



# USER GUIDE

**SMCNAS04/  
SMCNAS24**

**TigerStore™  
SMB Network Attached Storage Server**

# **SMCNAS04 / SMCNAS24**

## **User's Guide**

March 2007

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**NOTE**

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

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## 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 100~127 / 200~240 Vac. Device could be damaged when the Voltage Switch is at the wrong position.
- Maximum operating ambient temperature 40 °C degree

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## Model Information

Before accessing SMCNAS04 / SMCNAS24, please download JAVA Runtime Environment (JRE) 6 “[jre-6-windows-i586.exe](http://java.sun.com/javase/downloads/index.jsp)” (click the link <http://java.sun.com/javase/downloads/index.jsp>) and install through your computer first. Otherwise, the NASDiscovery tool will not work.

- **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 (3.2 of Chapter 3), or if you wish to change the preferred RAID configuration click on “Back to Zero Disk” on the “Advanced” page of the NAS Discovery Tool and follow the instructions (3.7 of Chapter 3).

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## ***Chapter 1 Introduction***

Your SMCNAS04 / SMCNAS24 is a storage solution for small and medium business and home network environments. With its 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 storage system can accommodate up to four hard disks with standard RAID 0, 1, 4, 5, and JBOD (future option) in BIG configurations, providing up to 3 TB (terabytes) of shared network storage. Supporting industry-standard protocols, you can easily add your storage device into your existing network. In addition, network management and security are extremely simplified through the Web-based User Interface (UI).

Additional features include:

- RAID Mode
- RAID Degraded
- RAID Rebuild
- Quota Management
- HW (hardware) Health Monitor
- UPS (uninterruptible power supply)
- Reset to Factory Default Setting
- Backup
- Event Log
- Media Server
- Multi-language (future option)
- Software Shutdown by using Storage System Management
- 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 Installation Guide
- Warranty Card

## 1.2 Specifications

**NOTE:** Specifications are subject to change without notice.

### Hardware

**Cabinet Form Factor**

Small Tower

**Processor**

Agere 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**

Using 750 GB drives provides up to 3.0 TB

**USB-UPS Support**

HID power device standard

**Network**

Auto 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
- UNIX/Linux (future option)
- Macintosh (future option)

**Network Protocol**

- TCP/IP
- HTTP
- FTP
- SMB/CIFS
- NFS (future option)

**RAID Migration** (future option)**RAID Expansion** (future option)**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**

JBOD in BIG (future option), RAID 0/1/4/5

**Application for NAS Management**

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

**Support Browser :**

- Internet Explorer 6.0
- Firefox 2.0


**Others**

- English language support
- Simplified Chinese / Traditional Chinese / Japanese / German / French / Italian / Spanish language support (future option)
- 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

## 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 the outlet but storage system is at standby situation).

<b>Ref</b>	<b>Component</b>	<b>Description</b>	
<b>③</b>	<b>Network Indicator</b>	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.	
<b>④</b>	<b>RAID Indicator</b>	Shows the current RAID status.	
		<b>RAID</b>	Glows blue to indicate RAID function is implemented.
			Blinks blue to indicate RAID function is rebuilding the hard disk drive.
	<b>DIAG</b>	Glows red to indicate RAID function is inactive or malfunctioning.	
<b>⑤</b>	<b>Hard Disk Drive Compartment</b>	Contains four hard disk drive slots.	
<b>⑥</b>	<b>Disk Information Indicator</b>	Shows the current hard disk drive status.	
		<b>STATUS</b>	Glows blue to indicate hard disk drive/s is standby.
			Blinks blue to indicate hard disk drive/s read/write function.
	<b>DIAG</b>	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.

