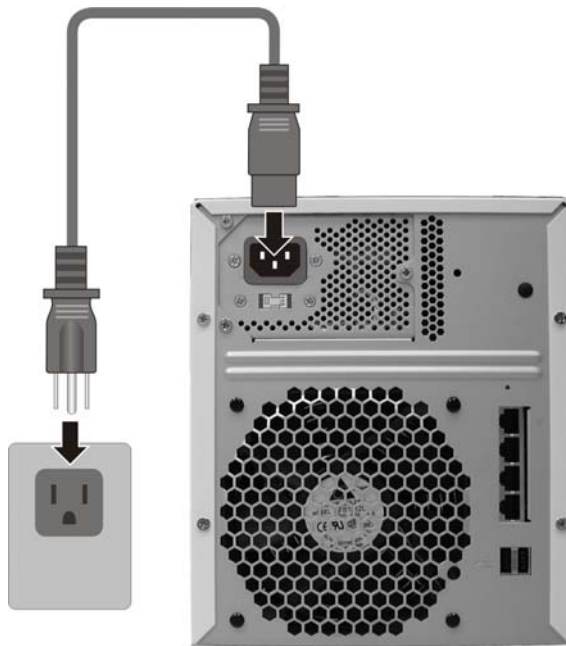
Or you can connect both your computer and storage system (NAS) to one switch, and this switch is connected to the network which has a DHCP server.

Step 3. Connect to Power

1. Make sure that your storage system is turned off.
2. Before connecting to power, set the Voltage Switch to the voltage matching your local standard setting.



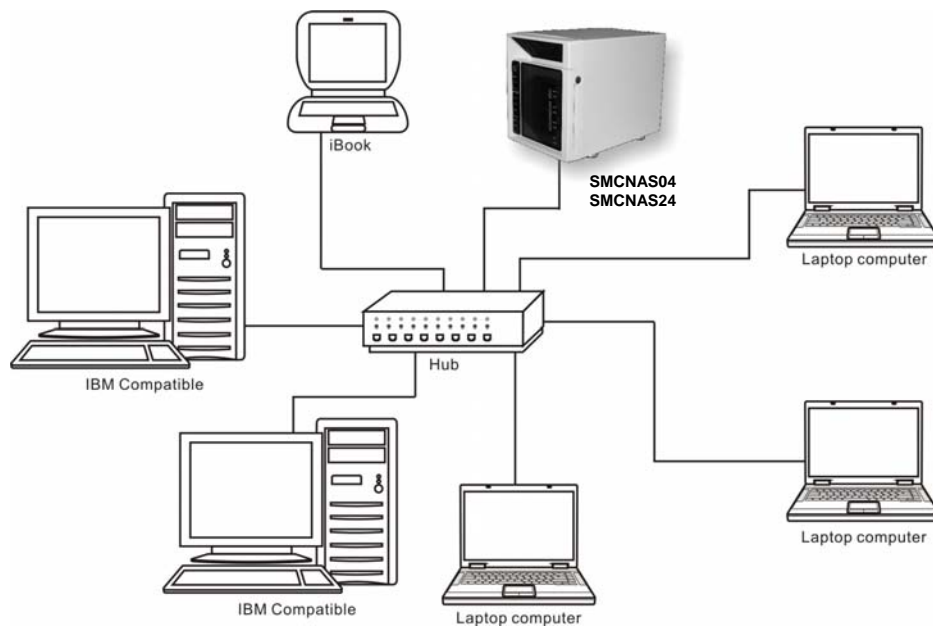
3. Connect one end of the power cord to your storage system and the other end to a standard electrical outlet.



Step 4. Configure Your Storage System

See the next chapter for the software configuration instructions.

Chapter 3 Configuring Your Storage System



An SMCNAS04/SMCNAS24 network consists of an NAS server and several clients connected via network links.

3.1 Installing the Storage System Management

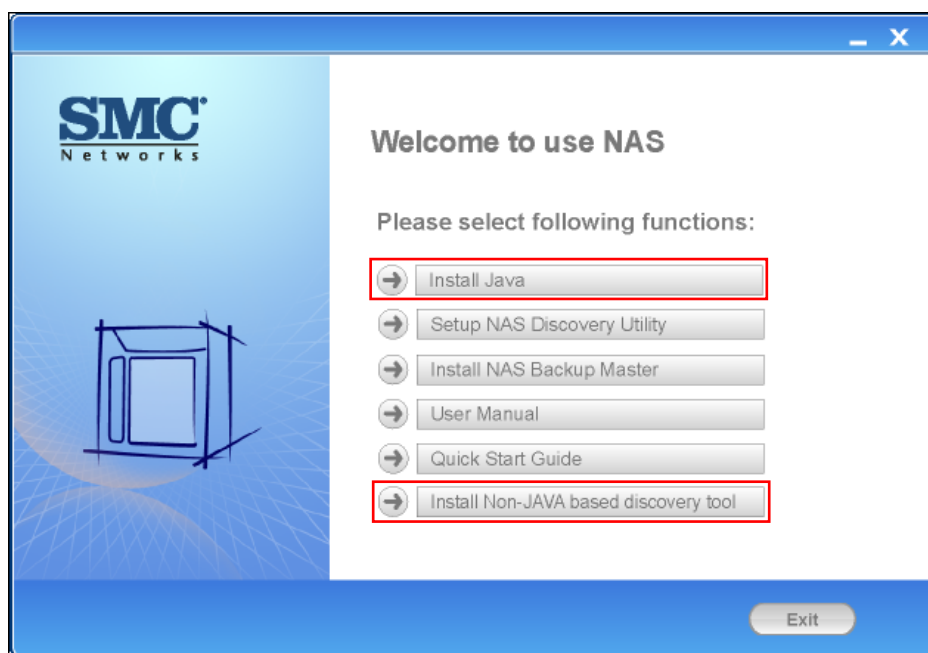
You need to install **Storage System Management** before you can perform any system configurations.

IMPORTANT:

- If you are using the hard disk drive that has been installed with NAS middleware before, then follow the steps on the section "System Power-on Without Hard Disk Drive."
- If you are using full new hard disk drives that have never installed NAS middleware before, then follow the steps on the section "System Power-on With Full New Hard Disk Drives."

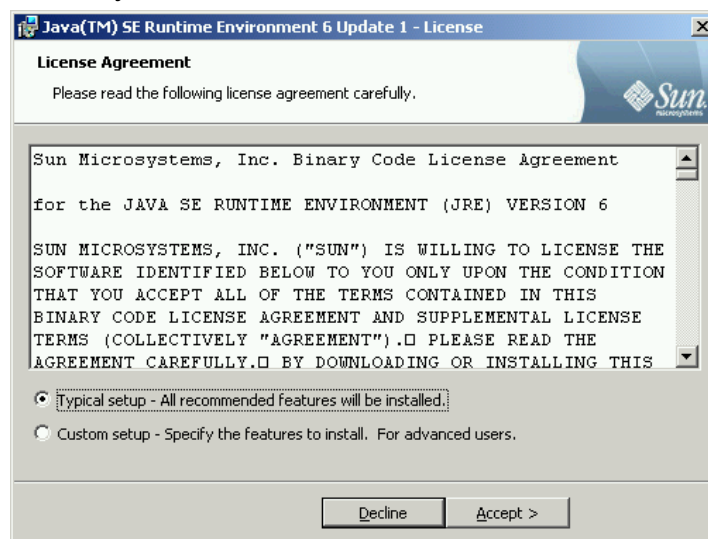
For Windows PC

1. Insert the included utility disc into your computer and the following screen appears (if not, click on the file **AutoRun.exe** on the utility disc).

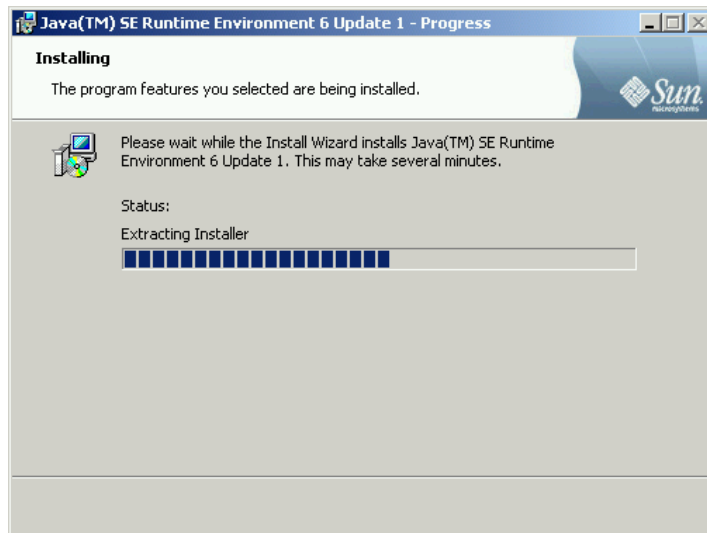


2. Click **Install Java** to install JAVA script on your computer and the following screen appears. (Please make sure your computer has internet connection to be able to access the online installation of JAVA.)

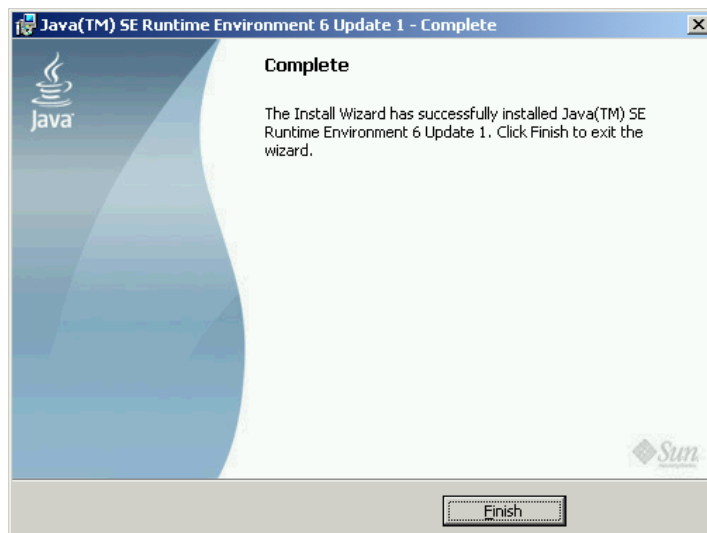
NOTE: You can also click **Install Non-JAVA based discovery tool** to install non-JAVA based discovery tool.



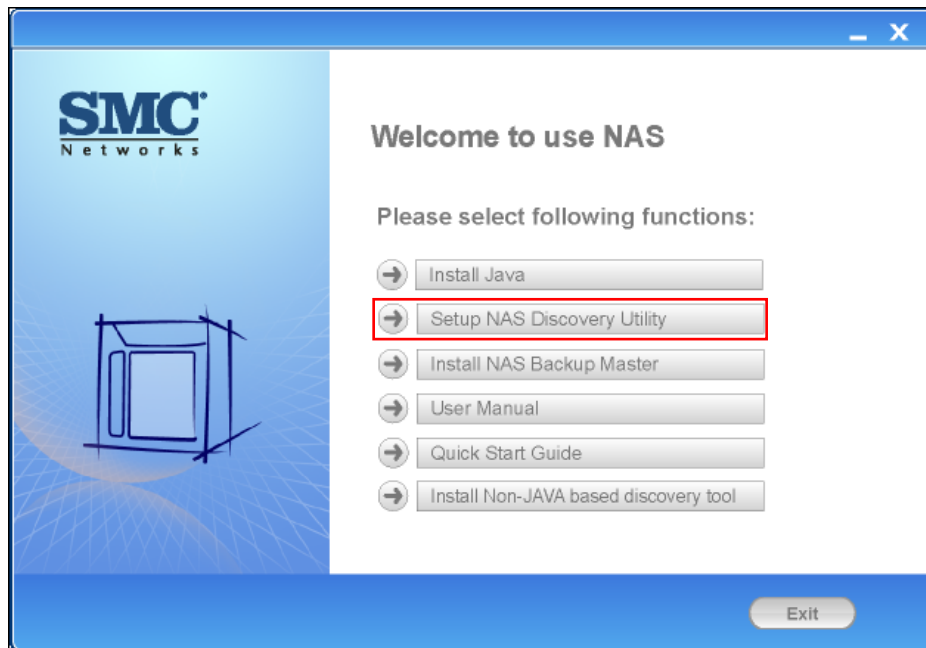
3. After reading the license agreement, click **Accept** and the following screen appears showing the progress of installation (this may take a couple of minutes).



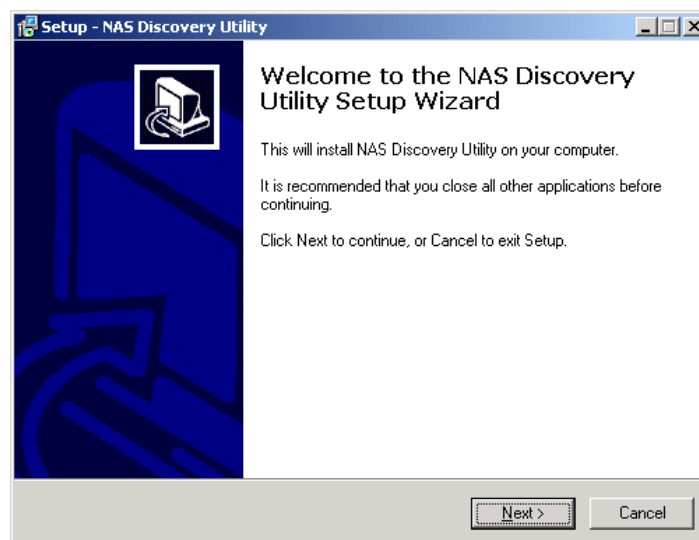
4. Click **Finish** when the following screen appears to exit installation.



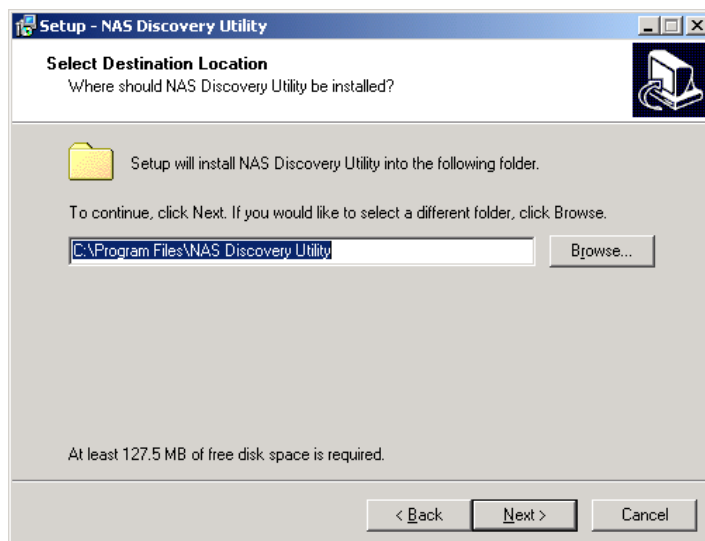
5. Click Setup NAS Discovery Utility.



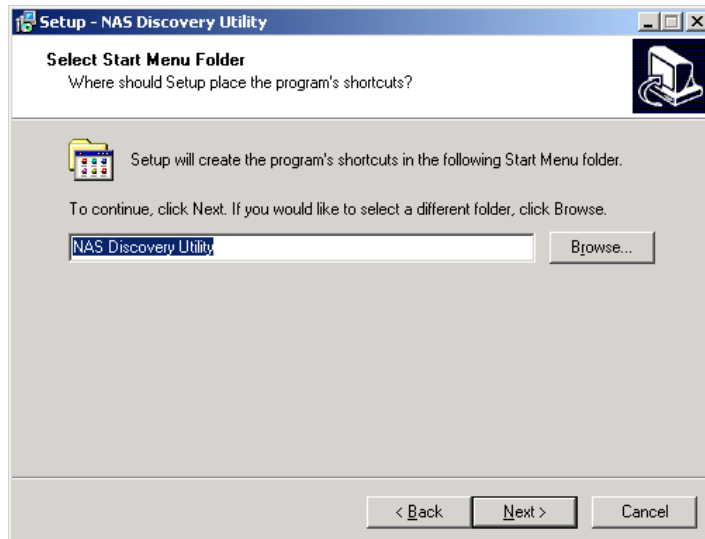
6. The following screen appears. Click Next.



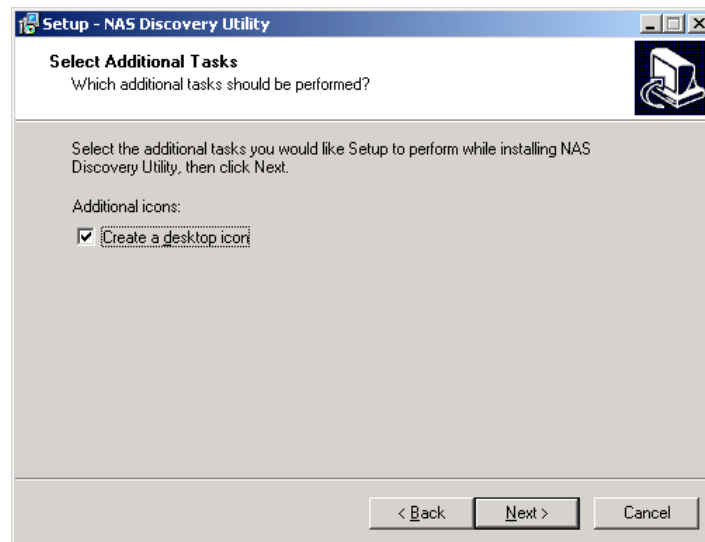
7. Select the destination to install the NAS Discovery Utility and click Next.



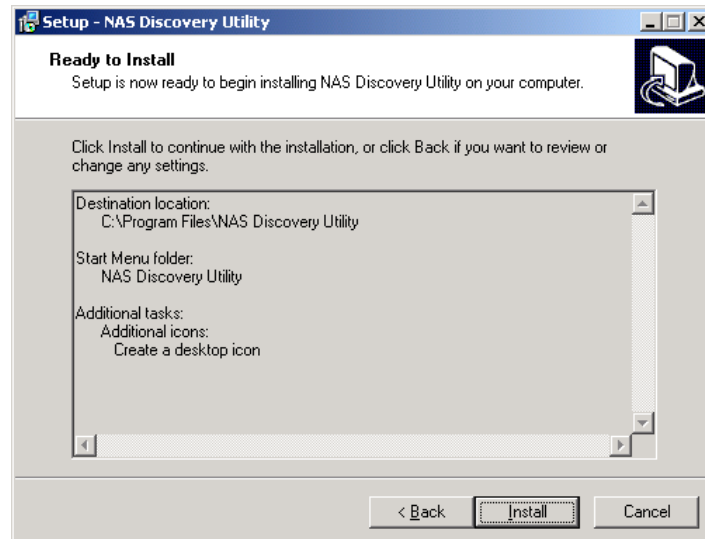
8. The Select Start Menu Folder screen appears, click Next.



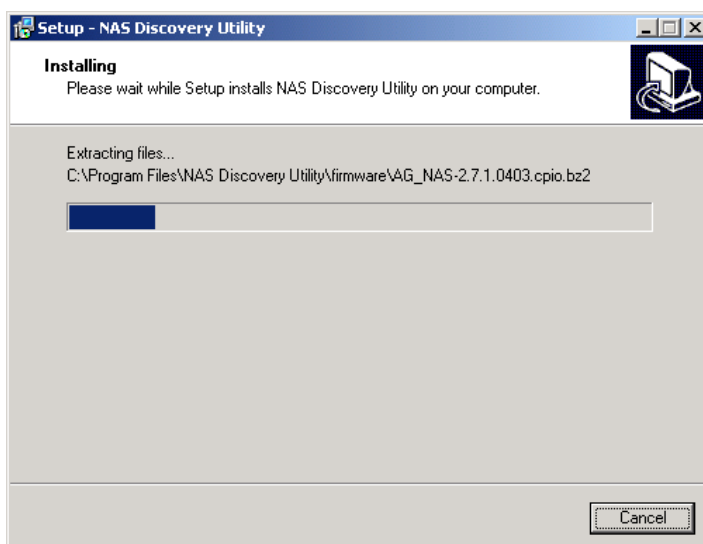
9. Click the Create a desktop icon checkbox to enable it and click Next.



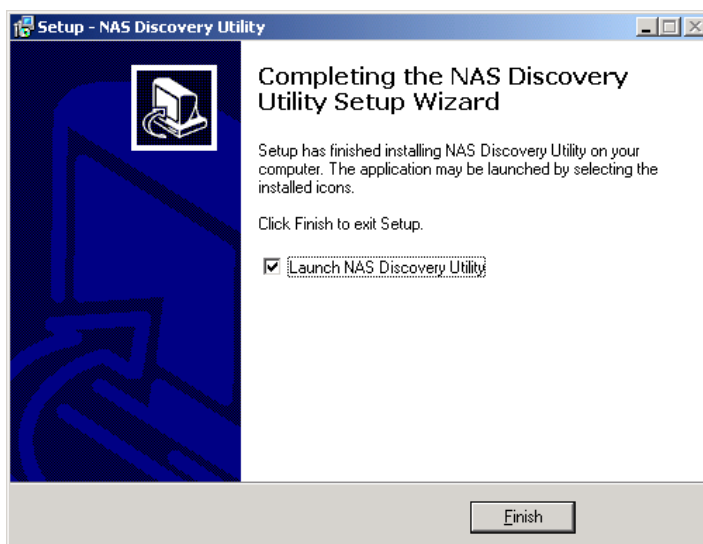
10. When the Ready to Install screen appears, click Install.



11. The progress of installation will be shown onscreen.

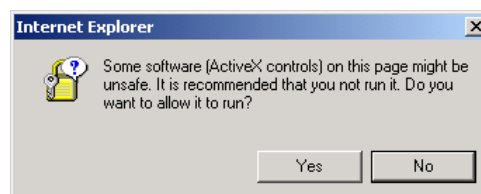


12. When the following screen appears, click **Finish** to exit the installation process.



JAVA-based

13. Click the **NAS Discovery Utility** shortcut icon on your desktop or you can launch the NAS Discovery Utility by clicking **Start → Programs → NAS Discovery Utility → NAS Discovery Utility**. Click Yes when the following screen appears to allow ActiveX controls.



NOTE: If the following screen appears, click **Run** to allow the digital signature verification.



14. The following screen appears.



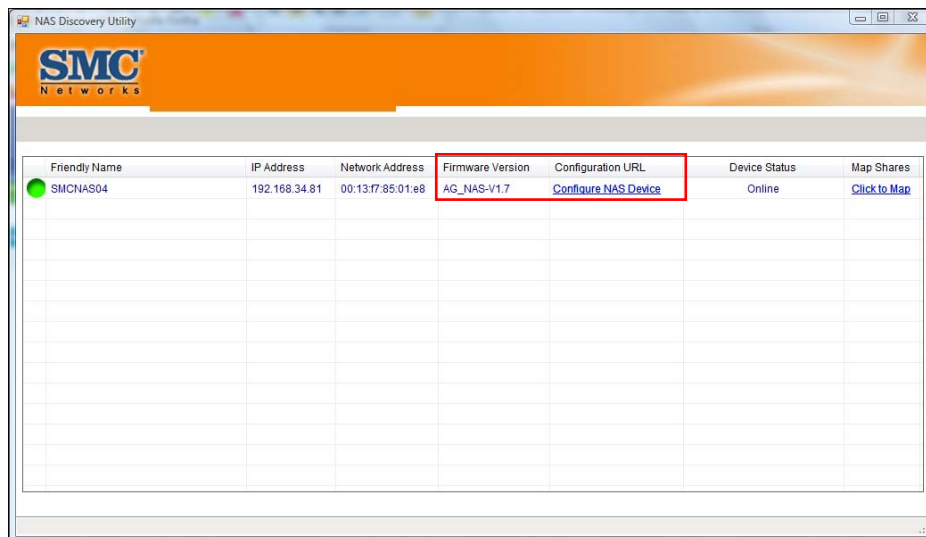
Num	FriendlyName	IP Address	MAC Address	Software Version	Configuration URL	Status	MAP Shares
1	SMCNAS04	192.168.34.81	00:13:77:85:01:e8	AG_NAS-V1.7	Click to Configure NAS	Available	Click to Map

Non-JAVA based



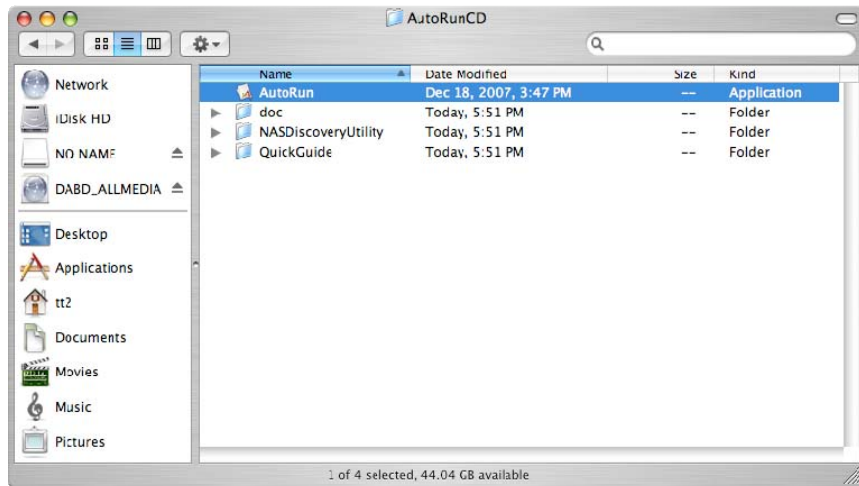
13. Click the **NAS Discovery Utility** shortcut icon on your desktop or you can launch the NAS Discovery Utility by clicking **Start → Programs → LSI Corporation → NAS Discovery Utility**.

14. The following screen appears.

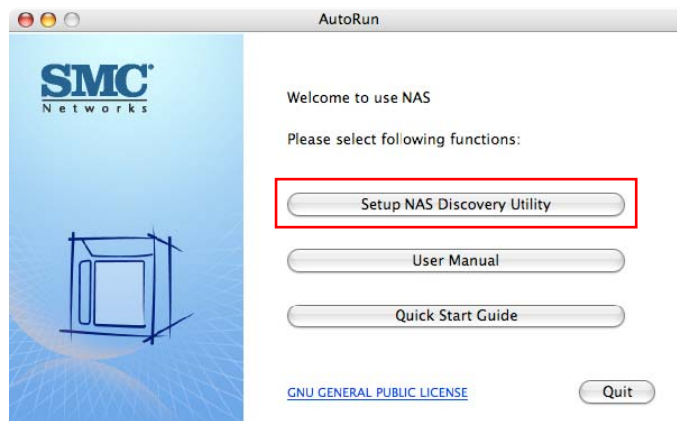


For Apple Mac OS X (10.4.11 or above)

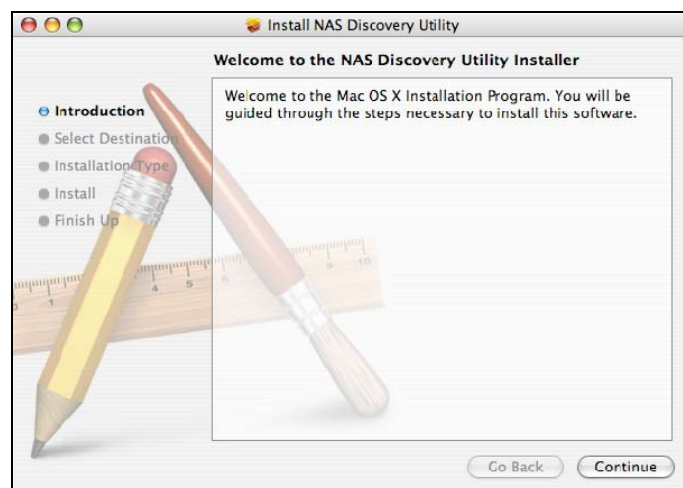
1. Insert the included utility disc into your computer and open the MAC **AutoRun** folder, and then click the **AutoRun.app** program.



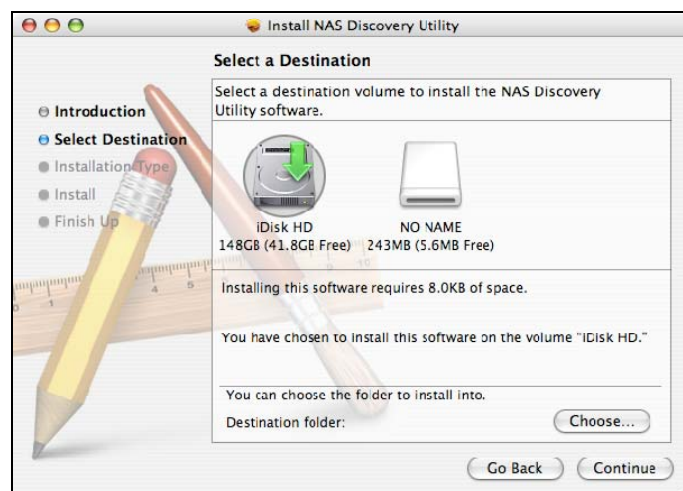
2. The following screen appears. Click **Setup NAS Discovery Utility**.



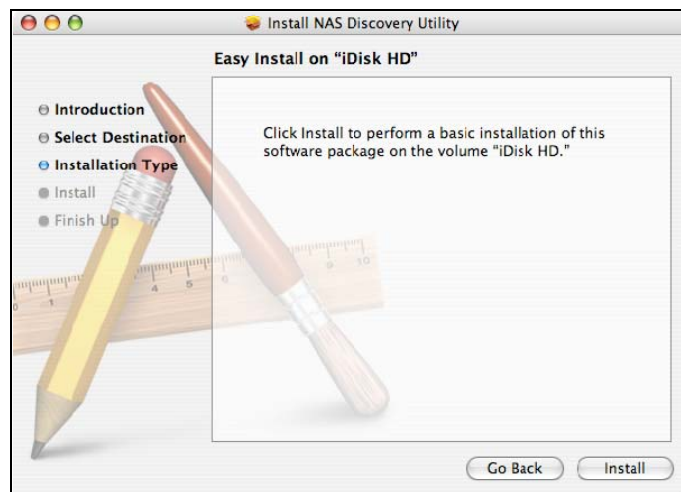
3. The Welcome to the NAS Discovery Utility Installer screen appears. Click Continue.



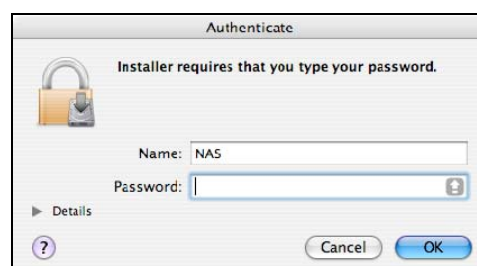
4. Select the destination to install the NAS Discovery Utility and click Continue.



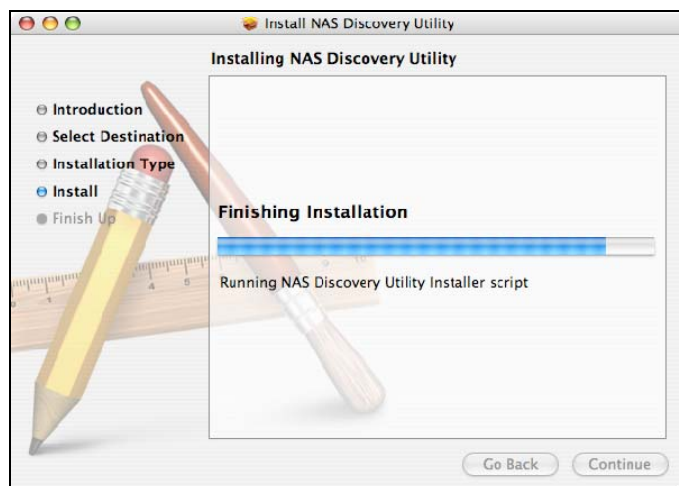
5. The Easy Install on "iDisk HD" screen appears, click Install.



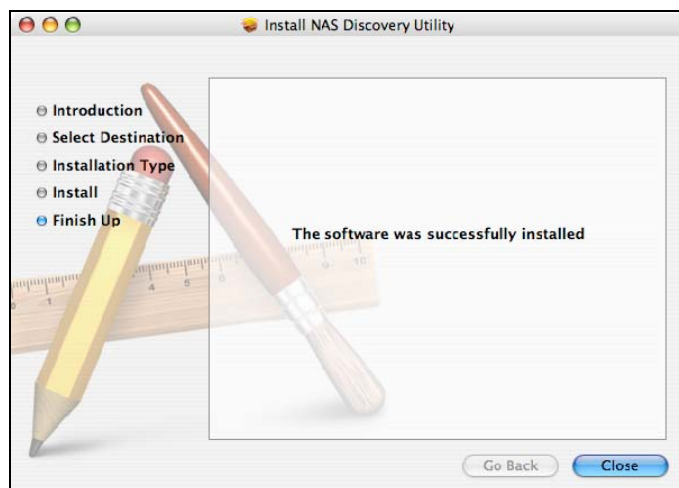
6. The installer requires that you type the password of your Mac OS X Administrator account.



7. The Installing NAS Discovery Utility screen appears and progress of installation will be shown.



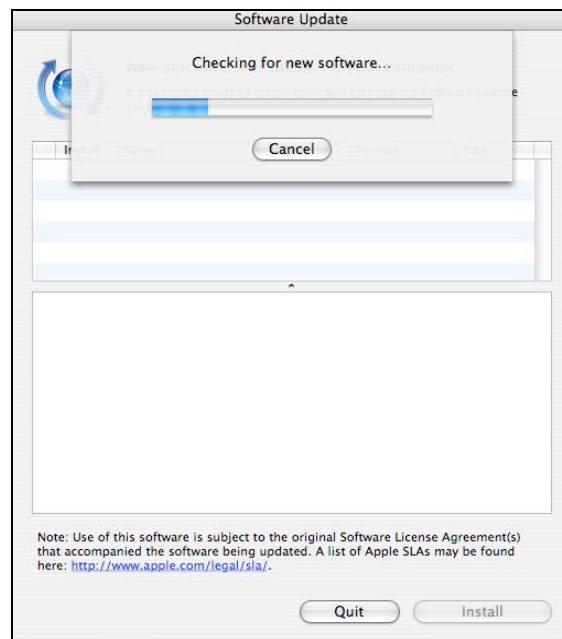
8. When the following screen appears, click Close to exit the installation process.



9. To get the latest font library, click **MAC**  → **Software Update** to update to the latest MAC Operation System version.



10. The system would start to check for software update.




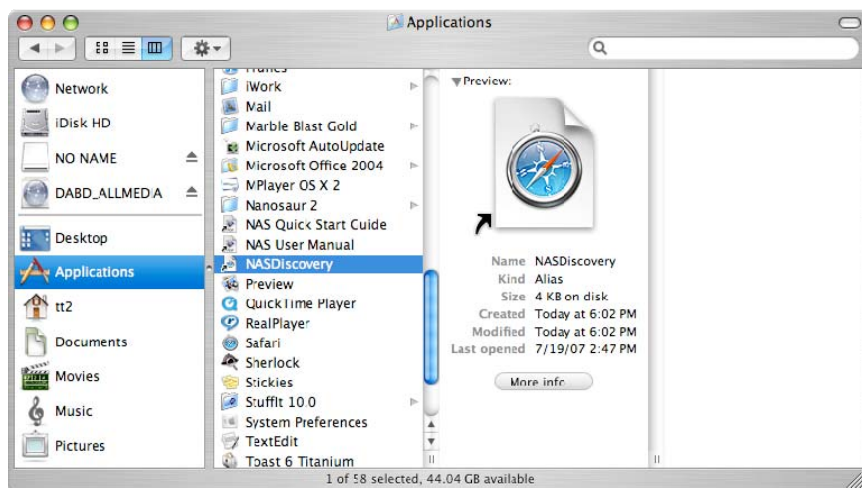
11. To set the Safari Cookies, click Safari → Preferences.



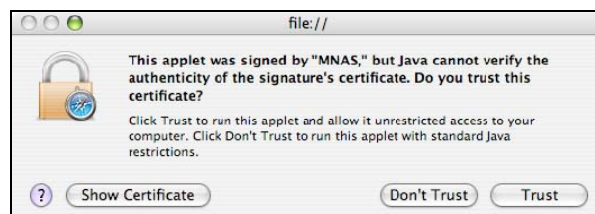
Then Security to accept Cookies “Only from sites you navigate to”.



12. Click the NAS Discovery Utility icon  **NASDiscovery** in the hard drive installation directory or launch NAS Discovery Utility by clicking Applications → NAS Discovery Utility.



13. Click Trust to allow digital signature verification if the following screen appears.



14. The following screen appears.



Num	FriendlyName	IP Address	MAC Address	Software Version	Configuration URL	Status	MAP Shares
1	SMCNAS04	192.168.34.81	00:13:77:85:01:e8	AG_NAS-V1.7	Click to Configure NAS	Available	Click to Map

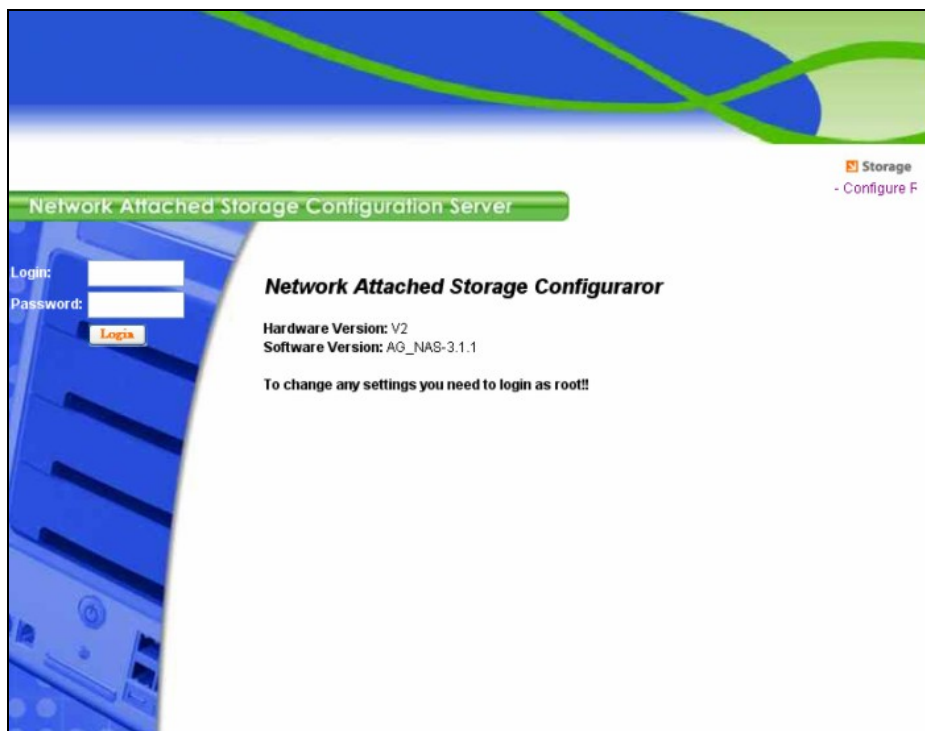
NOTE:

- The NAS Discovery Utility must use the Safari web browser when system is using the Mac OS X (10.4.11 or above).
- Use Mozilla Firefox to install SMCNAS and type in the SMCNAS IP in the Firefox address field.
- When using the Safari web browser to log in to web management, make sure to have the correct setting: **Safari → Preferences → Security → Accept Cookies → Only from sites you navigate to.**
When using Mozilla Firefox to log in to web management type in the NASIP at the Firefox web browser.

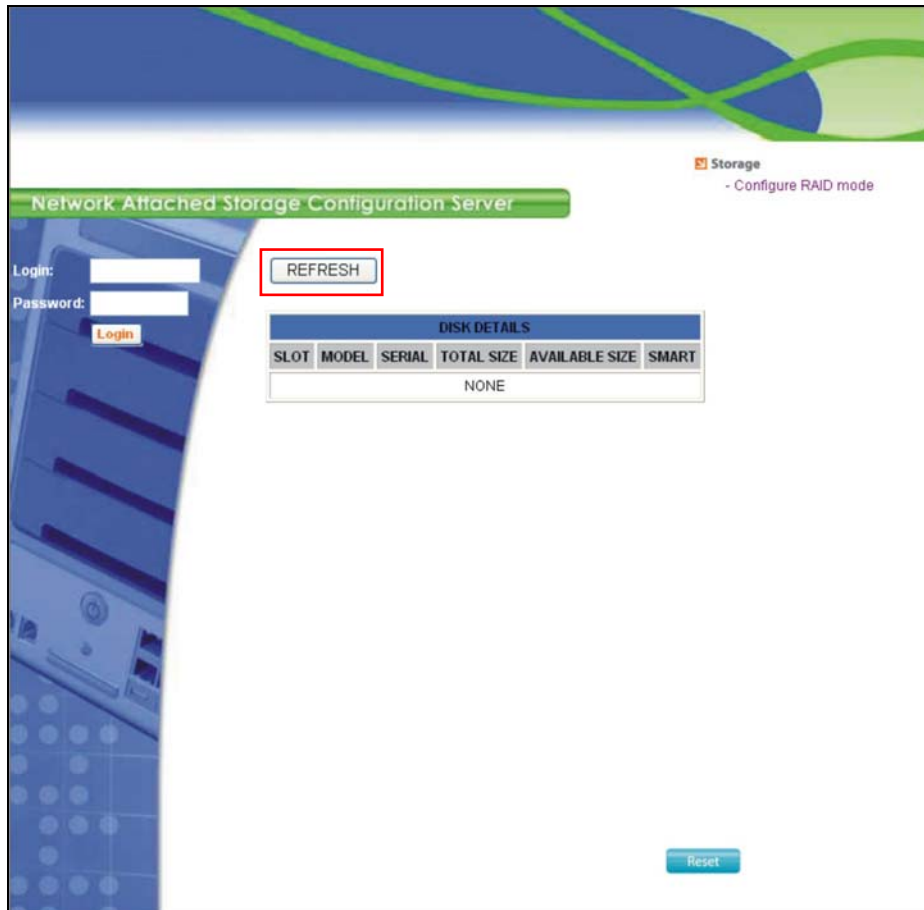
System Power-on Without Hard Disk Drive

IMPORTANT: If you are using the hard disk drive that has been installed with NAS middleware before, then follow the steps on this section. You can also Reset your System to default by following this section.

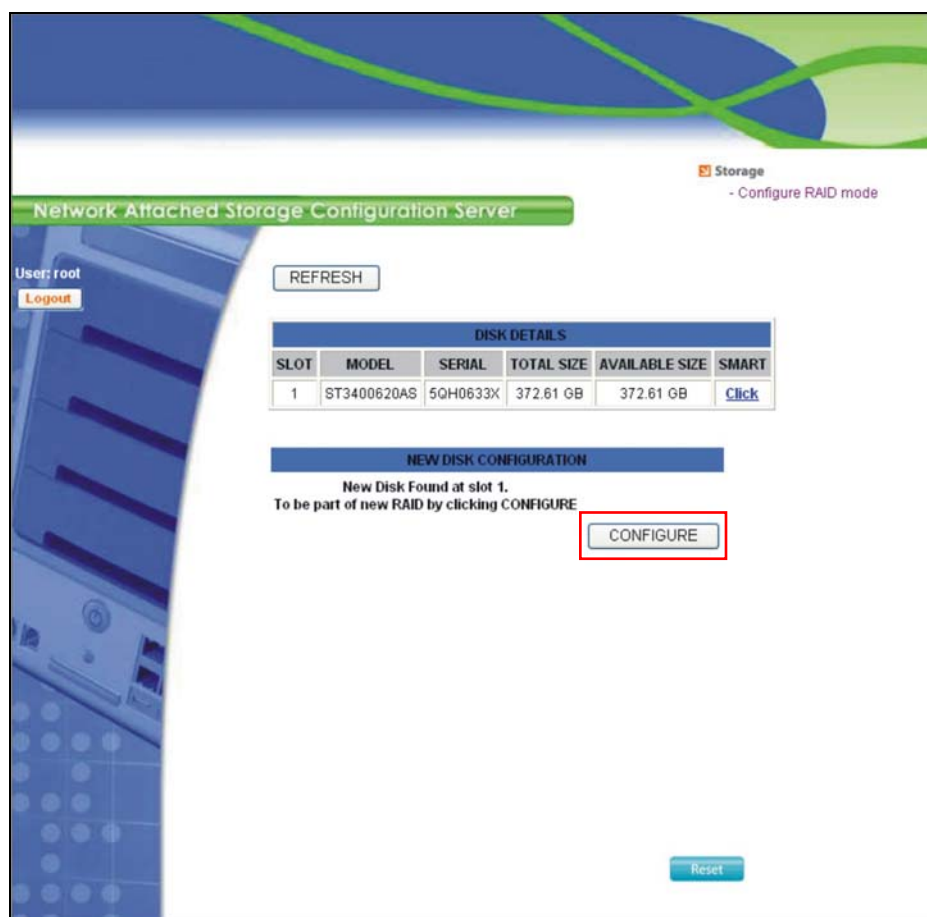
15. When the discovery tool has discovered the NAS, it will show “Zero-Disk Mode” on the **Firmware Version** column. Click “Configure RAID Profile” on the **Configuration URL** column.
16. The following screen appears. Log in by “**root**” and no password is required.



17. After logging in the following screen appears. Install the hard disk drive into the lowest level tray (see chapter 2 portion on proper hard disk installation) and after around 30 seconds, click **REFRESH** (if no hard disk drive appears, click **REFRESH** again.)



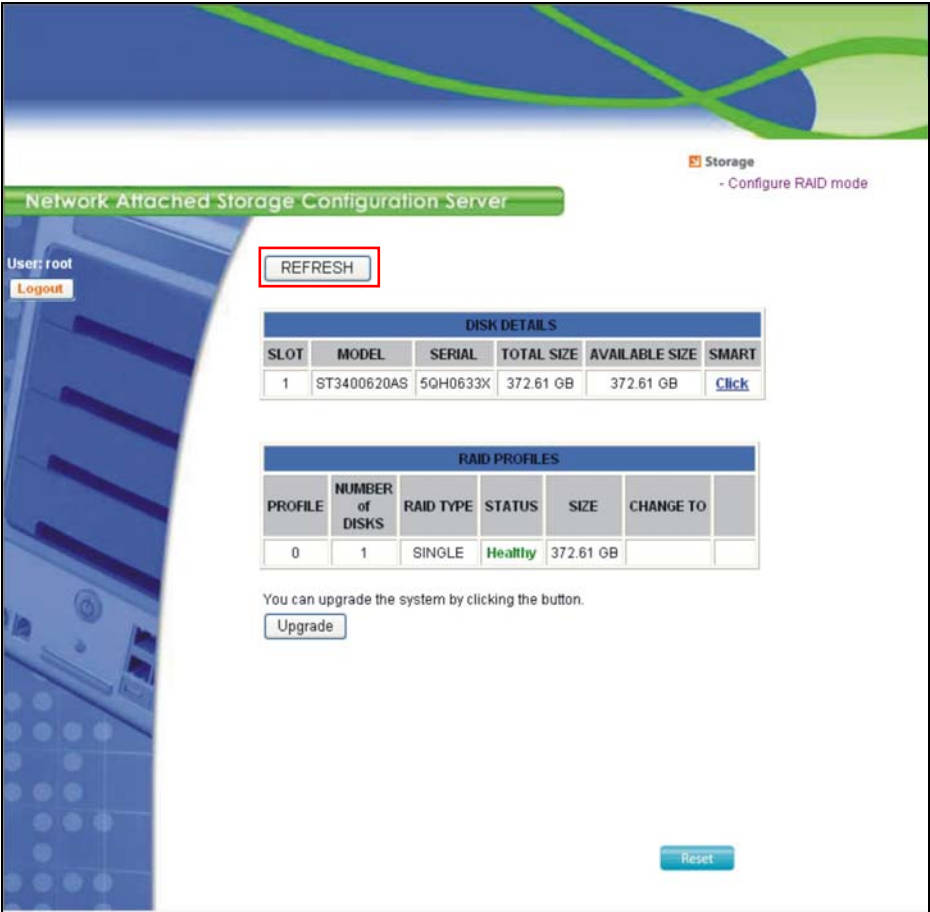
18. When the hard disk drive appears on screen, click CONFIGURE.



19. The following screen appears. Click OK.

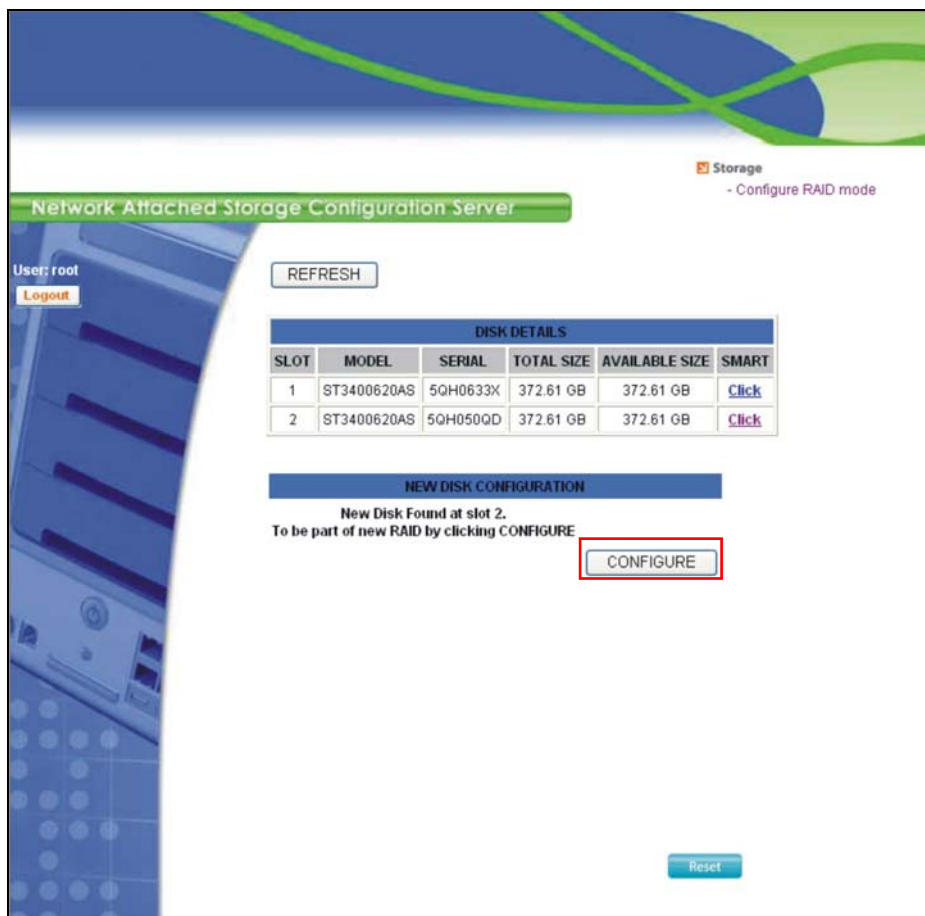


20. The following screen appears. Install another hard disk drive into the second lowest level tray and after around 30 seconds, click REFRESH (if no hard disk drive appears, click REFRESH again.)