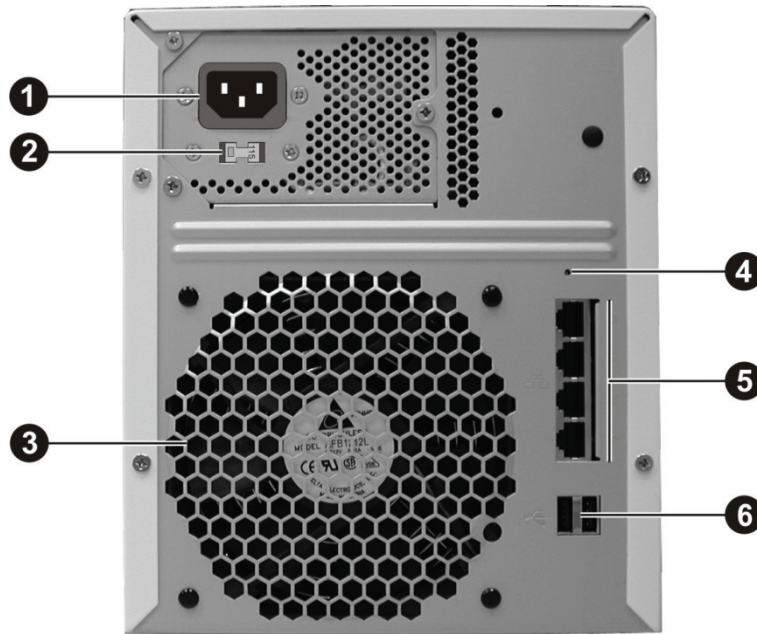




## Left-Side Components



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

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## 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 first, 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 four screws from each side of the hard disk tray and remove the metal bracket.



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

5. Fit the hard disk into the tray where the connectors facing toward the rear. Then align and fasten four screws for fixing the hard disk in the tray.



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 be clicked into place.



7. Repeat the procedures above for installing another hard disk(s) in the other compartment(s).

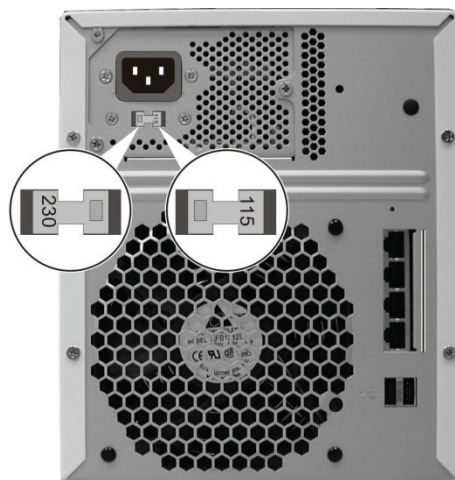
## Step 2. Connect to the Network

1. Make sure that the computer, which you will install and perform Storage System Management, is powered off and connected to the network hub.
2. Make sure that the network hub is powered off.
3. 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 the network hub.

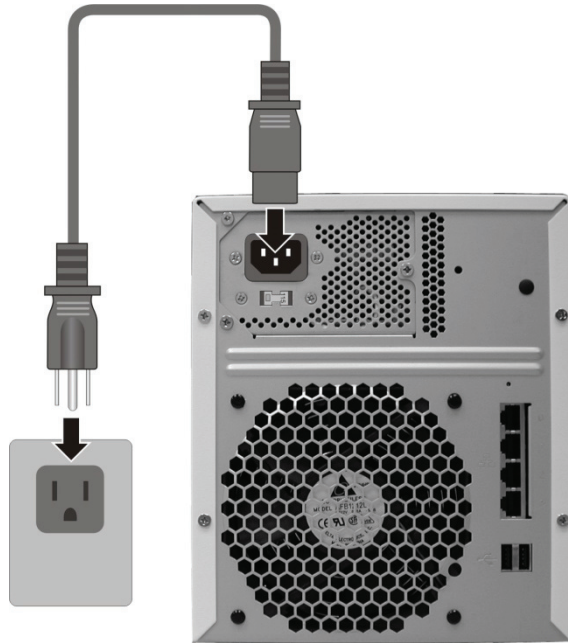


### Step 3. Connect to Power

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.



4. Power on your network hub.
5. Power on your computer.

## ***Step 4. Configure Your Storage System***

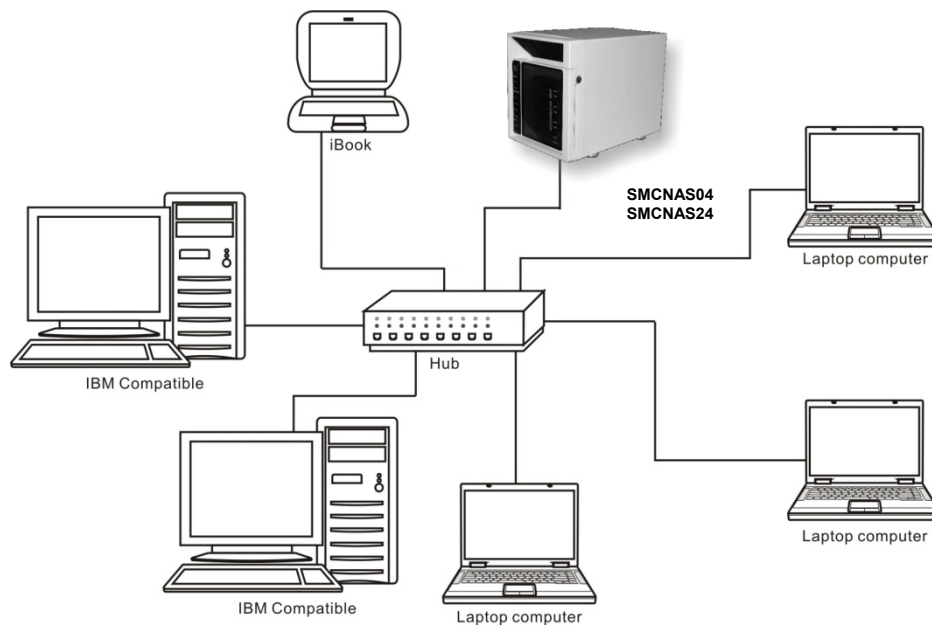
See the next chapter for software configuration instructions.