21. The following screen appears, then click **Configure**.

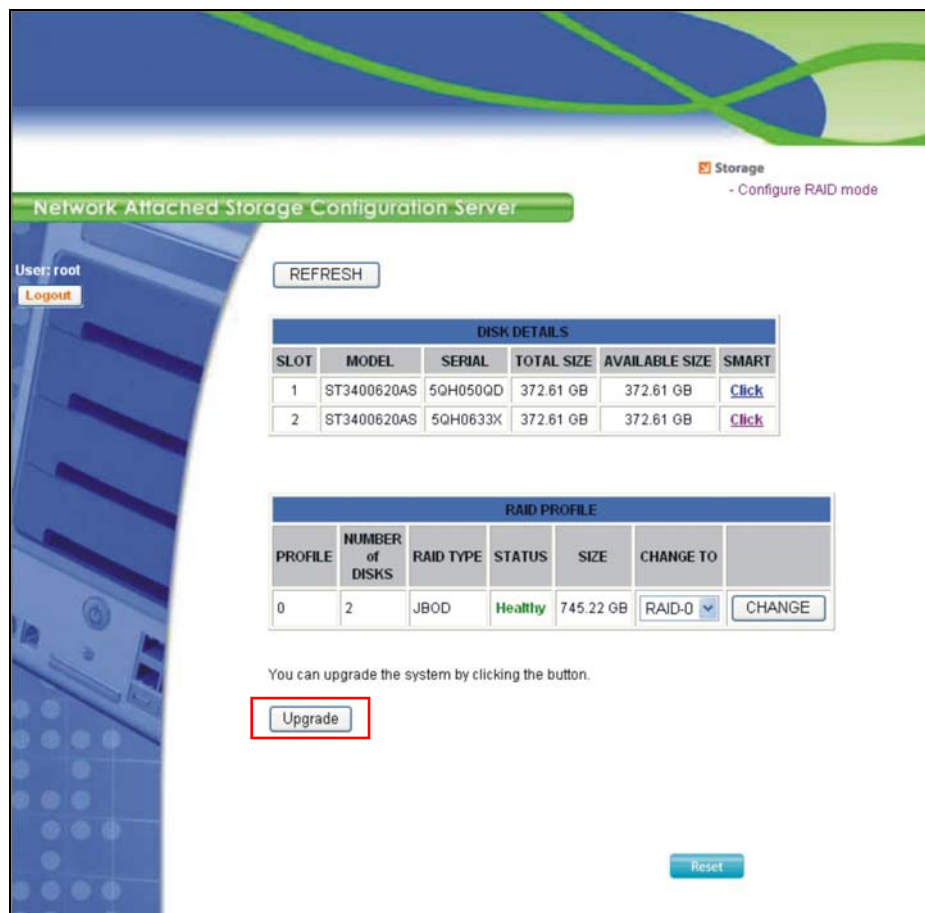
NOTE: If you want to install more hard disk drive(s) (not new hard disk drive but hard disk drives that installed NAS firmware before) into the other slots, perform steps 20 and 21 again, otherwise go directly to step 22 after you click **Configure**.



22. The following screen appears.

NOTE:

- Whenever you install a hard disk drive, you can use the default RAID mode (if one hard disk drive only default is Single, if two hard disk drives it will be JBOD, all 4 hard drives will be RAID 5). Or change the RAID mode by clicking **CHANGE**.
- If you did not click **REFRESH** and **CONFIGURE** each time you insert a hard disk drive, it will have the wrong RAID mode and the inserted disk might be invalid.



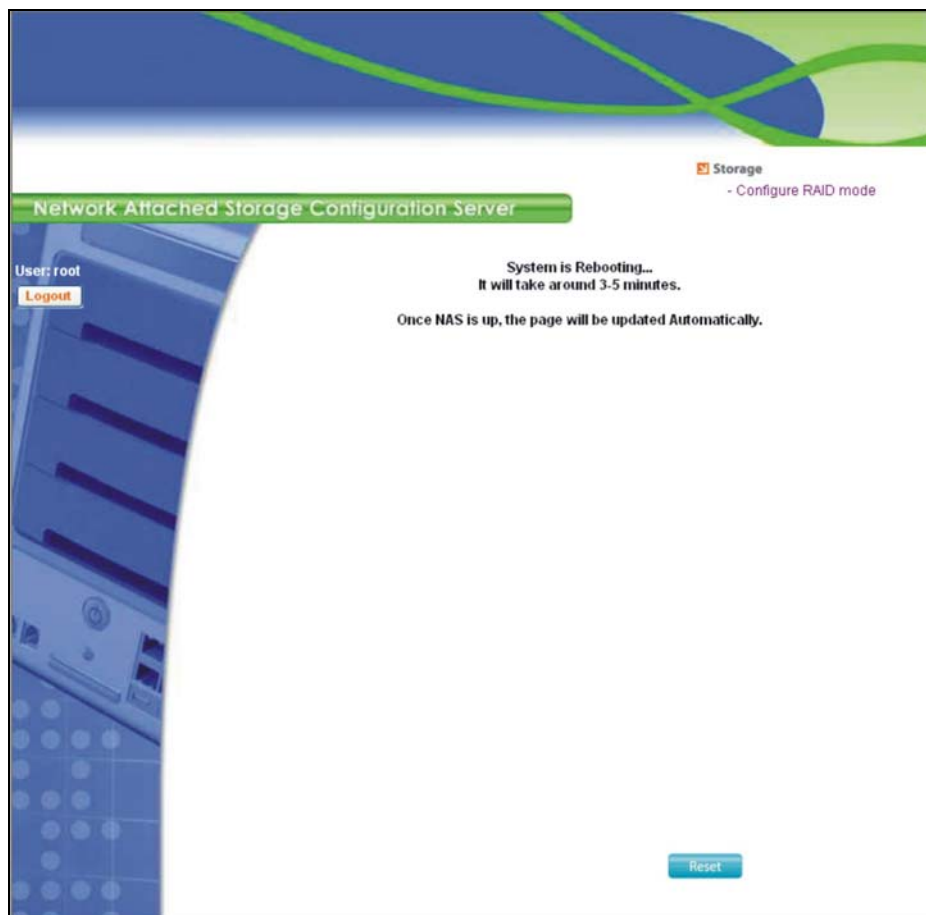
23. If you use the default mode (JBOD if \geq two hard disk drives or Single) without changing the RAID mode, click **Upgrade** and the following screen appears. Click **OK** to jump to step 29.



24. If you change the RAID mode, the following screen appears. Click **OK**.



25. The system will reboot and the following screen appears, wait for approximately 3 ~ 5 minutes.



26. After rebooting, log in by root again and no password is required.

The screenshot shows the 'Network Attached Storage Configuration Server' web interface. On the left, there is a login section with 'Login:' and 'Password:' labels, input fields, and a 'Login' button. A 'REFRESH' button is located above the 'DISK DETAILS' table. The 'DISK DETAILS' table lists two disks in slots 1 and 2, both with a total size of 372.61 GB. The 'RAID PROFILES' table shows a single profile (0) with 2 disks, RAID-1 type, and a 'Healthy' status. A 'Reset' button is at the bottom right. The interface also includes a 'Storage' status indicator and a '- Configure RAID mode' link.

Storage
- Configure RAID mode

Network Attached Storage Configuration Server

Login:
Password:
[Login](#)

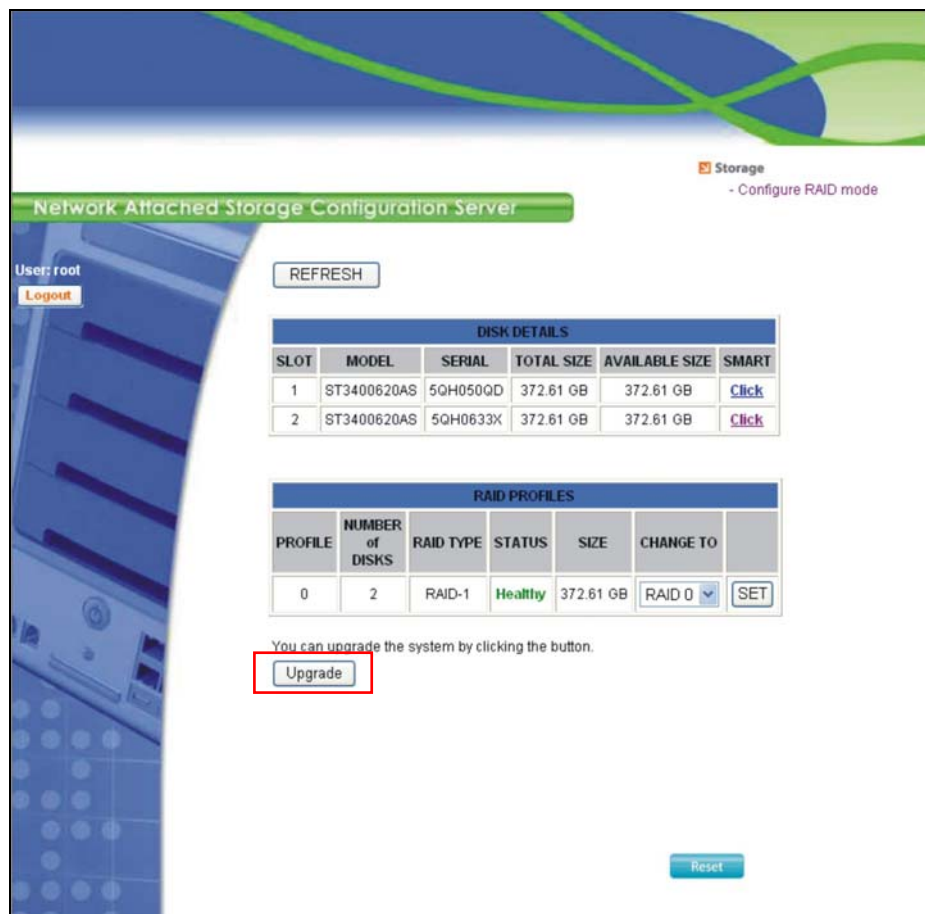
[REFRESH](#)

DISK DETAILS					
SLOT	MODEL	SERIAL	TOTAL SIZE	AVAILABLE SIZE	SMART
1	ST3400620AS	5QH050QD	372.61 GB	372.61 GB	Click
2	ST3400620AS	5QH0633X	372.61 GB	372.61 GB	Click

RAID PROFILES				
PROFILE	NUMBER of DISKS	RAID TYPE	STATUS	SIZE
0	2	RAID-1	Healthy	372.61 GB

[Reset](#)

27. The following screen appears, click **Upgrade**.



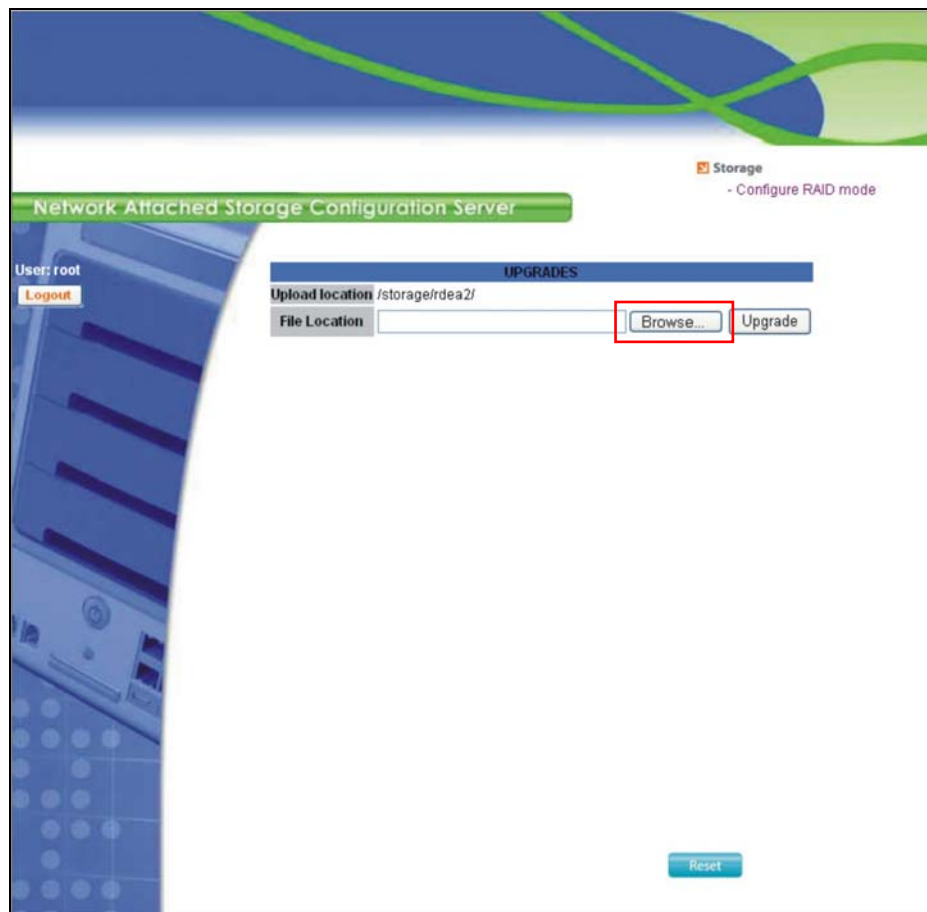
28. When the confirmation message appears, click **OK**.



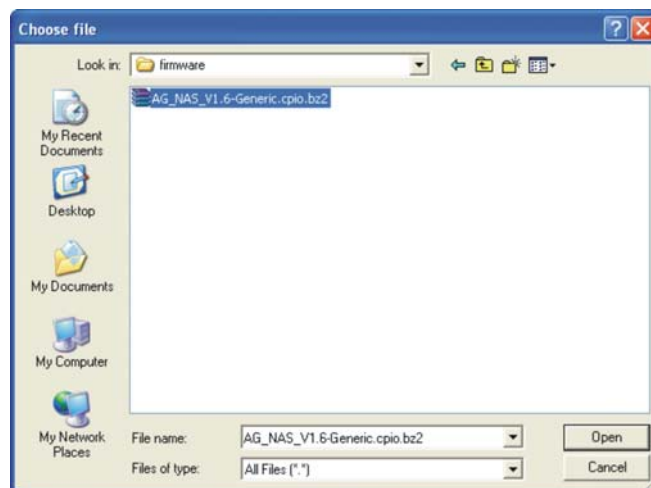
29. System will start to format the hard disk drive. After formatting, the confirmation message will appear. Click OK.



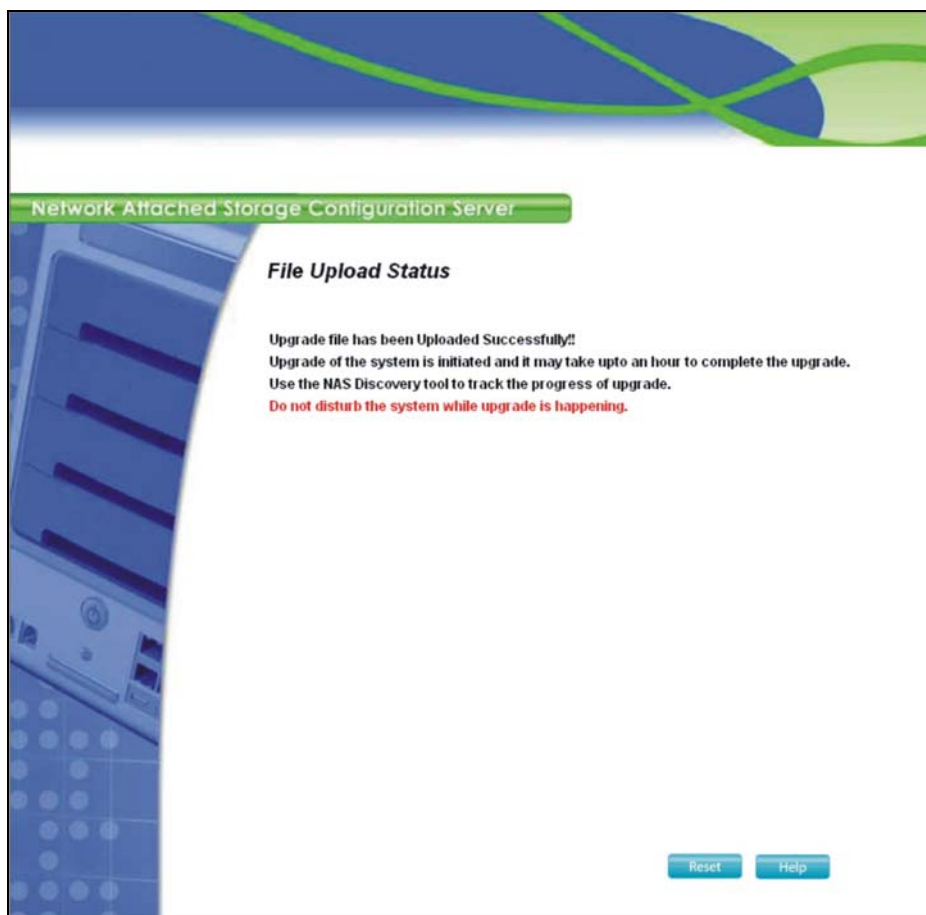
30. The following screen appears.



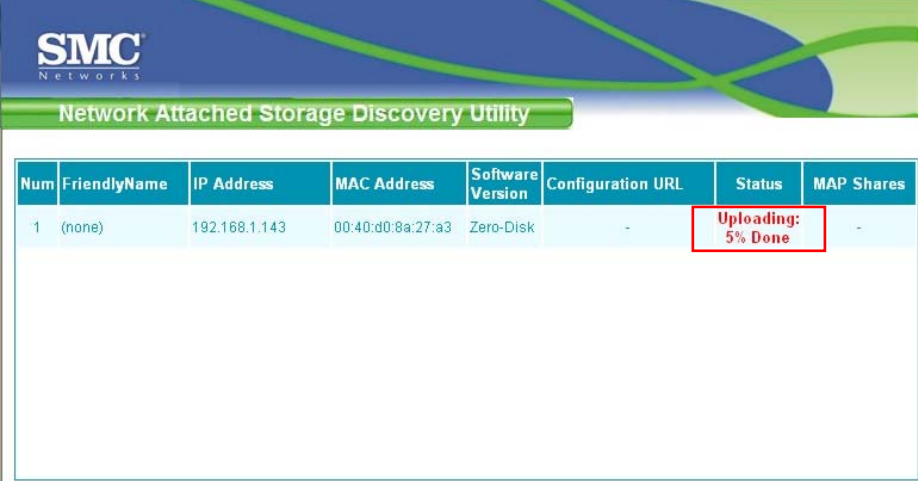
31. Click **Browse** to select and install the Full Install Image “AG_NAS_Vx.x.x-SMC.cpioo.bz2”. This file is stored under the default **C:\Program Files\NAS Discovery Utility\Firmware** directory, otherwise it can be found under the firmware folder of the directory where you previously installed the NAS Discovery utility.



32. Then click **Upgrade**. The following screen appears. The system will start to install into the NAS hard disk drive.



33. If the NAS Discovery Utility screen is not on your computer anymore, again click the **NAS Discovery Utility** shortcut icon on your desktop or you can launch the NAS Discovery Utility by clicking **Start → Programs → NAS Discovery Utility → NAS Discovery Utility**.



Num	FriendlyName	IP Address	MAC Address	Software Version	Configuration URL	Status	MAP Shares
1	(none)	192.168.1.143	00:40:d0:8a:27:a3	Zero-Disk	-	Uploading: 5% Done	-

34. The **Status** column will show various stages of the upgrade process: (total 45 minutes or more depending on the size of the hard disk)
- Upload % Done
 - Verifying Checksum
 - Extracting Firmware
 - Installing OS
 - Installing Kernel
 - Installing Media Server
 - Installing KHTTPD
 - Installing Samba
 - Installing Configurator
 - Installing NASUtils

35. When the following screen appears, click the **Click to Configure NAS** under the **Configuration URL** column to log in to Storage System Management. Proceed to the next section for details on Storage System Management.

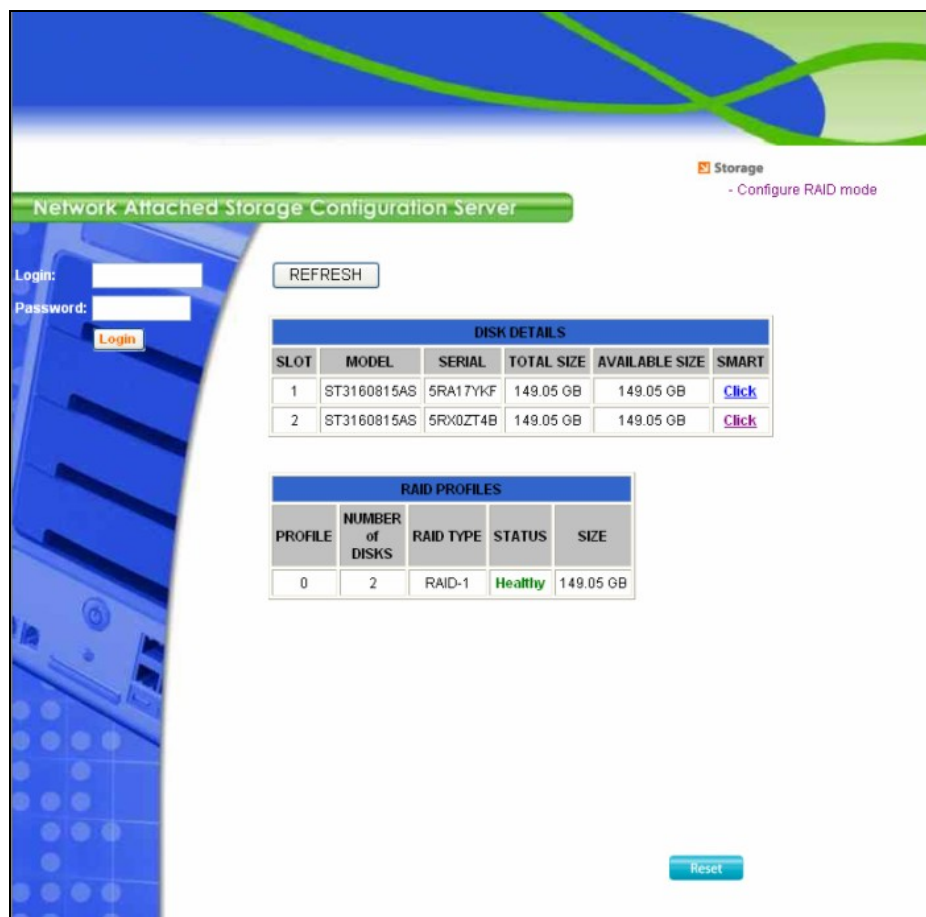


Num	FriendlyName	IP Address	MAC Address	Software Version	Configuration URL	Status	MAP Shares
1	SMCNA004	192.168.34.81	00:13:77:05:01:e8	AG_NAS-V1.7	Click to Configure NAS	Available	Click to Map

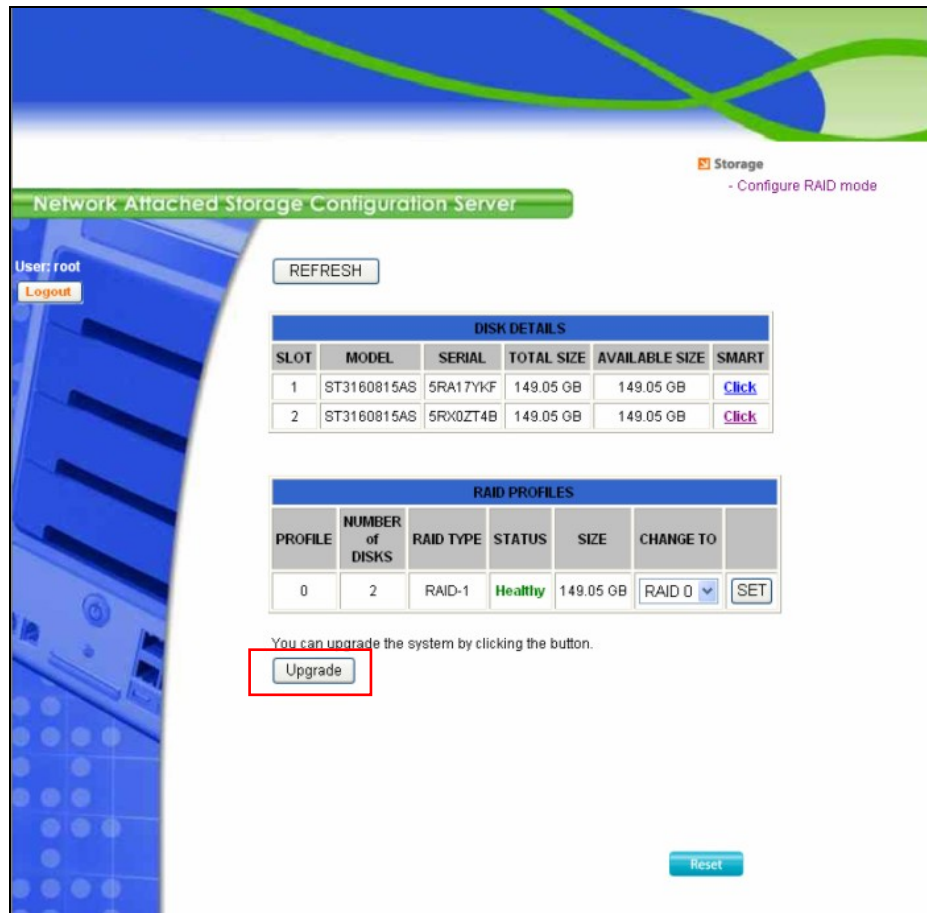
System Power-on With Full New Hard Disk Drives

IMPORTANT: If you are using full new hard disk drives that have never installed NAS middleware before, then follow the steps on this section.

1. When the discovery tool has discovered the NAS, it will show “Zero-Disk Mode” on the **Firmware Version** column. Click “Configure RAID Profile” on the **Configuration URL** column.
2. The following screen appears if you inserted two disks. Log in by root and no password is required.



3. After logging in the next screen will show how many hard disk drive(s) you installed. If two hard disk drives are installed, the default RAID mode is RAID 1, if \geq three hard disk drives are installed, the default RAID mode is RAID 5.



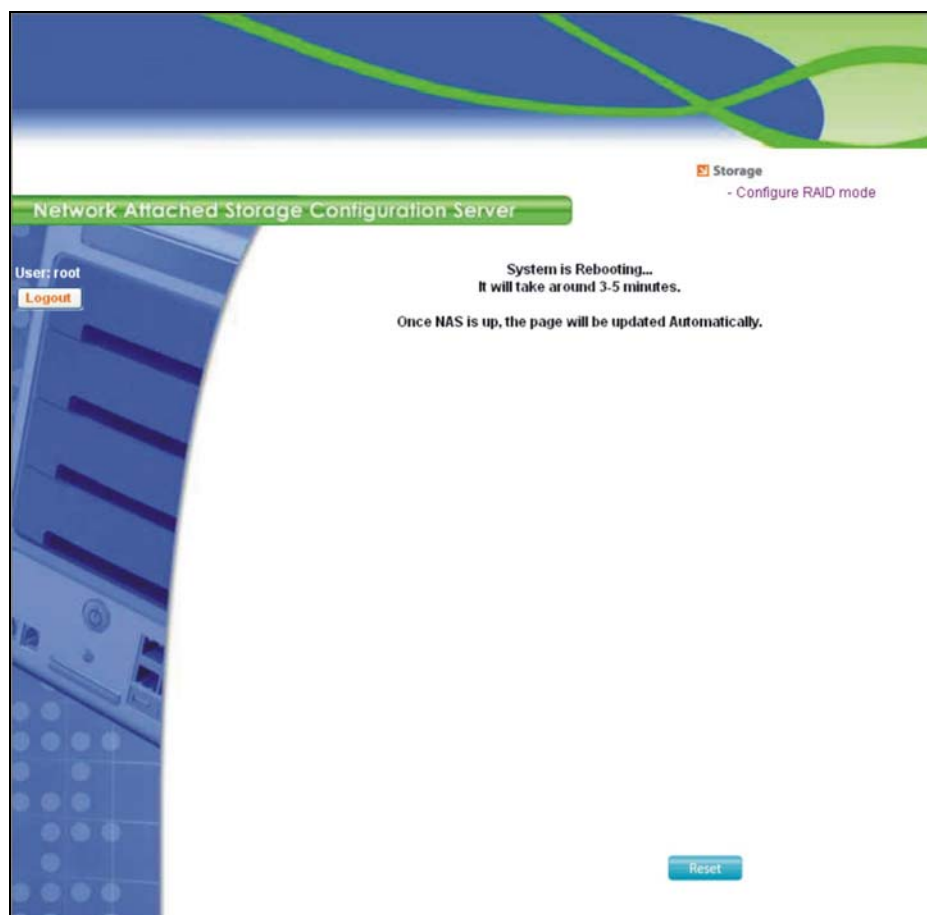
4. If you use the default RAID mode, click **Upgrade** and the following screen appears. Click **OK** to jump to step 10.



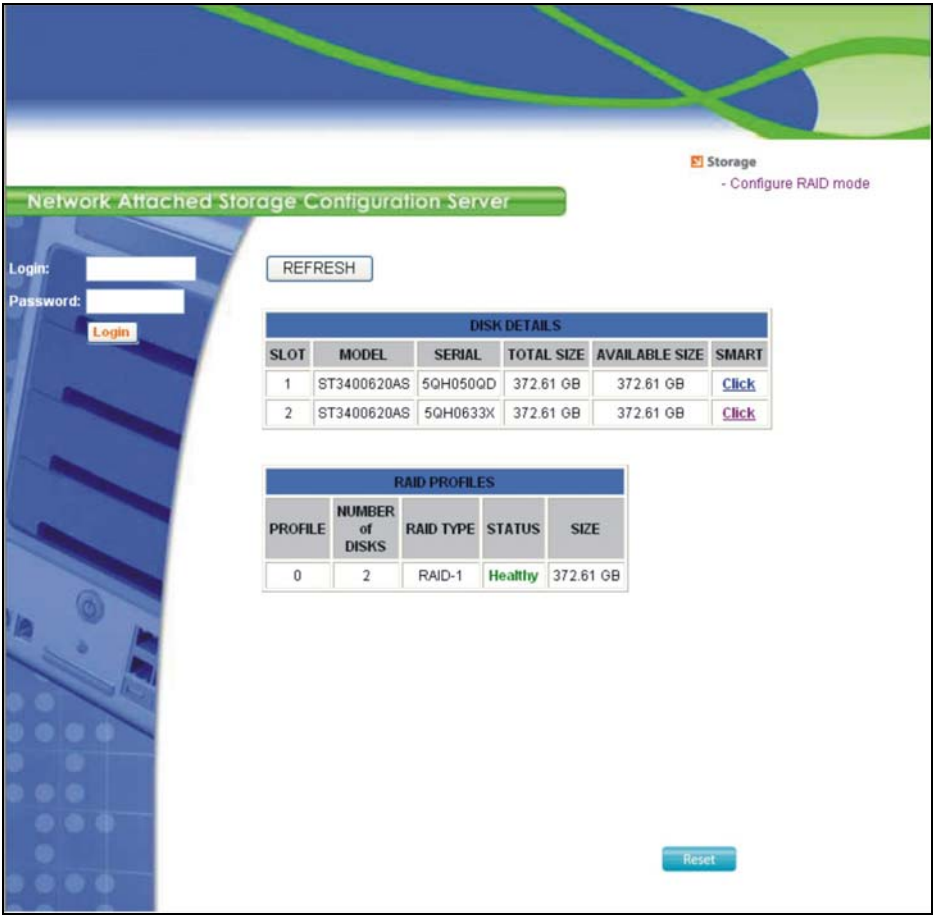
5. If you change the RAID mode, the following screen appears. Click **OK**.



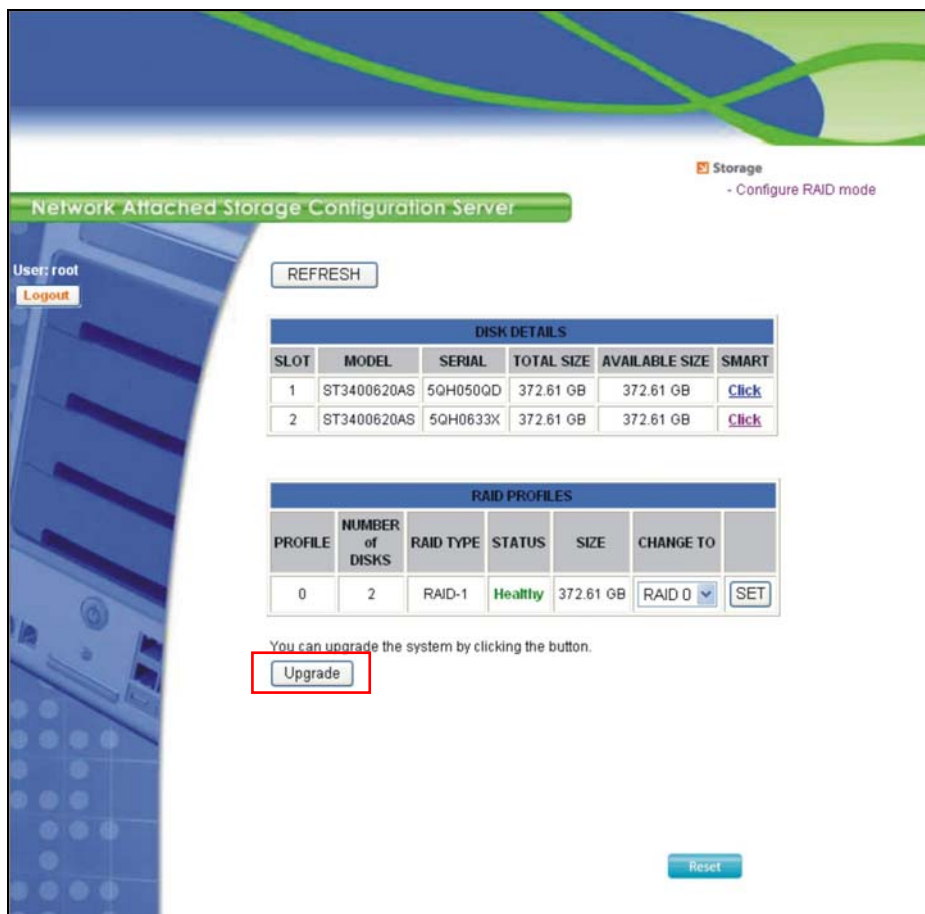
6. The system will reboot and the following screen appears, wait for approximately 3 ~ 5 minutes.



7. After rebooting it will display your new RAID mode, log in again.



8. The following screen appears, click Upgrade.



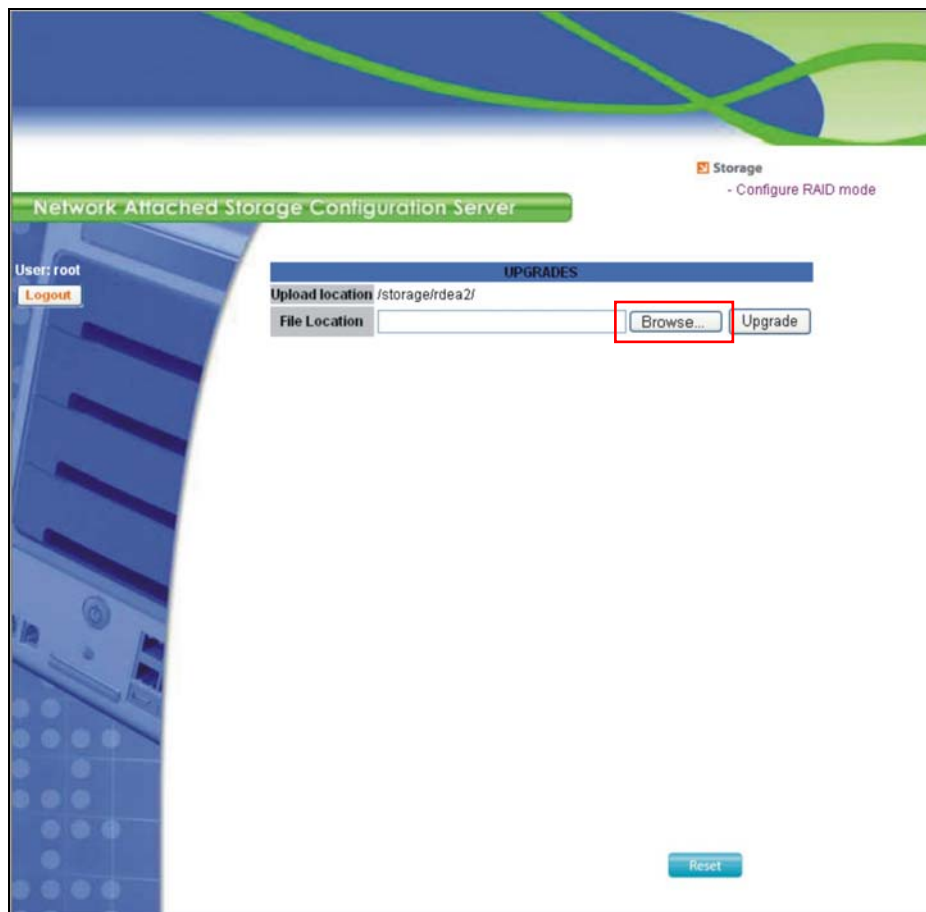
9. When the confirmation message appears, click OK.



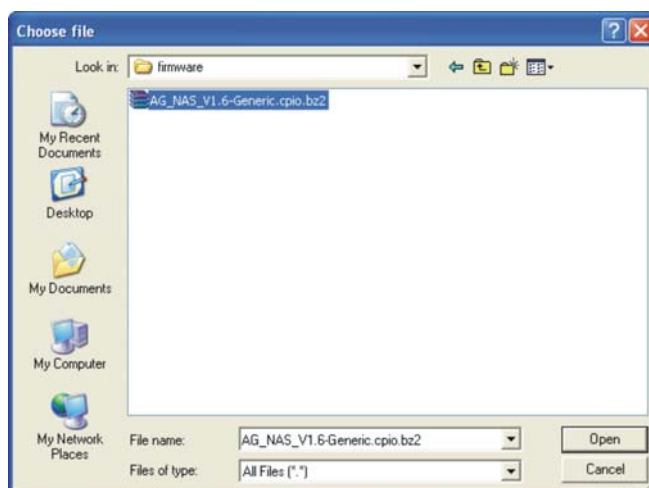
10. System will start to format the hard disk drive. After formatting, the confirmation message will appear. Click OK.



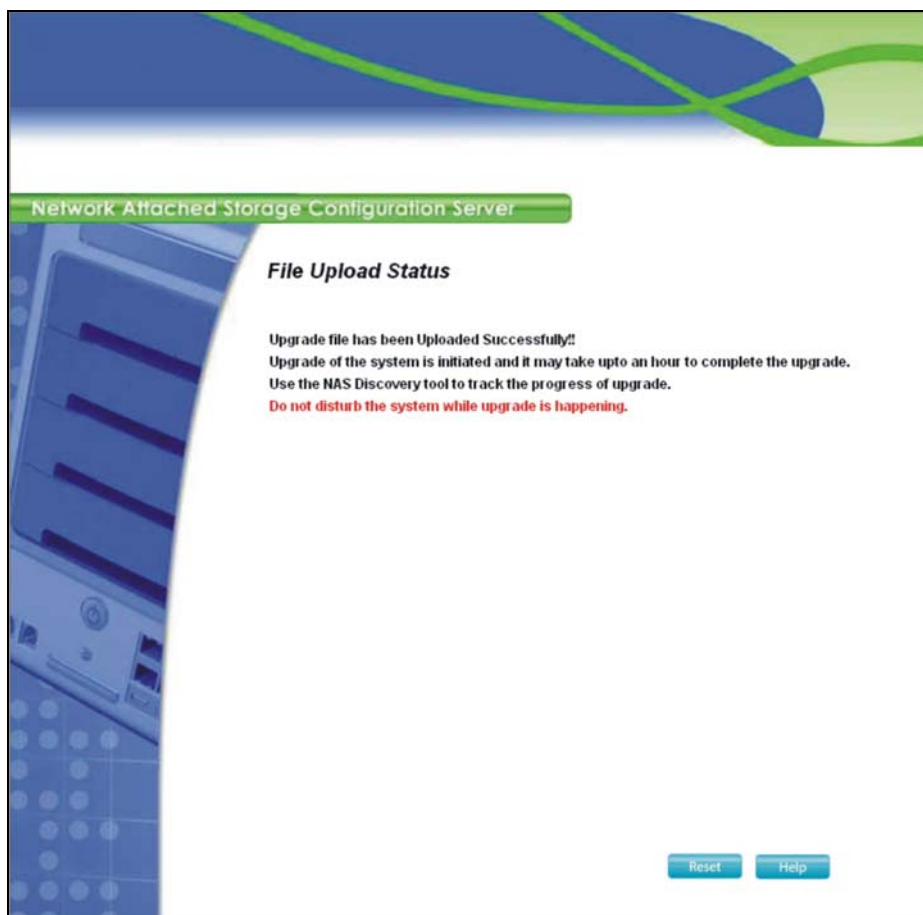
11. The following screen appears.



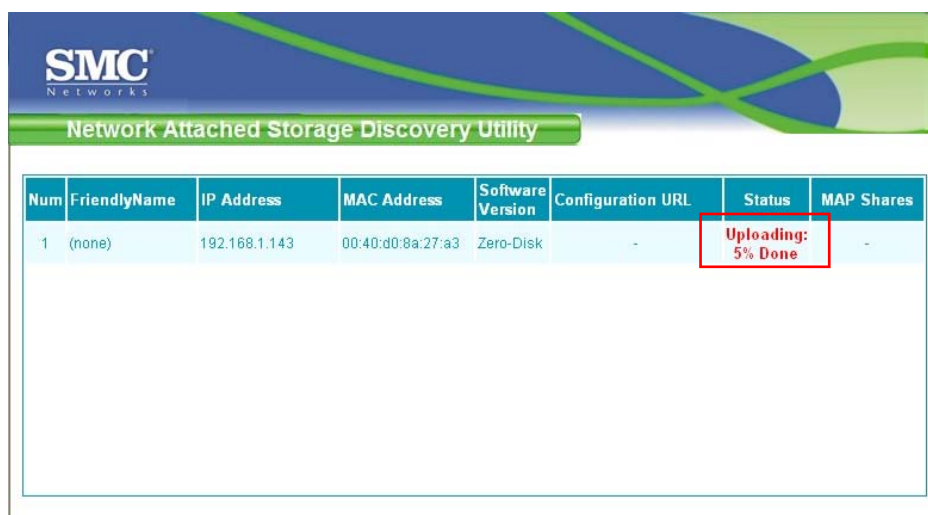
12. Click **Browse** to select and install the Full Install Image “AG_NAS_Vx.x.x-SMC.cpio.bz2”. This file is stored under the default **C:\Program Files\NAS Discovery Utility\Firmware** directory, otherwise it can be found under the firmware folder of the directory where you previously installed the NAS Discovery utility.



13. Then click **Upgrade**. The following screen appears. The system will start to install into the NAS hard disk drive.



14. If the NAS Discovery Utility screen is not on your computer anymore, again click the **NAS Discovery Utility** shortcut icon on your desktop or you can launch the NAS Discovery Utility by clicking **Start → Programs → NAS Discovery Utility → NAS Discovery Utility**.



Num	FriendlyName	IP Address	MAC Address	Software Version	Configuration URL	Status	MAP Shares
1	(none)	192.168.1.143	00:40:d0:8a:27:a3	Zero-Disk	-	Uploading: 5% Done	-

15. The **Status** column will show various stages of the upgrade process:
(total 45 minutes or more depending on the size of the hard disk)

- Upload % Done
- Verifying Checksum
- Extracting Firmware
- Installing OS
- Installing Kernel
- Installing Media Server
- Installing KHTTPD
- Installing Samba
- Installing Configurator
- Installing NASUtils

16. When the following screen appears, click the Click to Configure NAS under the Configuration URL column to log in to Storage System Management. Proceed to the next section for details on Storage System Management.



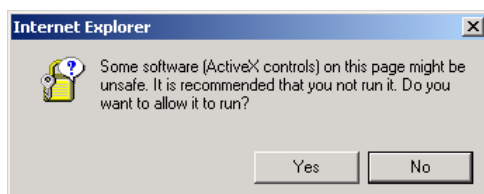
Num	FriendlyName	IP Address	MAC Address	Software Version	Configuration URL	Status	MAP Shares
1	SMCNAS04	192.168.34.81	00:13:77:85:01:e8	AG_NAS-V1.7	Click to Configure NAS	Available	Click to Map

3.2 Starting Storage System Management

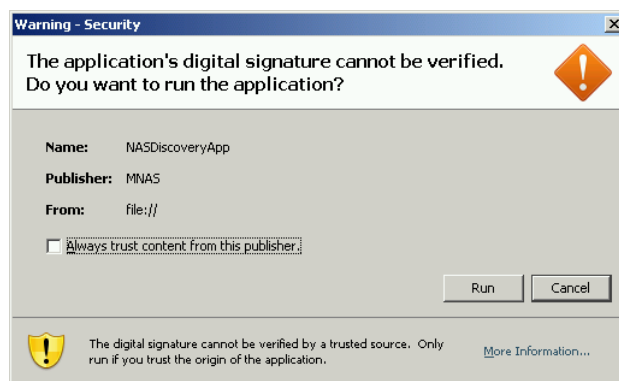
JAVA-based

1. Click the **NAS Discovery Utility** shortcut icon on your desktop or you can launch the JAVA-based NAS Discovery Utility by clicking **Start → Programs → NAS Discovery Utility → NAS Discovery Utility**.

NOTE: If the following screen appears, click **Yes** to allow ActiveX controls.



NOTE: If the following screen appears, click **Run** to allow the digital signature verification.



2. When the following screen appears, click the Click to Configure NAS on the Configuration URL column to log in the Storage System Management.



Num	FriendlyName	IP Address	MAC Address	Software Version	Configuration URL	Status	MAP Shares
1	SMCNA504	192.168.34.01	00:13:07:85:01:e0	AG_NAS-V1.7	Click to Configure NAS	Available	Click to Map

Non-JAVA based

1. Click the **NAS Discovery Utility** shortcut icon on your desktop or you can launch the non-JAVA based NAS Discovery Utility by clicking **Start → Programs → LSI Corporation → NAS Discovery Utility**.
2. When the following screen appears, click the **Configure NAS Device** on the **Configuration URL** column to log in the Storage System Management.

[illegible]

3. The system automatically scans the network for storage systems. This might take a few minutes. The following screen appears.

The image shows the login interface for SMC Networks. At the top left is the SMC Networks logo. Below it, the text "Enter your login information." is displayed. There are three input fields: "User name" with a text box, "Password" with a text box, and "Language" with a dropdown menu currently set to "English". Below these fields is an orange "Log In" button.

SMC
Networks

Enter your login information.

User name :

Password :

Language : English

4. Enter the default User name "**admin**" and the default Password "**smcadmin**" then select the desired language.
5. Click **Log In**. The Storage System Management homepage contains six tabs namely, **My NAS**, **Users & Groups**, **Shared Folders**, **Disk**, **Advanced**, and **Logout** appears.

3.3 My NAS Page

Displays a list of your storage system information (NAS name, Middleware and Flash version, MAC and IP address, Subnet mask, Gateway IP address, Disk Mode, System and Data utilization) and Current Connections (Shared folders, Users, and Login Time).

System utilization: shows the current system data partition usage.

Data utilization: shows the current data partition usage.

The screenshot displays the SMC Networks web interface. At the top, the SMC Networks logo is visible. Below it, a navigation bar contains several tabs: 'My NAS' (highlighted with a red box), 'Users & Groups', 'Shared Folders', 'Disk', 'Advanced', and 'Logout'. On the left side, there are links for '>> System setting' and '>> Network setting'. The main content area is titled 'My NAS' and contains a list of system parameters:

NAS Name:	SMCNAS24
Middleware Version:	AG_NAS_V1.7
Flash Version:	2.0
Mac:	00:13:F7:85:01:E8
IP:	192.168.34.81
Submask:	255.255.255.0
Gateway IP address:	192.168.34.254
Disk Mode:	RAID 5
System utilization:	37% (705M/2.0G)
Data utilization:	1% (4.7G/2.1T)

Below the system information, there is a blue button with a downward arrow icon labeled 'Current Connections'. Underneath this button is a section titled 'Connections' which contains a table with the following columns: 'Shared Folders', 'Users', and 'Login Time'. The table is currently empty.

System Setting

Allow you to specify the storage system name, date, time, time zone, NTP server name or IP address, administrator name, and password.

1. On the **My NAS** page, click **System setting** and the following screen appear.

SMC Networks

My NAS | Users & Groups | Shared Folders | Disk | Advanced | Logout

>> System setting
>> Network setting

My NAS: System setting

You can set the NTP server , change the NAS name and administrator username/password.

System settings
Storage system name : SMCNAS24
Date : 11 / 23 / 2007 (Month / Day / Year)
Time : 15 : 53 : 16 (Hour : Minute : Second)
Time zone : (GMT +01:00) Brussels, Copenhagen, Madrid, Paris
NTP server name or IP address : time.stdtime.gov.tw

Administrator login
Administrator name : admin
Password :
Confirm password :
 The password cannot exceed eight characters. Administrator can not exceed 15 characters.

Apply

NOTE: Be careful when changing the **Storage System Name**. Inform your clients of any change of this column for providing available functions, including shared folders or backups.

To change this . . .	Do this . . .
Storage system name	Enter the new name to use for the specific storage system. The name can be up to 15 characters long and can include letters, numbers, and hyphens.
Date, Time, Time zone	<p>In the Date fields, enter or select the month, day, and year.</p> <p>In the Time fields, enter or select the hour, minute, and second.</p> <p>In the Time zone list, select the time zone.</p>
NTP server name or IP address	<p>Enter the name or IP address of the Network Time Protocol server from which the storage system could adjust its time automatically. You can use an NTP server name only if it is resolvable/recognizable.</p> <p>NOTE: The NTP server name's maximum number of characters is 64. Can include only letters (uppercase and lowercase A~Z), numbers (0~9), hyphens (-), underlines (_), and dots (.).</p> <p>The IP address' maximum number of character is 15 (including the three "."). The format is xxx.xxx.xxx.xxx and the value of xxx is between 0 and 255.</p>
Administrator name Password Confirm password	<p>In the Administrator name field, enter the administrator name for logging in to the Storage System Management.</p> <p>NOTE: Maximum number of characters is 15</p> <p>In the Password and Confirm password fields, enter the password for logging in to the Storage System Management. The administrator name and password are case-sensitive.</p> <p>NOTE: Maximum number of characters is 8. Can include any printable ASCII characters but not (').</p>

- After making the necessary changes, click **Apply**.
- When the confirmation message appears, click **OK** for the changes to take effect.

Network Setting

Allow you to configure the network settings that include the workgroup name, MAC address, and FTP server settings.

NOTE:

- The time between AD server and the SMCNAS Samba server must be in sync (use NTP). Please check chapter 5 for AD setup on how to do this.
- You only can choose the "workgroup" of NAS or "AD full domain"
- If AD domain is selected, user cannot use the local user account to connect to NAS via Samba.
- "~", "!", "#", "\$", "%", "^", "&", "(", ")", "-", "{", "}", ".", ":", " ", and space can be included in AD account.

1. Click Network setting and the following screen appear.

SMC Networks

My NAS | Users & Groups | Shared Folders | Disk | Advanced | Logout

>> System setting
>> Network setting

My NAS: Network setting

Groupname can not excess 15 characters.

Workgroup and AD Domain properties

☒ Workgroup name:

☐ AD full domain (ex: example.com):

AD full domain controller (ex: dc.example.com):

AD administrator name:

AD administrator password:

Port 1

MAC address: 00:13:F7:85:01:E8

☒ Get an IP address automatically

☐ Use this IP address:

IP address : . . .

Subnet mask : . . .

Gateway IP address : . . .

DNS server settings

DNS server : , , ,

FTP server settings

☐ Enable FTP server

Apply

To change this . . .	Do this . . .
Workgroup name	Enter the new name for the specific workgroup. NOTE: Maximum number of characters is 15. Can include only letters (uppercase and lowercase A~Z), numbers (0~9), hyphens (-) and underlines (_). The first character must be a letter (uppercase and lowercase A~Z).
Get an IP address automatically	If you have a DHCP server on your network, the server can get its IP address from that DHCP server automatically.
Use this IP address IP address Subnet mask Gateway IP address DNS server settings	If you do not have a DHCP server, you must specify an IP address, subnet mask, gateway IP address, and DNS server. NOTE: Maximum number of characters is 15 (including the three "."). The format is xxx.xxx.xxx.xxx and the value of xxx is between 0 and 255.
FTP server settings	Allows your storage device to perform as an FTP server, and it is highly recommended to download the data transfer tool from http://filezilla.sourceforge.net/ .

If you select **AD full domain** you have to fill in the **AD full domain name**, **AD server's full domain controller name**, **AD administrator name**, and the **AD administrator password**.

Enable FTP Server

SMC Networks

My NAS | Users & Groups | Shared Folders | Disk | Advanced | Logout

>> System setting
>> Network setting

My NAS: Network setting

Groupname can not exceed 15 characters.

Workgroup and AD Domain properties

☒ Workgroup name: NAS

☐ AD full domain (ex: example.com):

AD full domain controller (ex: dc.example.com):

AD administrator name:

AD administrator password:

Port 1

MAC address: 00:13:F7:85:01:E8

☒ Get an IP address automatically

☐ Use this IP address:

IP address : . . .

Subnet mask : . . .

Gateway IP address : . . .

DNS server settings

DNS server : 192 . 168 . 34 . 5

FTP server settings

☒ Enable FTP server

Transfer Mode: Passive Port: 21 Code Page: UTF-8

Apply

To enable FTP server, take note of the following:

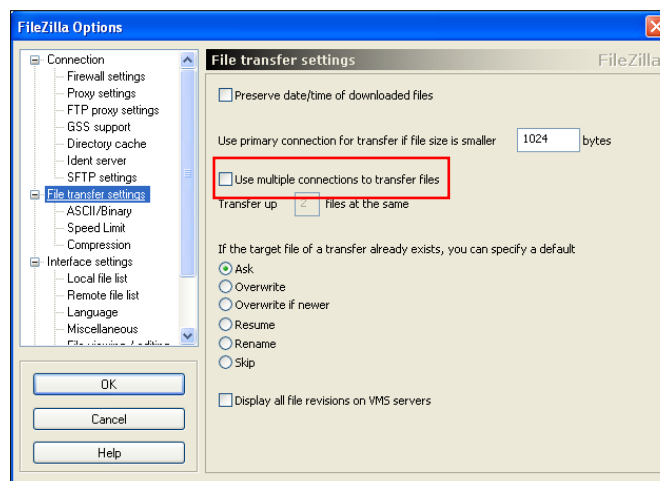
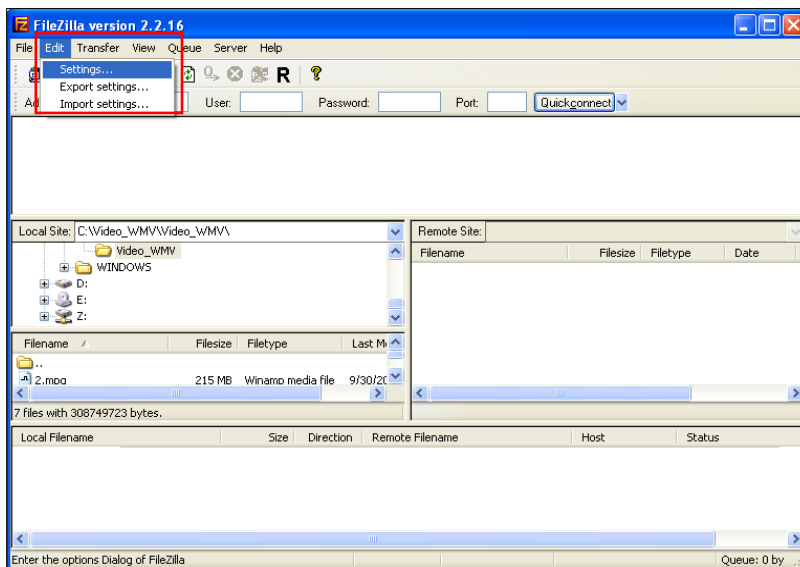
- **Transfer Mode**
Default is “passive” mode.

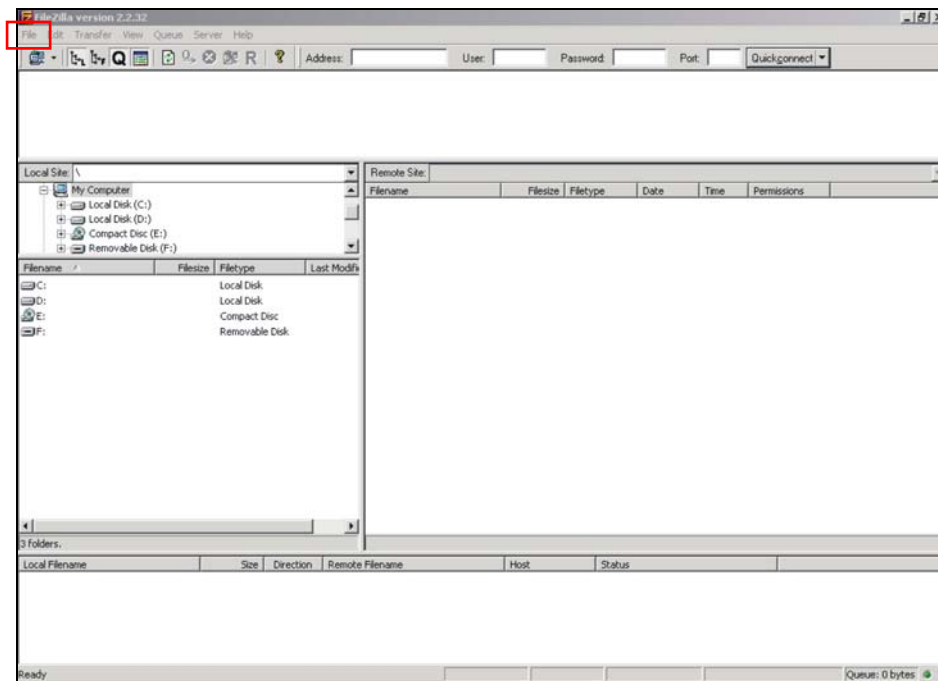
Select “Passive” when you enable Firewall protection on your Windows OS.

- **Port**
Default is “21” unless specified.
You can set one of the port range from 49152 to 65535.
- **Code Page**
Default is “UTF-8”.
For Japanese OS and you wish to upload/download file with Japanese filename, then select “Japanese.”
For Japanese OS and you wish to upload/download file with English or Traditional/Simplified Chinese filename, then select “UTF-8.”

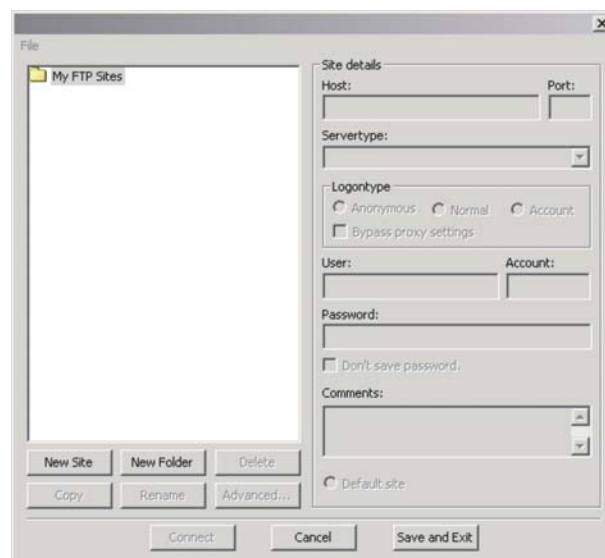
NOTE:

- If you use Filezilla v2.2.x (you are recommended to use Filezilla (shareware) as your FTP data transfer tool), **DO NOT** enable the **Use multiple connections to transfer files** setting.
- If you use Filezilla v3.0.x, set the Active mode and set NAS to passive to upload the file.





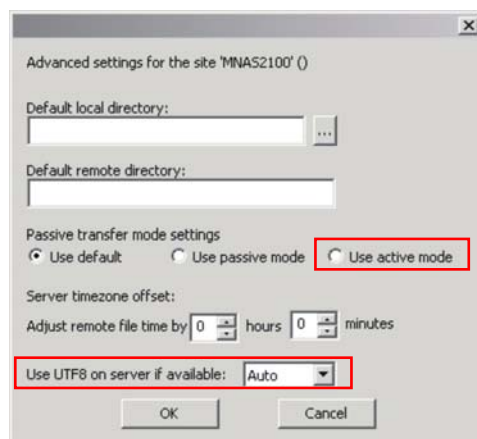
- Click File and the following screen appears.



- Click New Site.



- Select “Use active mode” on Passive transfer mode settings when using Windows OS with Firewall enabled and, select “Force” on Use UTF8 on server if available. Then click OK.



- When using the ActiveDirectory the user name for FTP is [Domain name]+[user name], e.g. Office-AD+Testuser.
- When using Workgroup mode, please just use local user name.

If you choose the option Use this IP address, the following appears.

SMC Networks

My NAS | Users & Groups | Shared Folders | Disk | Advanced | Logout

>> System setting
>> Network setting

My NAS: Network setting

Groupname can not exceed 15 characters.

Workgroup and AD Domain properties

☒ Workgroup name: NAS

☐ AD full domain (ex: example.com):

AD full domain controller (ex: dc.example.com):

AD administrator name:

AD administrator password:

Port 1

MAC address: 00:13:F7:85:01:E8

☐ Get an IP address automatically

☒ Use this IP address:

IP address : 192 , 168 , 34 , 81

Subnet mask : 255 , 255 , 255 , 0

Windows Internet Explorer

If you have changed the network address, reaccess the UI with the new address or use the NAS discovery tool to find the device later.

OK

Transfer Mode: Passive Port: 21 Code Page: UTF-8

Apply

4. After making the necessary changes, click **Apply**.
5. When the confirmation message appears, click **OK** for the changes to take effect.

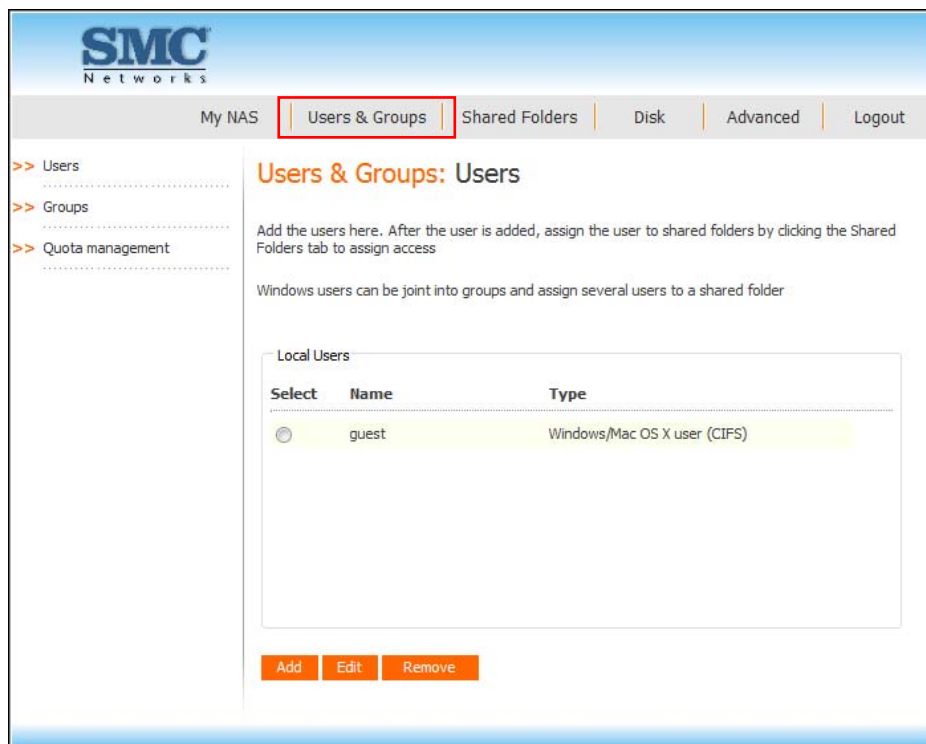
WARNING: If you change the Static IP (**Use this IP address**) back to Dynamic IP (**Get an IP address automatically**), you need to shutdown the Storage System Management and restart it again.

3.4 Users & Groups Page

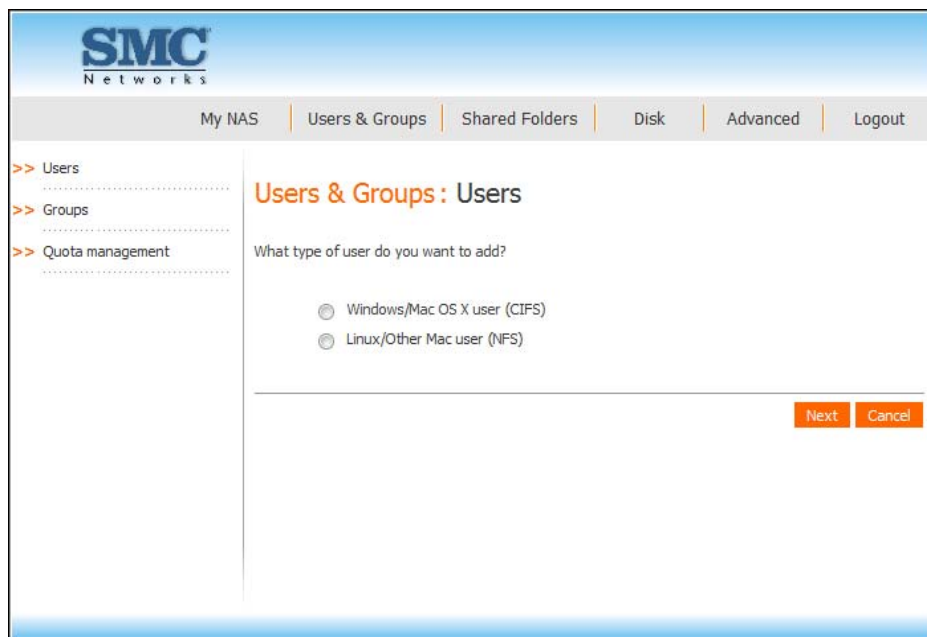
Displays a list of all currently configured users and lets you add, modify, and remove users. This area also allows you to add, modify, and remove groups as well as perform quota management.

Users

1. Click the **Users & Groups** button on the Storage System Management homepage. The following screen appears.



2. Click “**Add**” and the following screen appears, allowing you to specify the type of user (Windows/Mac OS X or Linux/Other Mac) you want to add.



2. Add the users. After the user is added, you can assign the user to shared folders by clicking **Shared Folders** to assign/restrict access (see later section for further details).

NOTE: Windows users can be joined into groups as well as assign several users to a shared folder.

For Windows/Mac OS X Users

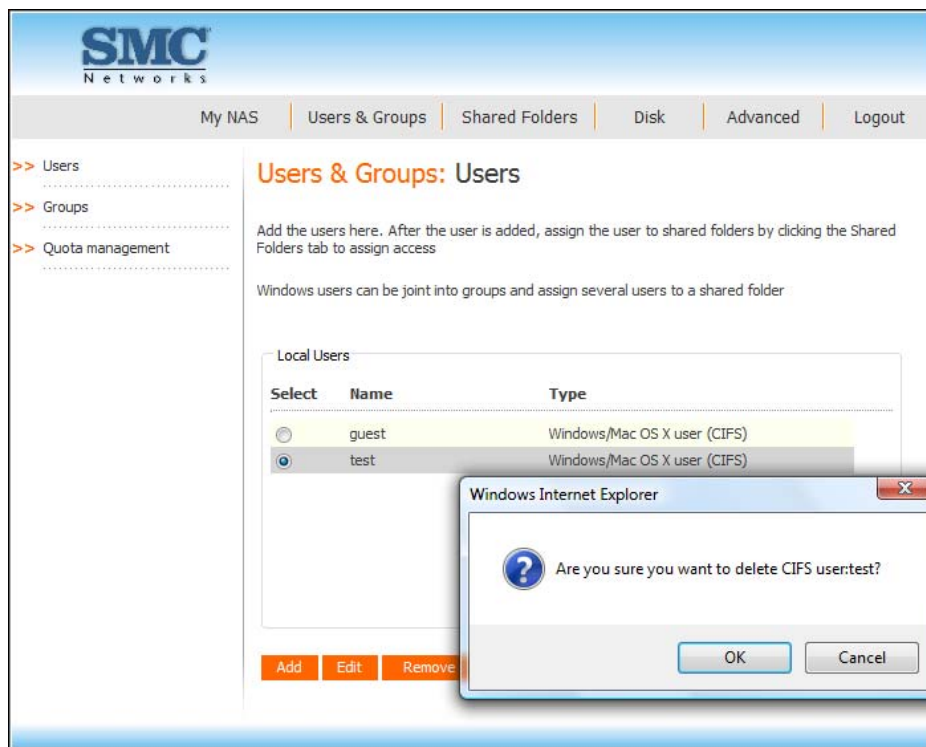
3. Click **Next** and the following screen appears. You must provide the requested user information.

The screenshot shows the SMC Networks web interface. The top navigation bar includes 'My NAS', 'Users & Groups', 'Shared Folders', 'Disk', 'Advanced', and 'Logout'. On the left sidebar, 'Users' is highlighted with a red box, with 'Groups' and 'Quota management' listed below it. The main content area is titled 'Users & Groups : Users'. It contains instructions: 'Use this screen to add a Microsoft Windows or Mac OS X user.' and 'Enter the name and the password for the user. The user must enter this name and password to access any shared folders.' A blue information icon with a speech bubble contains the text 'The password cannot exceed 24 characters.' Below this are three input fields: 'User name', 'Password', and 'Confirm password'. At the bottom right are three buttons: 'Back', 'Apply', and 'Cancel'.

To change this . . .	Do this . . .
User name	In the User name field, enter the user name.
Password	NOTE: Maximum number of characters is 24
Confirm password	<p>Can include only letters (uppercase and lowercase A~Z), numbers (0~9), hyphens (-), underlines (_), dots (.), and @ symbol. The first character must be a letter (uppercase and lowercase A~Z). Must not be any of the following uppercase or lowercase words such as “root”, “backupuser”, “nobody”, “ftp”, “anonymous”, and “www”.</p> <p>In the Password and Confirm password fields, enter the password for accessing any shared folders.</p> <p>NOTE: Maximum number of characters is 24. Can include any printable ASCII characters but not (').</p>

4. Click **Apply** and the new user would be added. Repeat the above steps until you have added all the users that you want to add at this time.

5. Click Remove and the following screen appear, allowing you to specify the type of user (Windows/Mac OS X) you want to remove.



- Click **Edit** and the following screen appears, allowing you to specify the type of user (Windows/Mac OS X) you want to edit.

The screenshot shows the SMC Networks web interface. At the top is the SMC Networks logo. Below it is a navigation bar with links: My NAS, Users & Groups, Shared Folders, Disk, Advanced, and Logout. On the left side, there is a sidebar menu with expandable sections: Users, Groups, and Quota management. The main content area is titled 'Users & Groups: Users'. It contains a message: 'The user must provide this user name and password to access any shared folders.' Below this is a warning icon and text: 'The password cannot exceed twenty-four characters.' There are three input fields: 'User name' (containing 'test'), 'Password', and 'Confirm password'. At the bottom right of the form are two buttons: 'Apply' and 'Cancel'.

- Enter the pertinent information and click **Apply**.

8. The follow screen appears.

Note : When AD domain is selected, "Users" page would display domain users with prefix of "(Domain)"

SMC Networks

My NAS | Users & Groups | Shared Folders | Disk | Advanced | Logout

>> Users
>> Groups
>> Quota management

Users & Groups : Users

Add the users here. After the user is added, assign the user to shared folders by clicking the Shared Folders tab to assign access

Windows users can be joint into groups and assign several users to a shared folder

Local Users

Select	Name	Type
<input type="radio"/>	aaa	Windows/Mac OS X user (CIFS)
<input type="radio"/>	d456@	Windows/Mac OS X user (CIFS)
<input type="radio"/>	guest	Windows/Mac OS X user (CIFS)
<input type="radio"/>	w123@	Windows/Mac OS X user (CIFS)

[Add](#) [Edit](#) [Remove](#)

Domain Users

Name	Type
administrator	DABD+domain users
guest	DABD+domain guests
support_388945a0	DABD+domain users
krbtgt	DABD+domain users
andy	DABD+domain users
cheng	DABD+domain users
edison	DABD+domain users

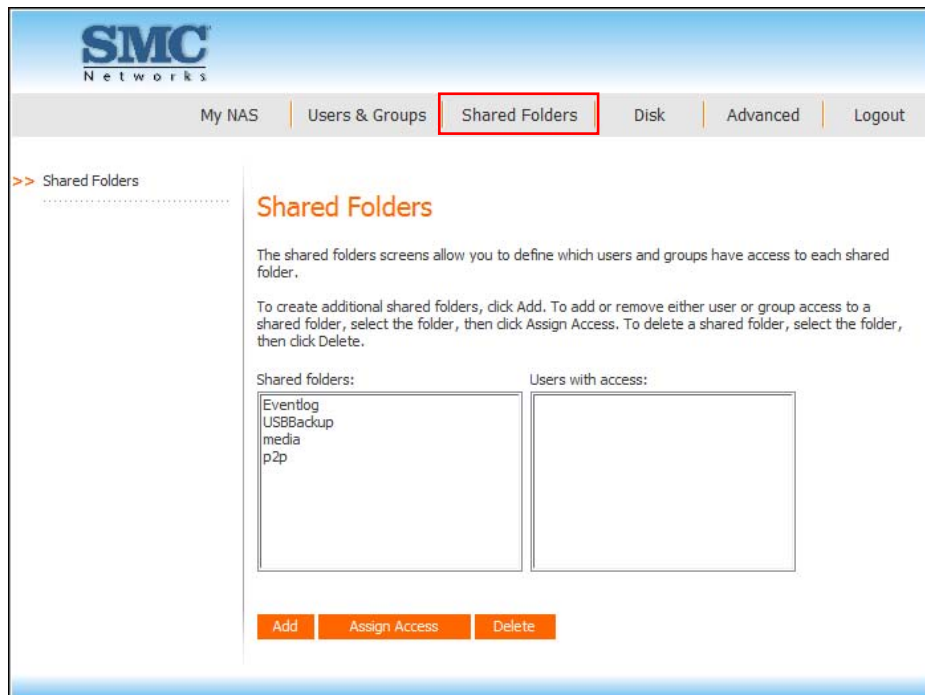
For Linux/Other Mac OS Users

1. Click **Next** and the following screen appear. You must provide the requested user information.

The screenshot shows the SMC Networks web interface. At the top is the SMC Networks logo. Below it is a navigation bar with links: My NAS, Users & Groups (selected), Shared Folders, Disk, Advanced, and Logout. On the left side, there is a sidebar menu with options: >> Users (selected), >> Groups, and >> Quota management. The main content area is titled 'Users & Groups: Users'. It contains instructions: 'Use this screen to add a Linux or Mac OS user.' and 'The Computer Description can be the name of the user who typically accesses the computer or any other description to identify the computer.' Below this, it says 'The IP address or the computer name identifies the Host system. Enter the IP address or computer name for the user that you are adding.' There are two input fields: 'Computer description' with the value 'abc' and 'IP address or computer name' with the value '192.168.34.50'. At the bottom right of the form are three buttons: Back, Apply, and Cancel.

2. Click **Apply**.

3. Click Shared Folders and the following screen appears.



4. Select the shared folder and click **Assign Access**. The following screen appears.

SMC Networks

My NAS | Users & Groups | **Shared Folders** | Disk | Advanced | Logout

>> Shared Folders

Shared Folders

Choose the users and groups that should have access to the shared folder, and specify if the user or group should have read-only or read/write access.

Shared folder name :

Authorized groups:

<< Add (Read-Only)
<< Add (Read/Write)
Remove >>

Unauthorized groups:

(Domain)administrators
(Domain)users
(Domain)dnsupdateproxy
(Domain)domain admins
(Domain)domain computers
(Domain)domain controllers
(Domain)domain guests
(Domain)domain users
(Domain)enterprise admins
(Domain)group policy creator

Authorized users:

(Domain)andy | Read/Write
aaa | Read/Write
d456@ | Read/Write
guest | Read-Only
w123@ | Read/Write

<< Add (Read-Only)
<< Add (Read/Write)
Remove >>

Unauthorized users:

(Domain)administrator
(Domain)cheng
(Domain)edison
(Domain)guest
(Domain)krbtgt
(Domain)support_388945a0

Apply Cancel

5. Select the authorized user(s) and grant access right. Then click **Apply**.

The screenshot shows the SMC Networks web interface. At the top is the SMC Networks logo. Below it is a navigation bar with links: My NAS, Users & Groups, Shared Folders (selected), Disk, Advanced, and Logout. The main content area is titled 'Shared Folders' and includes a sub-header 'Shared Folders'. Below this is a description: 'Choose the users and groups that should have access to the shared folder, and specify if the user or group should have read-only or read/write access.' A text field for 'Shared folder name' contains 'USBBackup'. There are four list boxes: 'Authorized groups' (empty), 'Unauthorized groups' (empty), 'Authorized users' (containing 'guest | Read-Only' and 'test | Read/Write'), and 'Unauthorized users' (empty). Between the group and user boxes are three buttons: '<< Add (Read-Only)', '<< Add (Read/Write)', and 'Remove >>'. At the bottom right are 'Apply' and 'Cancel' buttons.

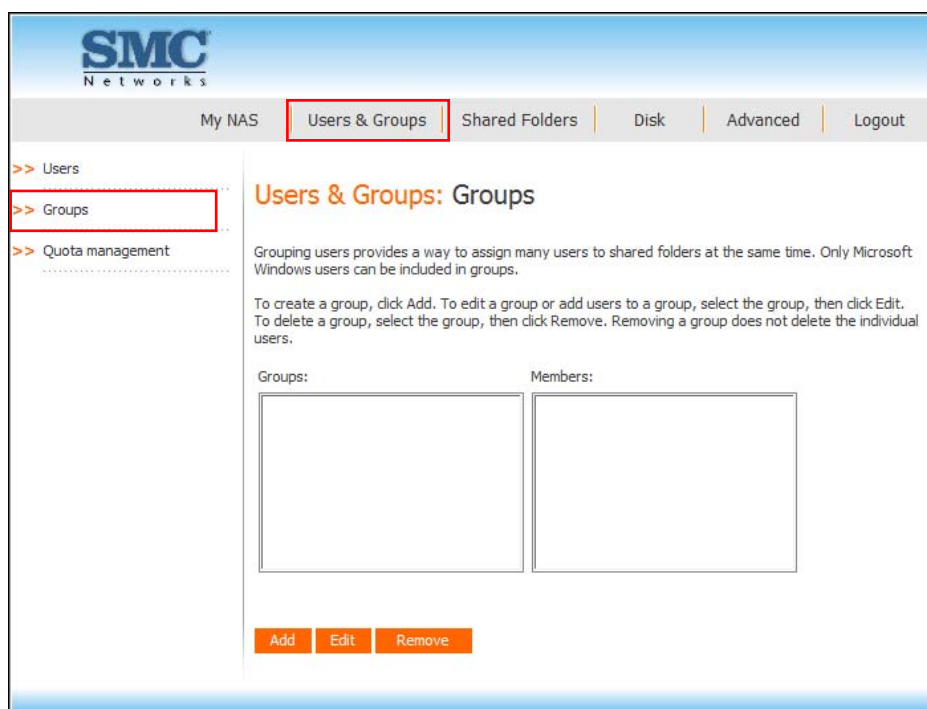
NOTE: If you grant shared folder access right to Linux user, the Linux user can `mount -t nfs -o tcp NASIP:/content/shared foldername PCmountfolder` at Linux PC (Fedora 5/6/7) to mount the file to NAS as well as read/write the file to NAS.

Groups

Placing users into groups makes it easier to give several users access to the same shared folder at once.

6. Click **Groups** under the **Users & Groups** page. The following screen appears.

NOTE: Only Windows users can be included in groups.



7. Click **Add** and the following screen appear. Enter a group name and add all or selected users to this group.

The screenshot shows the SMC Networks web interface. The top navigation bar includes 'My NAS', 'Users & Groups' (selected), 'Shared Folders', 'Disk', 'Advanced', and 'Logout'. On the left, a sidebar menu has 'Users', 'Groups' (selected), and 'Quota management'. The main content area is titled 'Users & Groups: Groups'. It contains instructions: 'Grouping users provides a way to assign many users to shared folders at the same time. Only Microsoft Windows users can be included in groups.' and 'Enter the name of the group. This name can be up to 15 characters long and can contain letters (uppercase and lowercase A-Z), numbers (0-9), hyphens (-), and underlines (_).' Below this is a text input field for 'Group name' with 'Marketing' entered. Further down, there are two columns: 'Groups members' containing 'test' and 'Available users' containing 'SMC'. Between these columns are four orange buttons: '<< Add All Users', '<< Add Selected User(s)', 'Remove All Users >>', and 'Remove Selected User(s) >>'. At the bottom right are 'Apply' and 'Cancel' buttons.

You can also remove all or selected users from a group.

8. Click **Apply**.

Quota Management

Allows the administrator to limit (enlarge/shrink) user disk space.

NOTE: Before enabling/disabling Quota Management, make sure that iTunes is not enabled, no USB device is mounted, and there is no existing Samba connection to your storage device (see later section for details).

1. Click **Quota management** under the **Users & Groups** page. The following screen appears.

The screenshot shows the SMC Networks web interface. The top navigation bar includes 'My NAS', 'Users & Groups' (highlighted with a red box), 'Shared Folders', 'Disk', 'Advanced', and 'Logout'. On the left sidebar, under 'Users & Groups', 'Quota management' is highlighted with a red box. The main content area is titled 'Users & Groups: Quota management'. It features a warning icon and text: 'When iTunes is enabled or USB device mounted or existing samba connection, the Quota management can not be enabled or disabled.' Below this, there is a section to 'Enable quota for all users' with a checkbox, a text input for 'Quota size on the SATA disk' (set to 0 MB), and a password field for 'Administrator password'. An 'Apply' button is present. The second section, 'Users:', shows a list with 'guest' selected. To the right, 'Quota status for user:' displays 'Disk Free Size: 0 MB', 'Quota Size: 0 MB', 'Used Size: 0 MB', and 'Available Size: 0 MB'. Below this, a section 'Set the Quota Size of guest on the SATA disk' offers 'No limit' (selected) or 'Quota Size: 0 MB'. Another 'Administrator password' field and 'Apply' button are at the bottom.

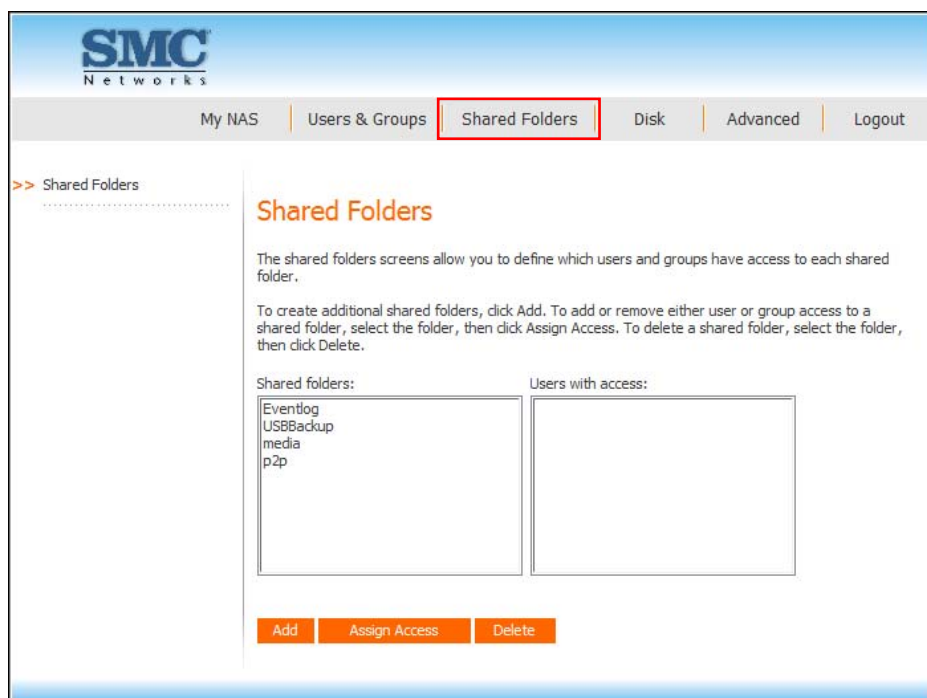
To change this . . .	Do this . . .
Enable quota for all users	Click the checkbox to set quota for all Windows users.
Quota size on the SATA disk	In the Quota size on the SATA disk field, enter the quota size (MB).
Administrator password	In the Administrator password field, enter the password for logging in to the Storage System Management. The password is case-sensitive. NOTE: Maximum number of characters is 8. Can include any printable ASCII characters but not (').
Users	Displays a list of available users.
Set the Quota Size of guest on the SATA disk	For setting the quota of the specific user on the SATA disk. In the Set the Quota Size of guest on the SATA disk field, select No Limit or Quota Size and enter the quota size (MB).
Administrator password	In the Administrator password field, enter the password for logging in to the Storage System Management. The password is case-sensitive. NOTE: Maximum number of characters is 8. Can include any printable ASCII characters but not (').

- After making the necessary changes, click **Apply** after keying in the **Administrator password** for all users in the upper segment or select one specific user in the lower segment and set his/her quota to **No limit** or **Quota Size**, then key in the **Administrator password** and click **Apply**.
- When the confirmation message appears, click **OK** for the changes to take effect.

3.5 Shared Folders Page

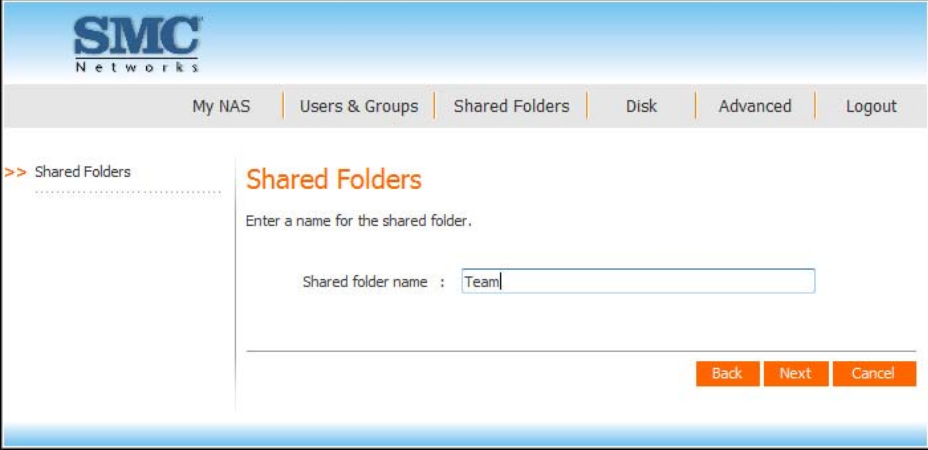
Displays a list of all currently configured and shared folders and allow you to add shared folders, change the right of access for users or remove them.

1. Click the **Shared Folders** button on the Storage System Management homepage. The following screen appears.



Add Shared Folder

2. Click **Add** to create a shared folder and the following screen appears.



The screenshot shows the SMC Networks web interface. At the top is the SMC Networks logo. Below it is a navigation bar with links: My NAS, Users & Groups, Shared Folders, Disk, Advanced, and Logout. The main content area is titled 'Shared Folders' and contains the instruction 'Enter a name for the shared folder.' Below this is a text input field labeled 'Shared folder name : ' with the word 'Team' entered. At the bottom right of the form are three buttons: 'Back', 'Next', and 'Cancel'.

3. Enter the name of the new shared folder and click **Next**.

NOTE: Maximum number of characters is 64. Can include only letters (uppercase and lowercase A~Z), numbers (0~9), hyphens (-), underlines (_), and dots (.). First character must be a letter (uppercase and lowercase A~Z). Must not be any of the following uppercase or lowercase words such as "com1," "com9," "lpt1," "lpt9," "con," "nul," "prn," "aux," "homes," "spool," "usbdisk1," "usbdisk2," "usbprint1," or "usbprint2."

Assign Access

4. Select the shared folder whose user access you want to change (add or remove user).
5. Click **Assign Access** and the following screen appear.

The screenshot shows the SMC Networks web interface. At the top is the SMC Networks logo. Below it is a navigation bar with links: My NAS, Users & Groups, Shared Folders (selected), Disk, Advanced, and Logout. The main content area is titled '>> Shared Folders' and 'Shared Folders'. It contains a text box for 'Shared folder name' with the value 'Team'. Below this are four lists: 'Authorized groups' (empty), 'Unauthorized groups' (empty), 'Authorized users' (containing 'test | Read/Write'), and 'Unauthorized users' (containing 'guest'). Between the group and user lists are three buttons: '<< Add (Read-Only)', '<< Add (Read/Write)', and 'Remove >>'. At the bottom right are 'Apply' and 'Cancel' buttons.

SMC Networks

My NAS | Users & Groups | Shared Folders | Disk | Advanced | Logout

>> Shared Folders

Shared Folders

Choose the users and groups that should have access to the shared folder, and specify if the user or group should have read-only or read/write access.

Shared folder name :

Authorized groups:

Unauthorized groups:

<< Add (Read-Only)
<< Add (Read/Write)
Remove >>

Authorized users:

Unauthorized users:

test | Read/Write

guest

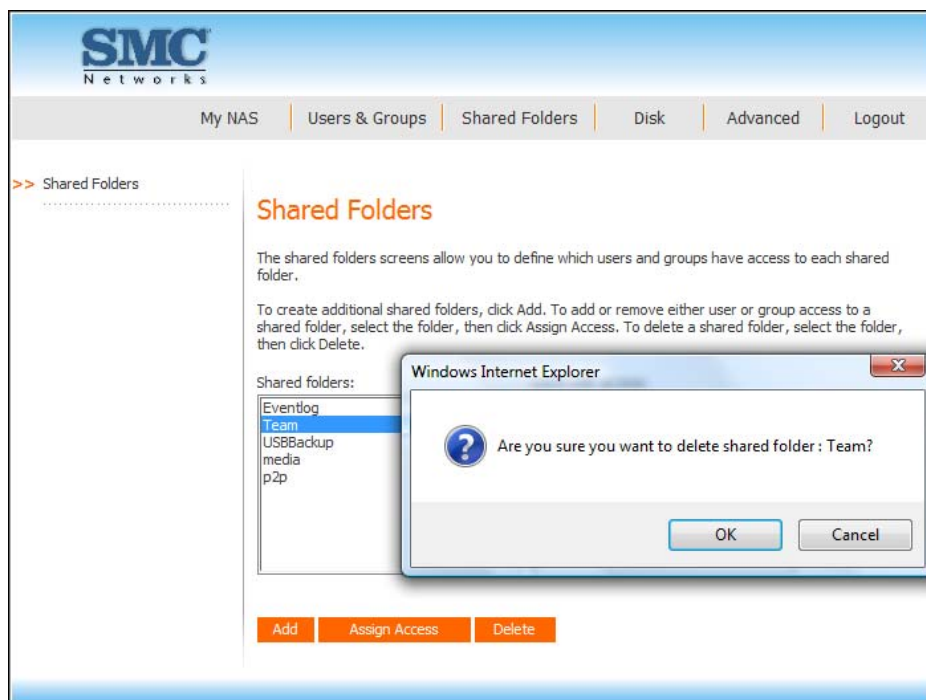
<< Add (Read-Only)
<< Add (Read/Write)
Remove >>

Apply Cancel

6. You can **Add** (specify as **Read-Only** or **Read/Write**) users/groups to, as well as **Remove** existing users/groups from shared folders.

Delete Shared Folder

7. Select the shared folder you want to remove.
8. Click **Delete** and the following screen appear.

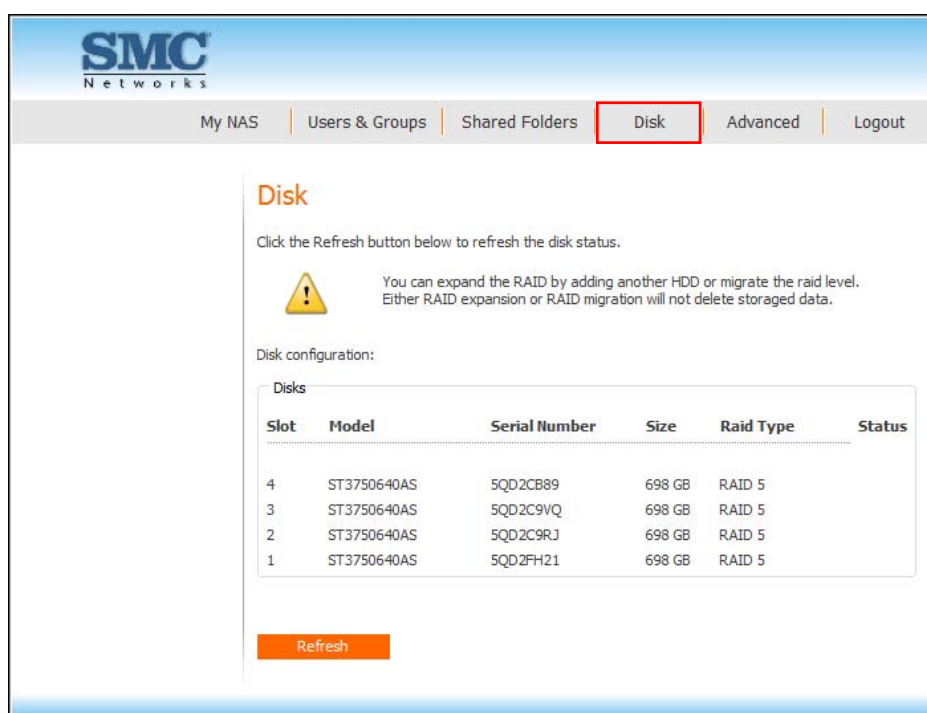


9. Click **OK** to confirm deletion.
10. After adding, deleting, or assigning access to shared folder, click **Apply**.
11. When the confirmation message appears, click **OK** for the changes to take effect.

3.6 Disk Page

Allow you to view information about the installed hard disk(s) slot, model, serial number, size, RAID type, and disk status (shows the RAID rebuilding percentage).

1. Click the **Disk** button on your Storage System Management homepage. The following screen appears.



2. Click **Refresh** to update the status of the hard disk(s) installed in your storage system.

3.7 Advanced Page

Provides access to advanced storage system configuration options such as setting up email alert, upgrading firmware, UPS (uninterruptible power supply), iTunes/media/printer server, USB backup, viewing information about system events, shutting down and reboot the system remotely.

Alerts

Allows you to set up the storage system to notify up to two people via email if any problem occurs namely, when hard disk space usage is full, or the upper operating temperature has been reached, or when USB-UPS' power level is not adequate.

To take advantage of this feature, you must have access to an SMTP email server, either within your own network or through an Internet service provider.

NOTE: In order to be able to send out email alerts, the "Authentication" feature of the intended email recipient must be disabled.

1. Click the **Advanced** button on the Storage System Management homepage.
The following screen appears.

The screenshot shows the SMC Networks Storage System Management homepage. The top navigation bar includes 'My NAS', 'Users & Groups', 'Shared Folders', 'Disk', 'Advanced' (highlighted with a red box), and 'Logout'. On the left sidebar, the 'Alerts' option is also highlighted with a red box. The main content area is titled 'Advanced: Alerts' and contains a warning icon and text: 'If you want to send out the mail alert. You can specify a name for your SMTP server only if your network has a DNS server'. Below this is a checkbox for 'Send e-mail notifications.' and a section for 'E-mail server' configuration. This section includes a text field for 'SMTP server name or IP address', a checkbox for 'SMTP server authentication', and fields for 'User name' and 'Password'. A blue information icon with a lock symbol is present, with text: 'Enter a user name and password for your e-mail server only if this is required by your e-mail server.' Below the 'E-mail server' section is the 'E-mail sender' section with a 'Sender e-mail address' field. At the bottom is the 'E-mail recipients' section with 'First e-mail address' and 'Second e-mail address' fields. At the very bottom are 'Apply' and 'Test E-mail' buttons.

2. Enter the information about your SMTP email server, sender's email address, and up to two email addresses that should receive the notification.

NOTE:

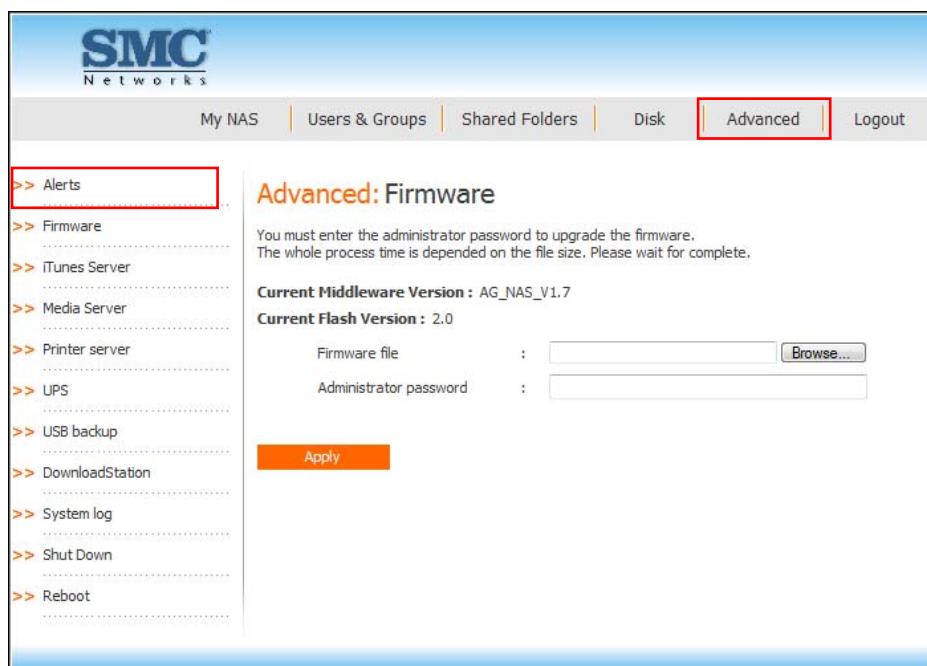
- If your SMTP email server has authentication, enable it and enter the User name and Password.
- The SMTP email server name's maximum number of characters is 64. Can include only letters (uppercase and lowercase A~Z), numbers (0~9), hyphens (-), underlines (_) and dots (.).
- The sender's email address' maximum number of characters is 128.

3. Click **Apply**.
4. When the confirmation message appears, click **OK** to confirm.

Firmware

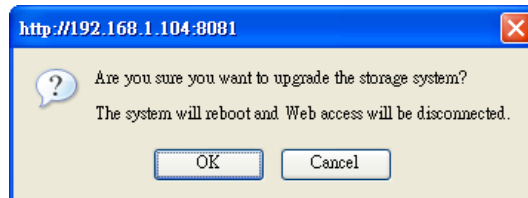
Allows you to upgrade your storage system to a newer firmware when available (check the support section of www.smc.com for the latest firmware).

1. Click **Firmware** on the **Advanced** page and the following screen appears. For additional security, you must enter your administrator password in order to upgrade the firmware.

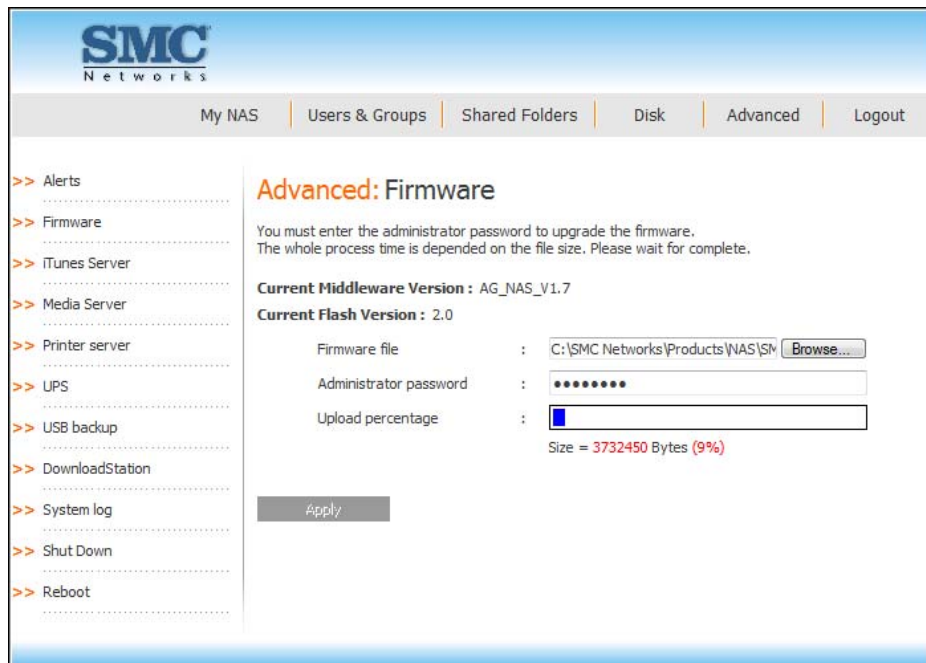


2. Click **Browse** and select the **Upgrade File** "**Upgrade_SMCNASx4-Vxx.xx.cpio.bz2**" from the displayed list (you can place the firmware Upgrade file in any folder on the computer that you prefer).
3. In the **Administrator password** text box, enter the password.
4. Click **Apply**.

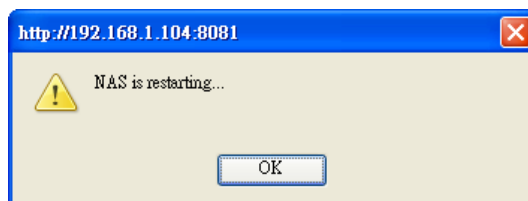
5. When the confirmation message appears, click OK to confirm.



6. The upload percentage will be displayed.



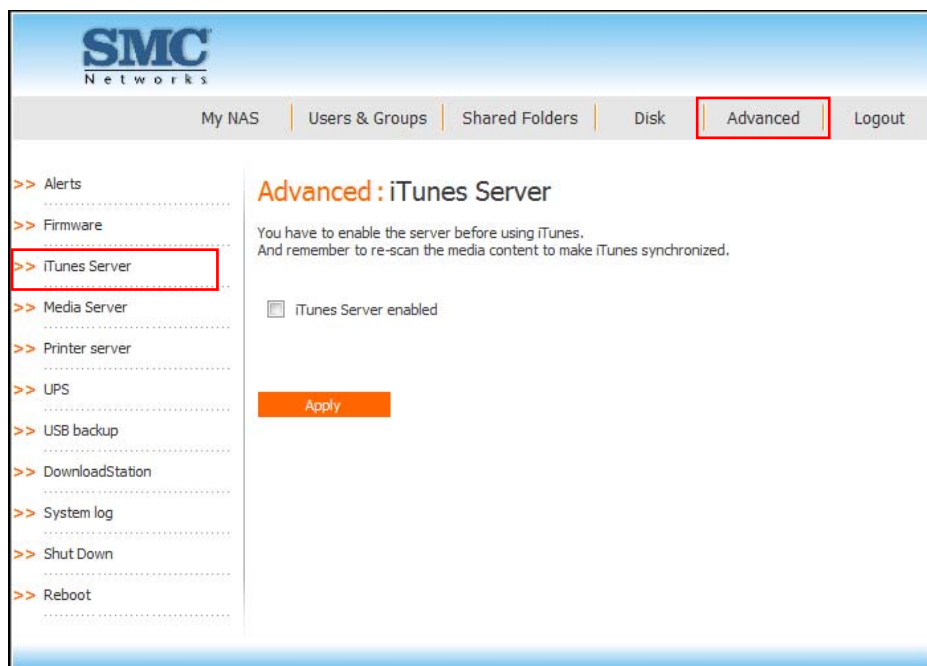
7. System will reboot automatically after upgrade has finished.



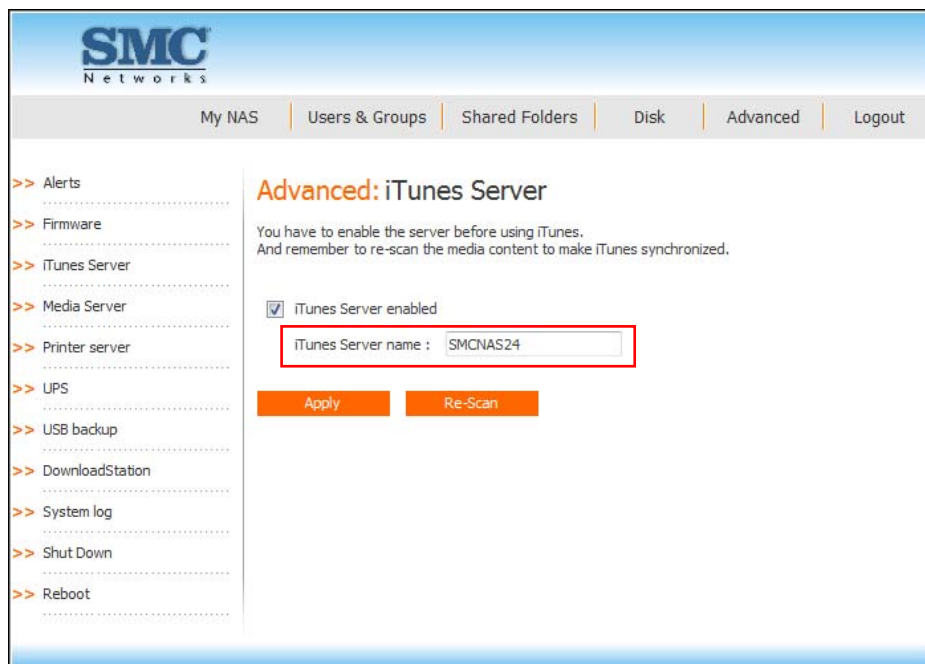
iTunes Server

Allow your storage system to function as an iTunes server for accessing digital music files from an iTunes client running either on a Windows Computer or Apple Computer with Mac OS X.

1. Click iTunes Server on the **Advanced** page and the following screen appears.



2. Click the checkbox iTunes Server enabled.
3. Click **Apply** and the following screen appears.



4. Click **Re-Scan** to synchronize iTunes.

NOTE:

- You need to do this every time there are new contents available.
- The administrator is allowed to change the iTunes server name.

Media Server

Allow your storage system to function as a media server by specifying the scan path, selecting the media file type(s), start scanning and afterwards display the results of the scan, as well as delete and backup media database.

1. Click **Media Server** on the **Advanced** page and the following screen appears.

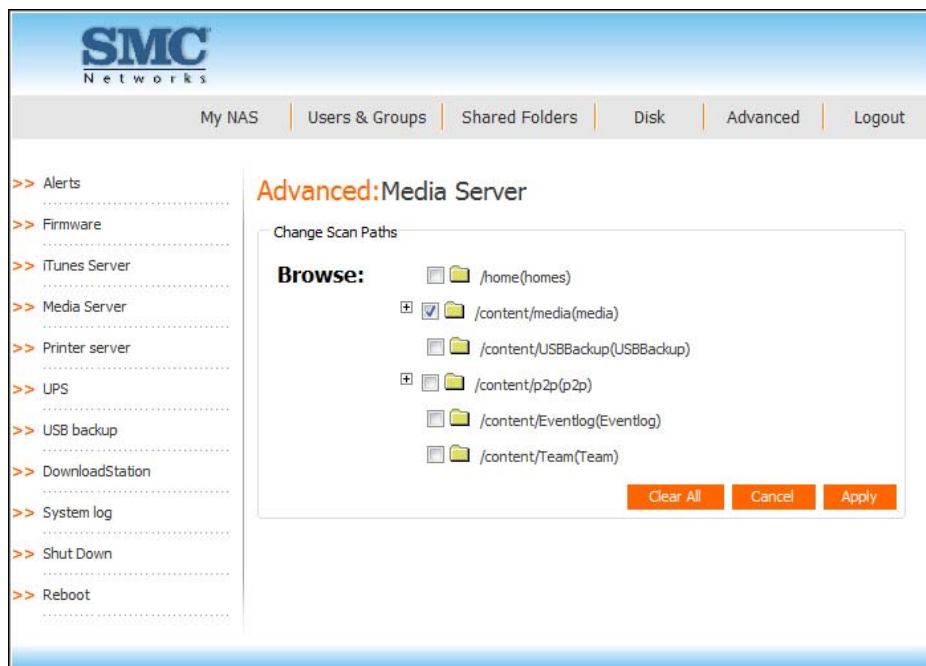
The screenshot shows the SMC Networks web interface. The top navigation bar includes 'My NAS', 'Users & Groups', 'Shared Folders', 'Disk', 'Advanced' (highlighted with a red box), and 'Logout'. On the left sidebar, 'Media Server' is also highlighted with a red box. The main content area is titled 'Advanced: Media Server' and contains several sections:

- Change Scan Paths:** A text field shows '/content/media' with a 'Change Scan Paths' button.
- Media Scan Types:** A grid of checkboxes for file formats: jpg, bmp, png, gif, mp3, wma, pcm, mpg, avi, and wmv. A 'Set Types' button is at the bottom right.
- Media Scan Control:** A section with the text 'A media scan can be initiated using this option.' and a 'Start Scan' button.
- Media Scan Details(Previous Scan):** A section showing 'ImageFiles:0 AudioFiles:0 VideoFiles:0 RejectedFiles:0 ScanTime: 0 Seconds'.
- Media Database Controls:** A section showing 'Total number of media items in the database' as '0' and a 'Delete Database' button.

To change this . . .	Do this . . .
Change Scan Paths	Click Change Scan Paths if you want your computer to search for media files which differ from the one currently specified (see step 2).
Media Scan Types	Click on the checkbox of the file types on the list to be included, then click Set Types .
Media Scan Control	Click Start Scan to start scanning.
Media Scan Details (Previous Scan)	Displays the result of the latest scan by showing the total number of image files, audio files, video files, rejected files, and scan time.
Media Database Controls	The Delete Database will delete the playlist.

NOTE: After importing the contents into your NAS system RAID via SAMBA connection, click **Start Scan** again.

2. Upon clicking **Change Scan Paths** the following screen would appear.



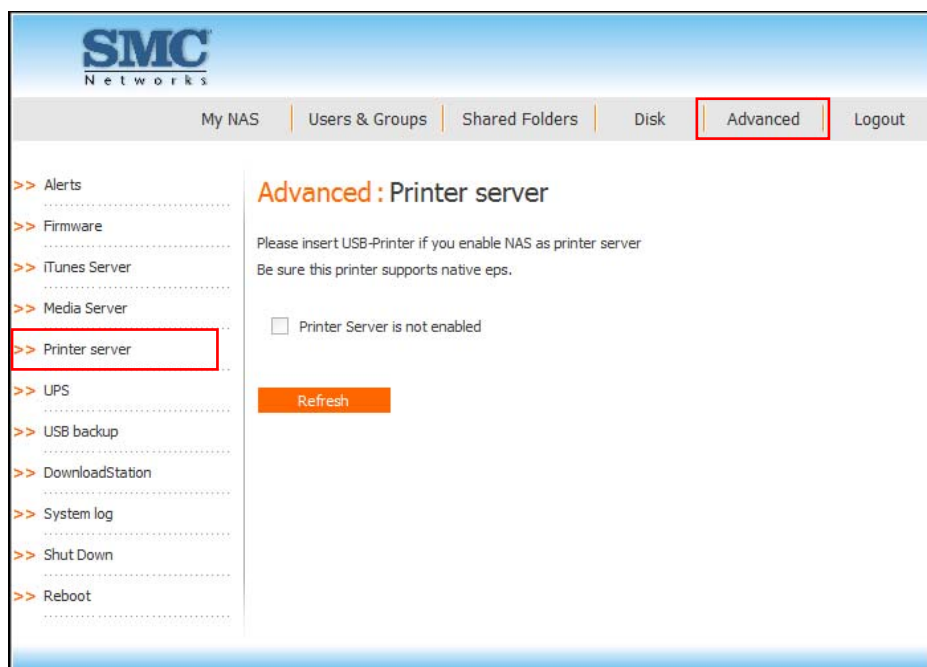
3. Select the desired scan path(s).

4. Click **Apply**.
5. When the confirmation message appears, click **OK** to confirm.

Printer Server

Allow your storage system to function as a printer server when a USB printer is connected.

1. Connect a printer to any USB port on your storage system.
2. Click **Printer Server** on the **Advanced** page and the following screen appears.

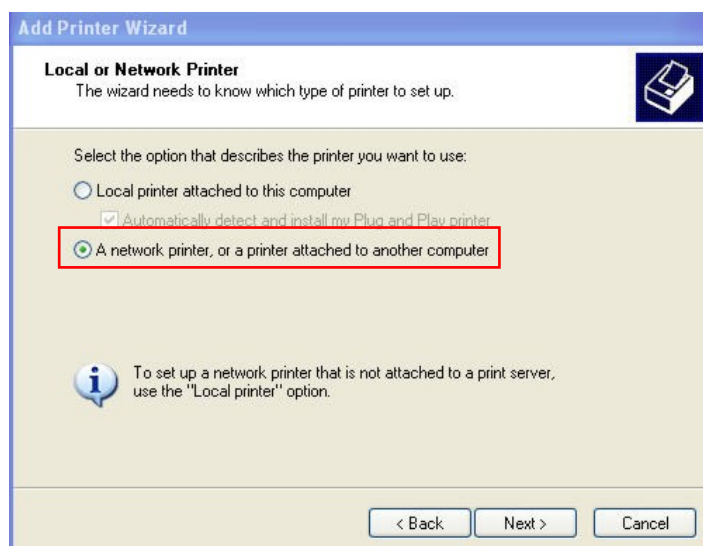


NOTE: A warning message will appear if no USB printer is connected to your storage system.

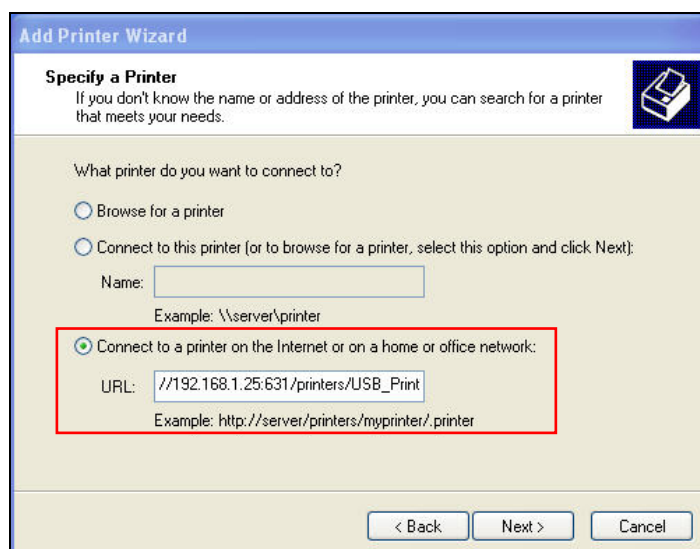
3. Proceed to adding a new printer in Windows and the following screen appears.



4. Click Next and the following screen appears. Select A network printer, or a printer attached to another computer by clicking on the radio button.



5. Click **Next** and the following screen appears. Select **Connect to a printer on the Internet or on a home or office network** by clicking on the radio button.



6. When setting up the USB printer on your computer, you need to check the SMCNAS system's IP address (e.g., **192.168.1.25**). Then, when installing the network printer you have to type the URL like as follows (**http://192.168.1.25:631/printers/USB_Printer**).
7. Click **Next** to continue.
8. When the confirmation message appears, click **OK** to confirm.

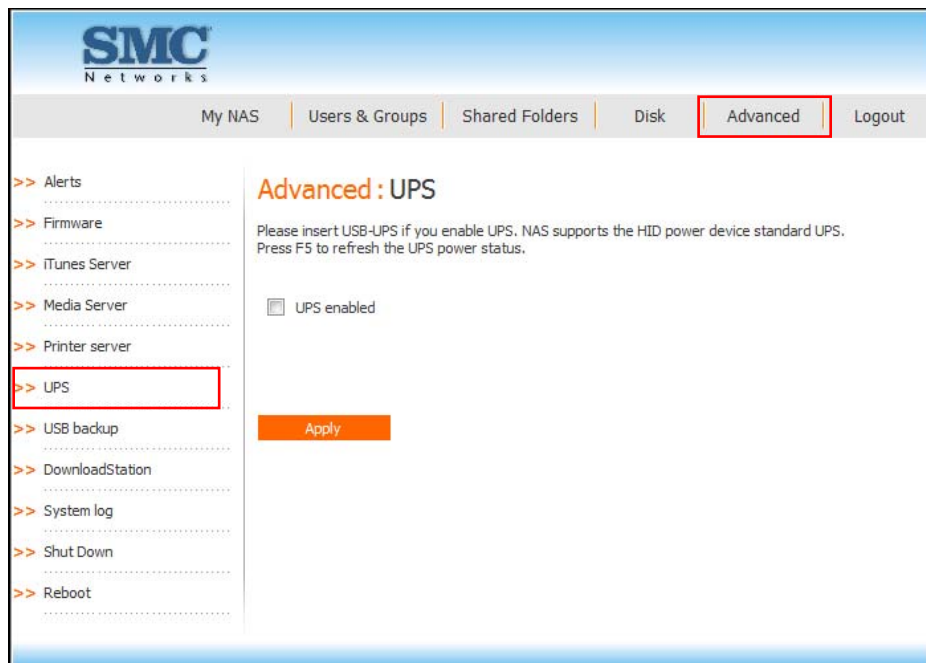
UPS

Allow your storage system to use a USB-UPS as temporary backup power.

1. Connect a USB-UPS to any USB port on your storage system.

NOTE: When using the USB-UPS and the power level is not adequate (power level remaining reaches $\leq 3\%$ of normal charge), an email alert will be sent to inform you to shutdown the storage system immediately.

2. Click **UPS** on the **Advanced** page and the following screen appears.



3. Click the checkbox **UPS enabled**. The **Power status** (amount of backup power available) will be shown.



4. Click **Apply**.
NOTE: A warning message will appear if no USB-UPS is connected to your storage system.
5. When the confirmation message appears, click **OK** to confirm.

USB Backup

Allow you to backup the contents of your USB storage device to your storage system.

NOTE: USB backup supports both FAT32 and NTFS.

1. Click **USB backup** on the **Advanced** page and the following screen appears.

The screenshot displays the SMC Networks web interface. The top navigation bar includes 'My NAS', 'Users & Groups', 'Shared Folders', 'Disk', 'Advanced' (highlighted with a red box), and 'Logout'. The left sidebar lists various system settings, with 'USB backup' highlighted by a red box. The main content area is titled 'Advanced: USB backup' and features a warning icon and message: 'Before eject your usb devices, Please disconnect SAMBA service at first!'. Below this, there are three main configuration sections:

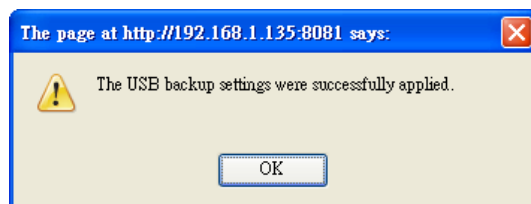
- USB backup to NAS:** Contains an 'Administrator password' text box and an 'Apply' button. This section is enclosed in a red rectangular box.
- Eject your USB:** Includes a dropdown menu set to 'sdb', an 'Administrator password' text box, and an 'Apply' button.
- Criteria of backup available space(%):** Features a text box with '10' entered, an 'Administrator password' text box, and an 'Apply' button.

On the right side of the 'Eject your USB' section, there is a 'USB Device Information' box showing: 'Shared Folder: /content/sdb 1', 'Used/Total Size: 902/980 MB', and 'Vendor: Unknow Vendor'.

2. In the **Administrator password** text box, enter the password.

NOTE: Maximum number of characters is 8. Can include any printable ASCII characters but not (' ').

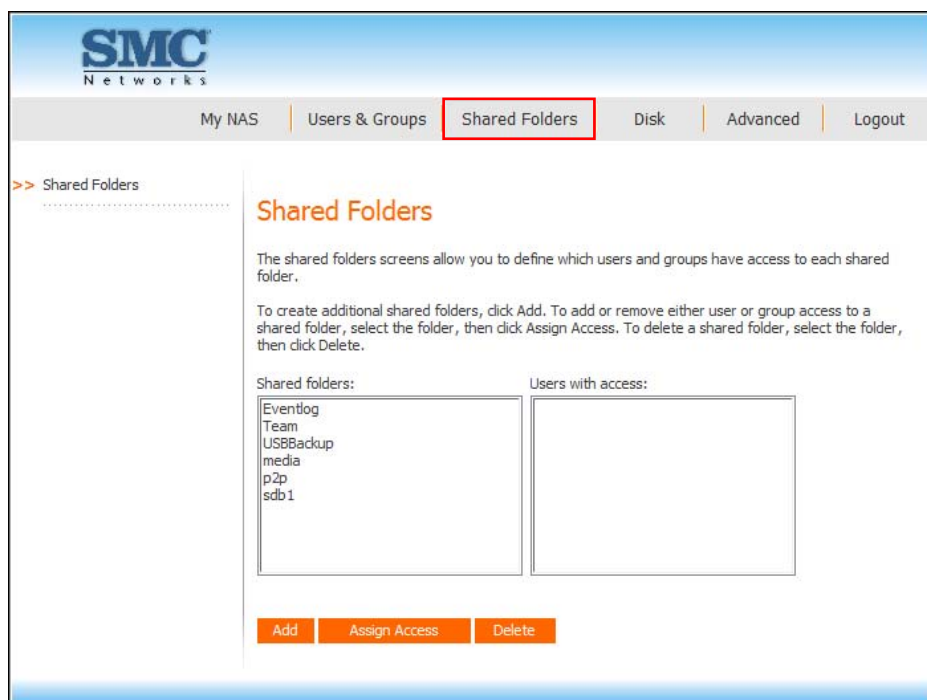
3. Click **Apply**. The backup contents of your USB storage device would be copied to your storage system on a newly created timestamp folder under **/USBBackup/** and the following screen appears.



4. Click **OK**.

NOTE: To access the copied content in the USBBackup folder you need to map a user to the USBBACKUP folder. If you only want to access the shared folder (e.g. sdb1), please continue with step 5.

5. Click **Shared Folders** and the following screen appears.



6. Select the shared folder (e.g. USBBackup or sdb1) and click **Assign Access**. The following screen appears.

The screenshot shows the SMC Networks web interface. At the top is the SMC Networks logo. Below it is a navigation bar with links: My NAS, Users & Groups, Shared Folders (selected), Disk, Advanced, and Logout. The main content area is titled 'Shared Folders' and includes a sub-header '>> Shared Folders'. Below this, a message states: 'Choose the users and groups that should have access to the shared folder, and specify if the user or group should have read-only or read/write access.' A text field labeled 'Shared folder name :' contains the value 'sdb1'. There are four main sections for managing access: 'Authorized groups:', 'Unauthorized groups:', 'Authorized users:', and 'Unauthorized users:'. Each section has a list box and three buttons: '<< Add (Read-Only)', '<< Add (Read/Write)', and 'Remove >>'. The 'Unauthorized users:' list box contains the entries 'guest' and 'test'. At the bottom right of the form are 'Apply' and 'Cancel' buttons.

7. Select the authorized user(s) and grant access right (Read-Only or Read/Write). Then click **Apply**.

The screenshot shows the SMC Networks web interface for configuring shared folders. The top navigation bar includes 'My NAS', 'Users & Groups', 'Shared Folders' (which is the active tab), 'Disk', 'Advanced', and 'Logout'. On the left, a sidebar shows '>> Shared Folders'. The main content area is titled 'Shared Folders' and contains the instruction: 'Choose the users and groups that should have access to the shared folder, and specify if the user or group should have read-only or read/write access.' Below this, the 'Shared folder name' is set to 'sdb1'. There are four list boxes for permissions: 'Authorized groups' (empty), 'Unauthorized groups' (empty), 'Authorized users' (containing 'test | Read/Write'), and 'Unauthorized users' (containing 'guest'). Between the group and user boxes are three buttons: '<< Add (Read-Only)', '<< Add (Read/Write)', and 'Remove >>'. At the bottom right, there are 'Apply' and 'Cancel' buttons.

SMC Networks

My NAS | Users & Groups | Shared Folders | Disk | Advanced | Logout

>> Shared Folders

Shared Folders

Choose the users and groups that should have access to the shared folder, and specify if the user or group should have read-only or read/write access.

Shared folder name :

Authorized groups:

Unauthorized groups:

Authorized users:

Unauthorized users:

<< Add (Read-Only)
<< Add (Read/Write)
Remove >>

test | Read/Write

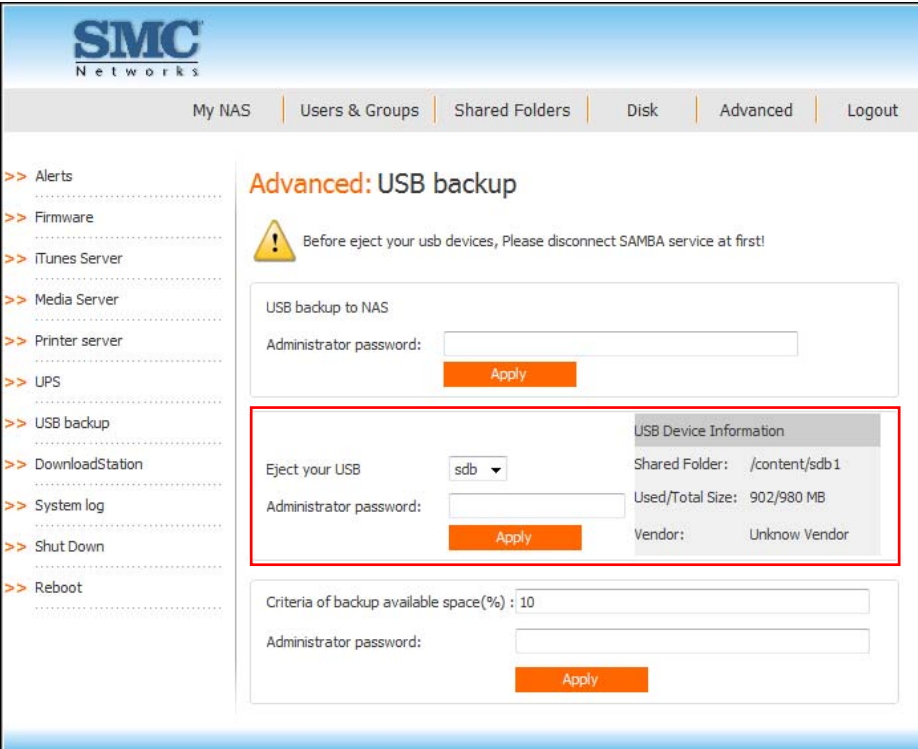
guest

Apply Cancel

Eject USB Storage Device

1. To eject your USB storage device in case it is connected to your storage system, select the USB storage device from the **Eject your USB** dropdown list.

NOTE: Before ejecting the USB device, disconnect the Samba connection first.




SMC Networks

My NAS | Users & Groups | Shared Folders | Disk | Advanced | Logout

>> Alerts
>> Firmware
>> iTunes Server
>> Media Server
>> Printer server
>> UPS
>> USB backup
>> DownloadStation
>> System log
>> Shut Down
>> Reboot

Advanced: USB backup

 Before eject your usb devices, Please disconnect SAMBA service at first!

USB backup to NAS

Administrator password:

Apply

Eject your USB:

Administrator password:

Apply

Criteria of backup available space(%) :

Administrator password:

Apply

USB Device Information

Shared Folder: /content/sdb1

Used/Total Size: 902/980 MB

Vendor: Unknown Vendor

2. Enter the password again.
3. Click **Apply**. You can now remove the USB storage device and the following screen appears.

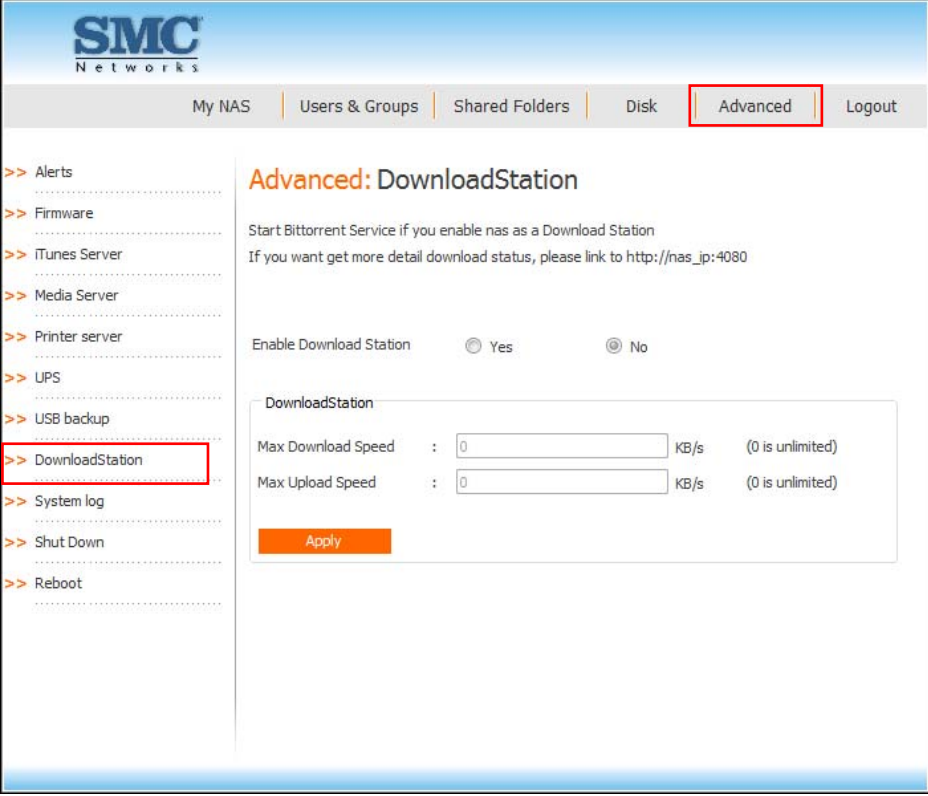


4. Click **OK**.
 5. In the **Criteria of backup available space** textbox, enter the value (MB) to change the allocated disk space for backing up to your storage system. Otherwise do not change it, the default setting of 10 % is suggested.
 6. Enter the password again.
 7. Click **Apply**.
- NOTE:**
- When the total file size is over the limit, the warning message "The disk space is not enough" appears.
 - The **sda** is corresponding to **sda1**, **sdb** is corresponding to **sdb1**, and so forth on the **Eject your USB** section of the **USB Backup** page.

Download Station

Allows peer-to-peer (P2P) download (BitTorrent file transfer protocol) of computer files (**filename.torrent**) from remote location to your storage system. The download task, percent and speed of download, and seed is displayed. You can pause/resume or delete the download anytime.

1. Click **Download Station** on the **Advanced** page and the following screen appears.

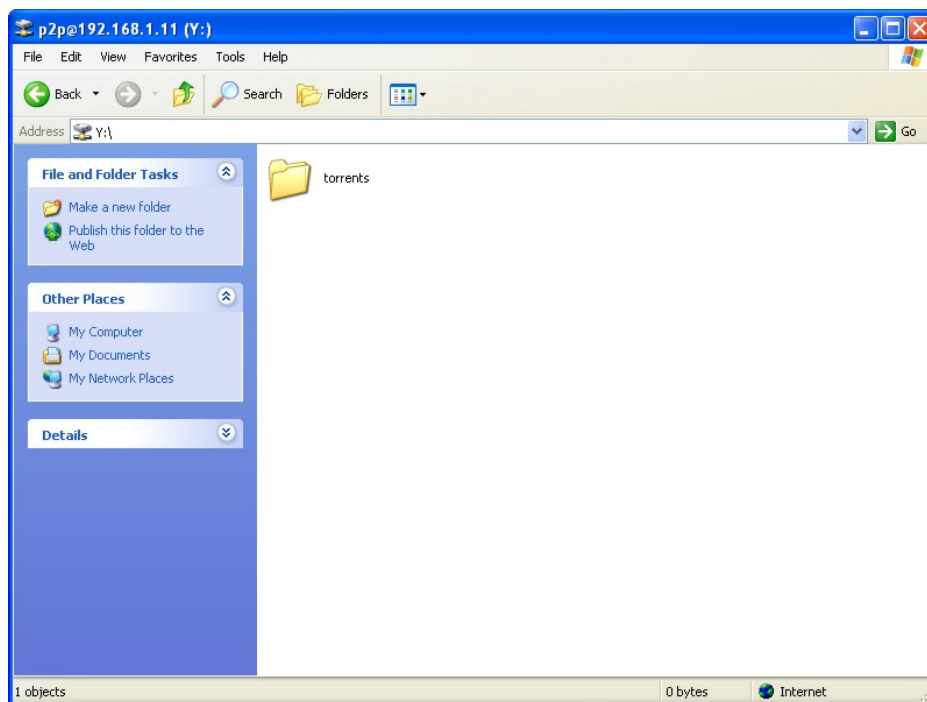


The screenshot shows the SMC Networks web interface. The top navigation bar includes 'My NAS', 'Users & Groups', 'Shared Folders', 'Disk', 'Advanced' (highlighted with a red box), and 'Logout'. On the left sidebar, 'DownloadStation' is highlighted with a red box. The main content area is titled 'Advanced: DownloadStation' and contains the following information:

- Start Bittorrent Service if you enable nas as a Download Station
- If you want get more detail download status, please link to http://nas_ip:4080
- Enable Download Station: ☐ Yes ☒ No
- DownloadStation configuration box:
 - Max Download Speed : KB/s (0 is unlimited)
 - Max Upload Speed : KB/s (0 is unlimited)
 -

2. Create a new user and assign R/W (read/write) permission of shared folder “p2p” to this user.

3. Via Samba connection in “p2p” folder there is a “torrents” folder, place torrents file in it.



4. Click **Yes** to enable the download station.
5. Click **Apply**.
6. Wait for about 20 seconds, then open a new web browser by typing: **http://your_nas_ip:4080**.

NOTE:

- If you do not want to use the default maximum download/upload speed, you can type in the new value.
- Click **Pause/Resume** to pause or resume the download, or **Delete** to remove the download.
- In the “p2p” folder, there is an “incoming” folder. You can view the complete file after downloading via Samba connection.
- If your NAS is behind the router, please open TCP port 6882 to enable download station to speed up downloading.

System Log

Display a list of events that have occurred on the storage system. Reviewing this list can help you identify and resolve any problems that you might encounter.

1. Click **System log** on the **Advanced** page and the following screen appears. The date and time of the event, the type of event (I stands for informational, E stands for error, W stands for warning, and C stands for critical error), and a brief description of the event are displayed.

The screenshot displays the SMC Networks web interface. The top navigation bar includes 'My NAS', 'Users & Groups', 'Shared Folders', 'Disk', 'Advanced' (highlighted with a red box), and 'Logout'. The left sidebar lists various system components, with 'System log' (highlighted with a red box) selected. The main content area is titled 'Advanced: System Log' and contains a table of system events.

Date/Time	Type	Event
Nov 23 14:17:35	I	Administrator logged in.
Nov 23 14:09:42	I	Administrator logged out.
Nov 23 14:01:54	I	System rebooting.
Nov 23 14:00:26	I	Administrator logged in.
Nov 23 12:59:36	I	System shutting down.
Nov 23 12:52:17	I	System shutting down.
Nov 23 12:51:55	I	Administrator logged in.
Nov 22 15:39:51	I	Administrator logged out.

Below the table, a legend states: 'I=Informational, E=Error, W=Warning, C=Critical Error'. At the bottom of the log area, there are four buttons: 'Refresh', 'Delete Current Log', 'Save Current Log', and 'Erase All Logs'.

2. If an event occurs while you are viewing this list, click **Refresh** to update it.

NOTE:

- You can get the previously saved system log file from the "Event Log" shared folder via Samba connection.
- When you click **Refresh** it will refresh the user interface via the web interface.
- When you click **Delete Current Log** it will delete log information in buffer.
- When you click **Save Current Log** it will save log information from buffer to file on default path.

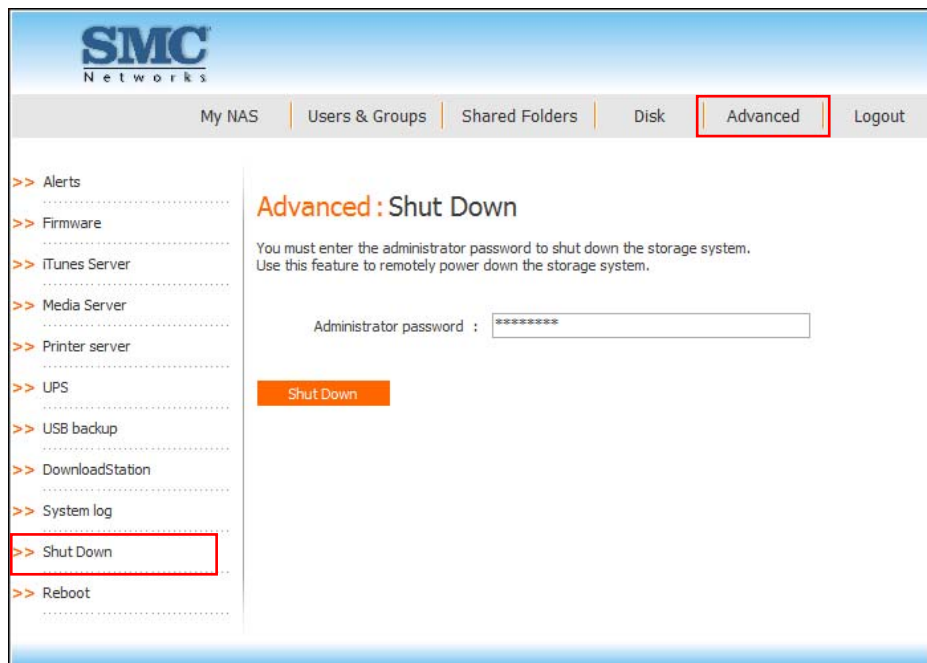
- When you click **Erase All Logs** it will erase all the log files in the system (under the "Event Log" shared folder).

Shut Down

To shut down the storage system, you can press the power button on the unit itself and hold it until the system status and disk activity LEDs start flashing, or you can shut the storage system down remotely by using Storage System Management. To use Storage System Management:

1. Click **Shut Down** on the **Advanced** page and the following screen appears, allowing you to shutdown the storage system.

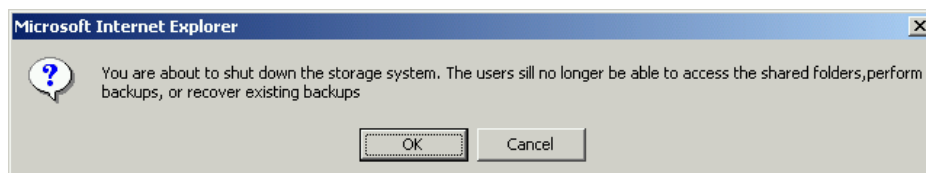
CAUTION: Make sure no one is backing up a disk or using a shared folder before you shut down the storage system.



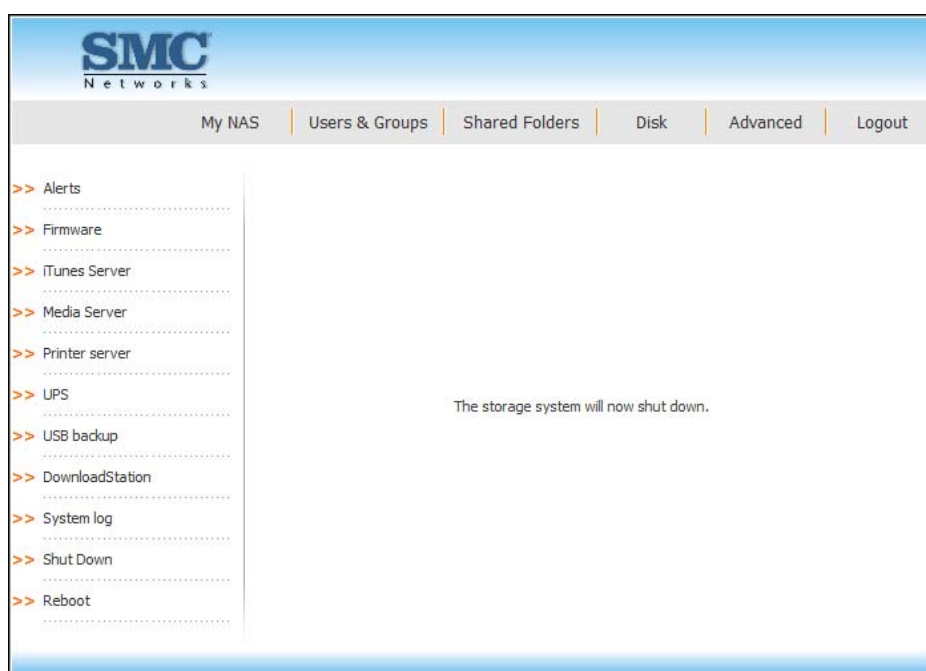
2. Enter the **Administrator password**.

NOTE: Maximum number of characters is 8. Can include any printable ASCII characters but not ('').

3. Click **Shut Down** and the following screen appears. Click **OK** to confirm.



4. A message appears indicating that the system is shutting down.



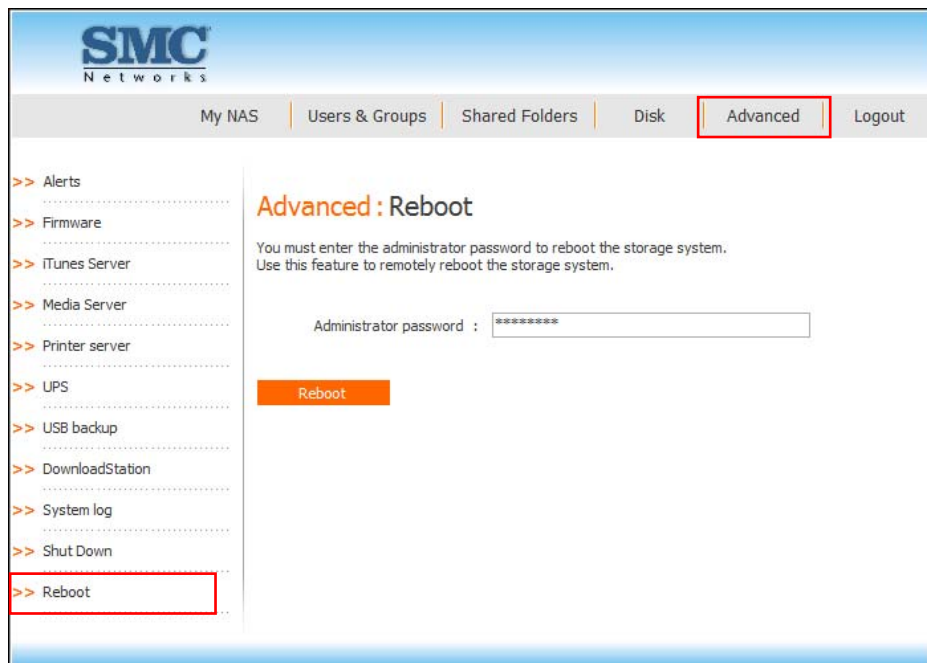
CAUTION: Always shutdown the system in accordance with the instructions above. An improper shutdown may affect the functionality of storage system in the next startup.

Reboot

You can reboot the storage system remotely by using Storage System Management. To use Storage System Management:

1. Click **Reboot** on the **Advanced** page and the following screen appears, allowing you to reboot the storage system.

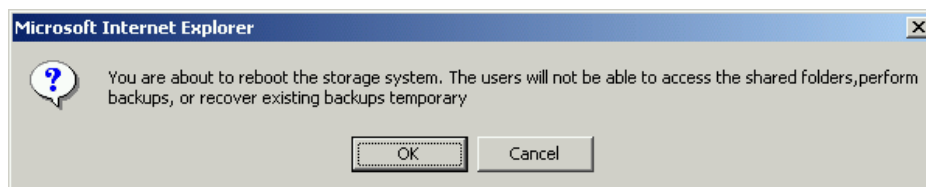
CAUTION: Make sure no one is backing up a disk or using a shared folder before you reboot the storage system.



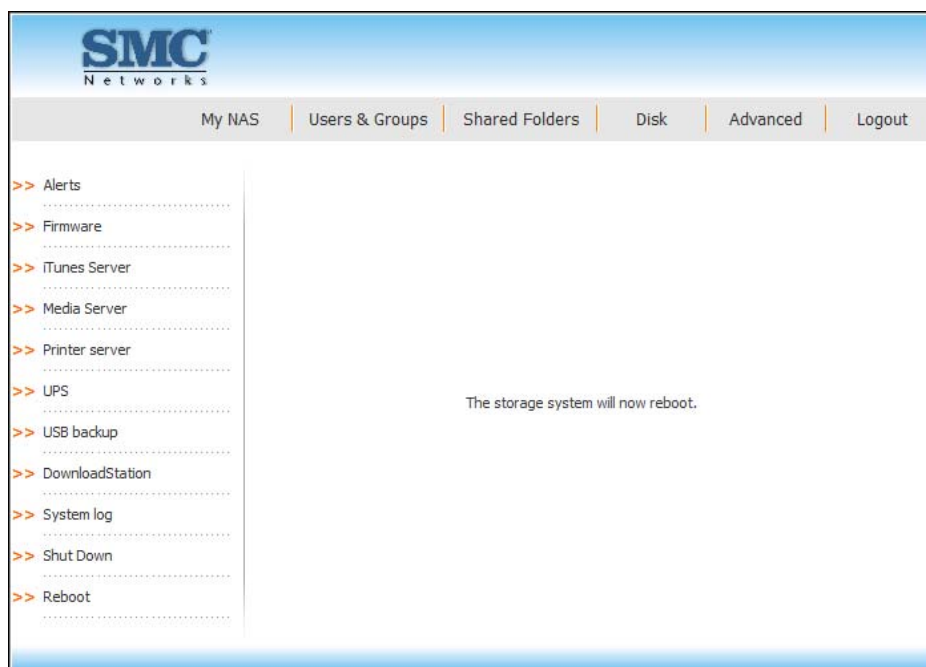
2. Enter the **Administrator password**.

NOTE: Maximum number of characters is 8. Can include any printable ASCII characters but not (').

3. Click **Reboot** and the following screen appear. Click **OK** to confirm.



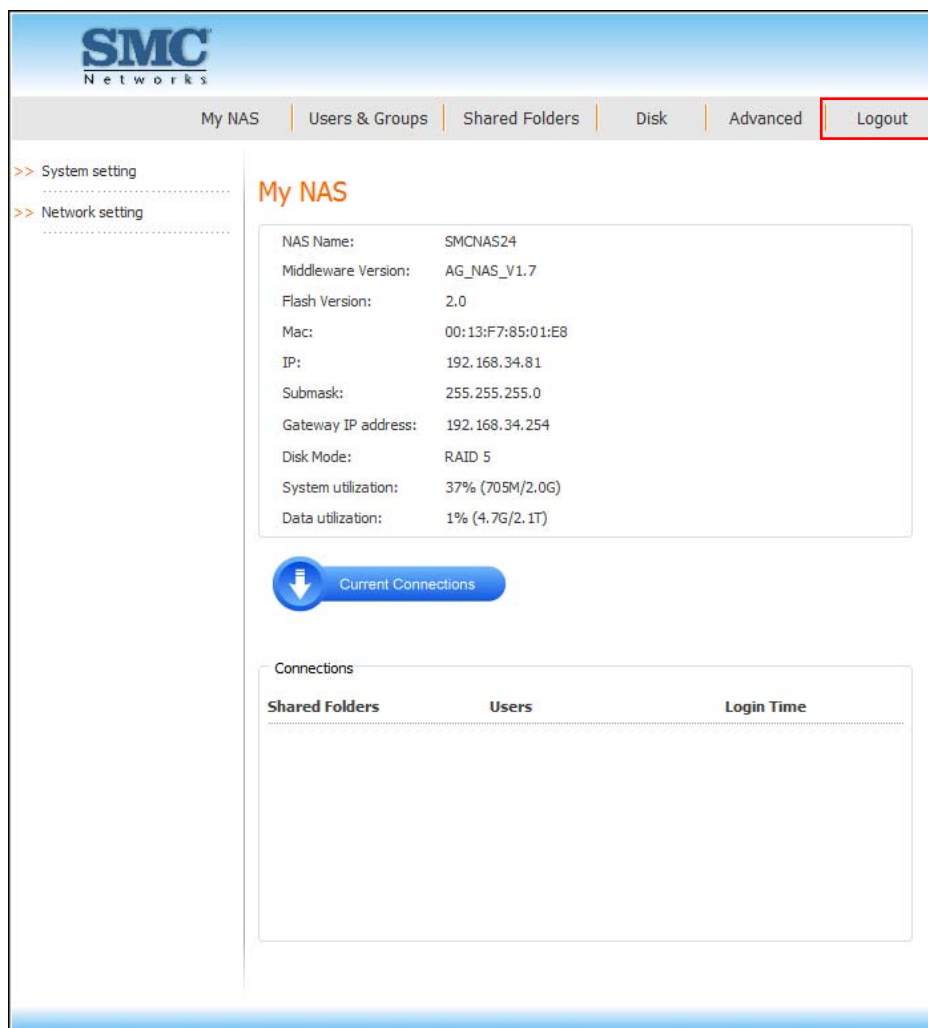
4. A message appears indicating that the system is rebooting.



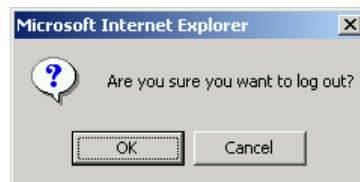
CAUTION: Always reboot the system in accordance with the instructions above. An improper reboot may affect the functionality of storage system in the next startup.

3.8 Logging Out of Storage System Management

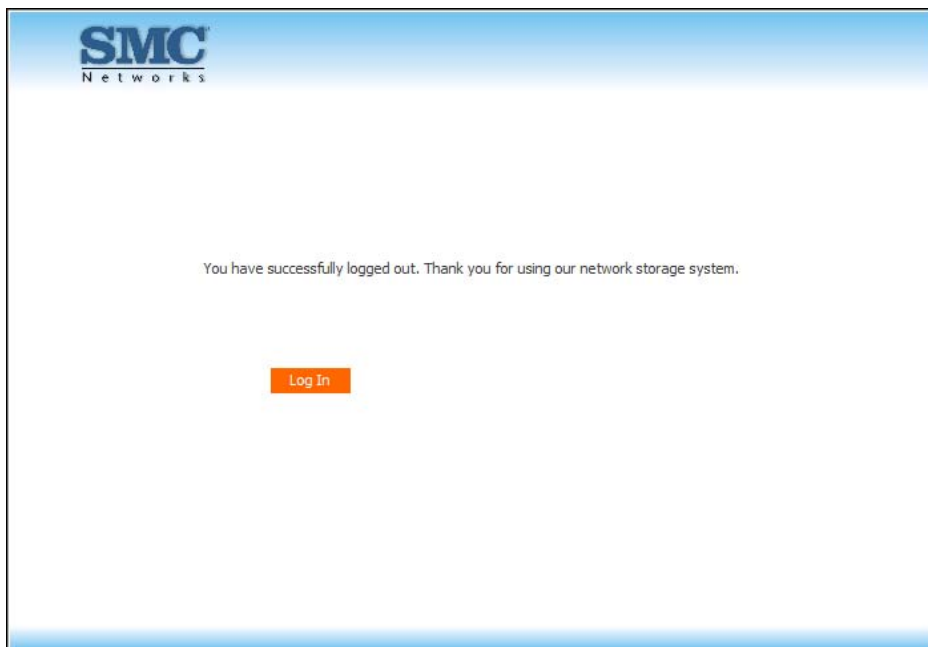
1. To log out from the Storage System Management without shutting it down, click the Logout button.



2. When the confirmation message appears, click OK.



3. The following screen appears. You can allow it to stay in the background and perform other computer task. To use the Storage System Management later, click Log In.



3.9 How to reinstall your SMCNAS04/SMCNAS24

1. Make sure your SMCNAS04/SMCNAS24 uses Flash Firmware v.2.0 or higher. This can be controlled in the MyNas page.
If your Flash Firmware shows a lower version then (v.2.0, please check the manual for Product Firmware v.1.5.8 that you can find on the SMC Website <http://www.smc.com>. It will show you how to reinstall your SMCNAS04/SMCNAS24 with the right procedure.)

The screenshot displays the SMC Networks web interface. At the top, the SMC Networks logo is on the left, and a navigation bar contains links: My NAS, Users & Groups, Shared Folders, Disk, Advanced, and Logout. On the left side, there is a sidebar with 'System setting' and 'Network setting' options. The main content area is titled 'My NAS' and contains a box with system information. In this box, the 'Flash Version' is highlighted with a red rectangle and shows '2.0'. Other information includes NAS Name (SMCNAS24), Middleware Version (AG_NAS_V1.7), Mac (00:13:F7:85:01:E8), IP (192.168.34.81), Submask (255.255.255.0), Gateway IP address (192.168.34.254), Disk Mode (RAID 5), System utilization (38% (714M/2.0G)), and Data utilization (1% (4.8G/2.1T)). Below this box is a blue button with a download icon and the text 'Current Connections'. At the bottom, there is a 'Connections' section with a table header: Shared Folders, Users, and Login Time.

Shared Folders	Users	Login Time
----------------	-------	------------

2. Please make a Backup of all the Data you have stored on the SMCNAS04/SMCNAS24!
3. After this, please shutdown your SMCNAS04/SMCNAS24.
4. Once the unit has shutdown, please make sure the power is off.
5. Take out all disks and follow the instructions in the chapter “System Power-on Without Hard Disk”.

Important: Please keep in mind that this process will format your SMCNAS04/SMCNSA24 and all data will be lost. So please make sure to Backup all Data on your SMCNAS04/SMCNAS24 first!

Chapter 4 Map Shares


Windows PC

Your Storage System Management allows you to map shared folders.

To map shared folders:

1. From the NAS Discovery tool, click the Click to Map under the MAP Shares column to map shared folders.

For JAVA-based



Num	FriendlyName	IP Address	MAC Address	Software Version	Configuration URL	Status	MAP Shares
1	SMCNAS04	192.168.34.81	00:13:f7:85:01:e8	AG_NAS-V1.7	Click to Configure NAS	Available	Click to Map

For non-JAVA based

[illegible]

2. The following screen appears. Key in the appropriate information and click Map.

- **NAS Samba Share:** allows you to select which shared folder to connect
- **User Name/Password:** the shared folder of what you selected

Note: When AD domain is selected, the user name must be [Domain name] \[user name]

3. "Mapping Success..." will be shown on the left lower part of the screen upon completion.

4. Click **Exit** to exit mapping of shared folders.

For Apple Mac OS X

To map a Samba Share on an Apple Computer with Mac OS X, please follow the below steps to map a Share:

1. Click the **Finder** icon in the Dock of your Mac OS X desktop.
2. Choose **Connect to Server** from the **Go** menu.
3. In the address field of the **Connect to Server** dialog, type the URL using this syntax:

smb://NASIP/Sharefolder/

(Where **NASIP** is the IP address currently used by your SMCNAS02 and **Sharefolder** needs to be replaced by the name of share you want to map).

4. Click **Connect**.

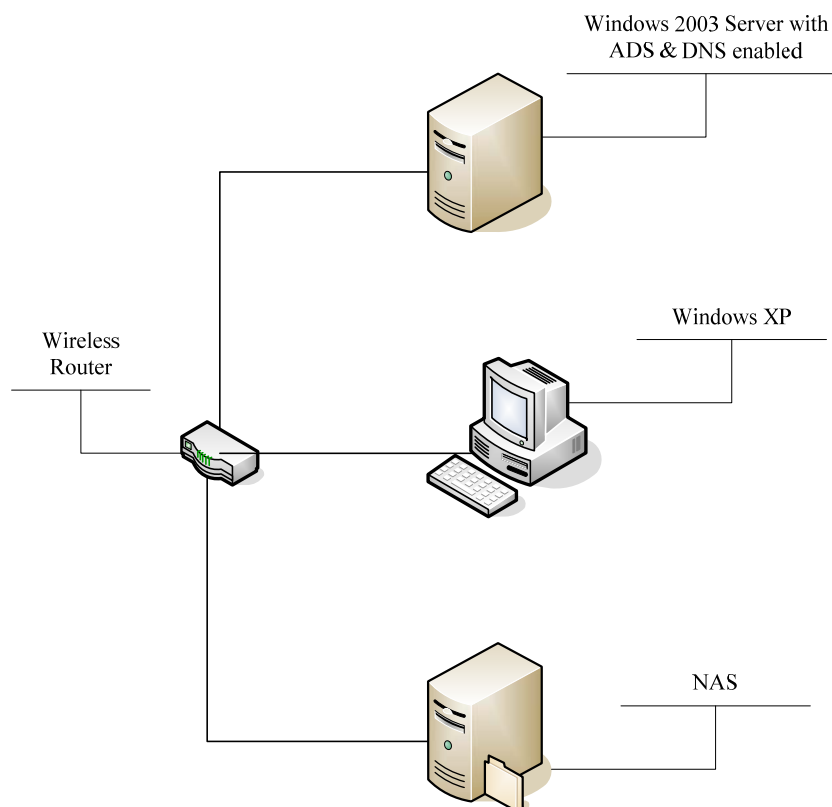
Type in the **Username** and **Password** that is assigned to the Shared Folder you want to map.

Chapter 5 AD support

NOTE:

- The time between the ADS's and the Samba server must be in sync (use NTP). The easiest way to achieve this is to add the IP of the ActiveDomain server as the NTP time server. Then the SMCNAS will sync its time with the AD server. But make sure your AD Server does synchronize its time with a failed NTP server and runs the NTP Server service itself.
- If AD domain is selected, user cannot use the local user account to login to NAS.
- "~", "!", "#", "\$", "%", "^", "&", "(", ")", "-", "{", "}", ".", ":", " ", and space can be included in AD account.

Environment Setup



At Router Portion

DNS must be specified to the Windows 2003 server.

At Windows XP Portion

- You must renew IP after the router's DNS is changed (the purpose is get the DNS server)
- Join the domain of Windows 2003 server
- Login via AD user account

At NAS Portion

You must renew the IP after the router's DNS is changed (the purpose is get the DNS server).



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http://www.smc.com/index.cfm?action=tech_support_drivers_downloads

World Wide Web

<http://www.smc.com/>

**SMCNAS04/
SMCNAS24**