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## Chapter 3 Configuring Your Storage System

You have to install at least one hard disk (lowest level tray) before your storage system can provide services.



A network consists of your storage device, computer for Storage System Management, and several clients connected via network links.

### 3.1 Installing the Storage System Management

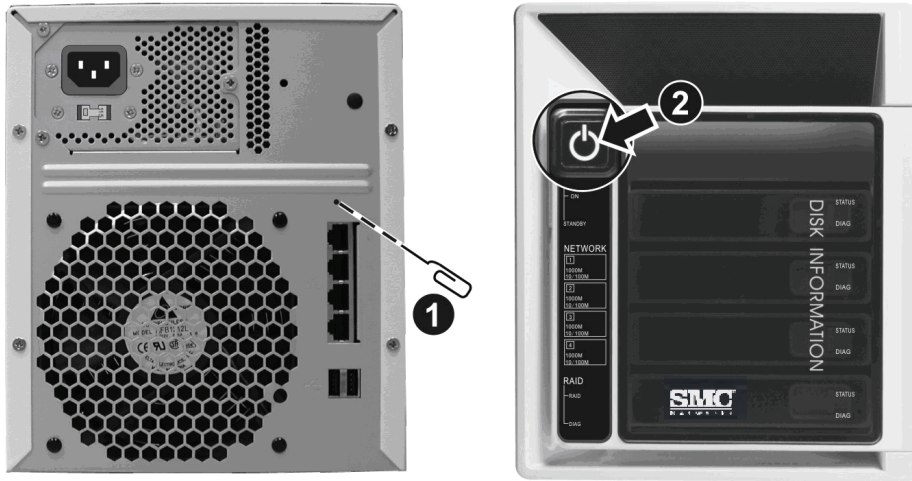
You need to install **Storage System Management** before you can perform any system configurations.

**| NOTE:** Make sure that your storage device is powered off.

1. Copy the contents of the Utility disc to your computer.
2. Double-click “**jre-6-windows-i586.exe**” to install JAVA Runtime Environment (JRE) 6 on your computer. Click on the link to download thru your browser  
**<http://java.sun.com/javase/downloads/index.jsp>**
3. Double-click  
“**x:\NASDiscoveryUtility\NASDiscovery.html**” (where “**x**” is the drive that you have copied **NASDiscoveryUtility** on your computer). The following screen appears.



- Press the Reset switch (❶) by inserting a small rod such as straightened paperclip and press the Power button (❷) on your storage device at the same time. You can only release the Reset switch after the blue RAID indicator (RAID) blinks (may take 15~20 seconds).



- Wait for a while (approximately 3~5 minutes) until the following screen appears. Click “Click to Configure RAID Profile” under the “Configuration URL” column.

SMC Networks

Network Attached Storage Discovery Utility Available Firmware Version: AG\_NAS-2.7.0.0309

Num	FriendlyName	IP Address	MAC Address	Software Version	Configuration URL	Status	Upgrade	MAP Shares
1	(none)	192.168.1.102	00:40:d0:8a:27:aa	Zero-Disk	<a href="#">Click to Configure RAID Profile</a>	Available	<a href="#">Click to Upgrade</a>	-

- The following screen appears. Change the RAID configuration by clicking the radio button of the available RAID configuration on the “CHANGE TO” column under “RAID Profiles,” then click “CHANGE.”

The screenshot shows the 'Network Attached Storage Configuration Server' interface. It features a blue header with a green and blue wave graphic. Below the header, there is a section for 'DISK DETAILS' and a 'RAID Profiles' section.

**DISK DETAILS**

BAY	MODEL	SERIAL	TOTAL SIZE	AVAILABLE SIZE
0	ST3160812AS	4LS11LKA	149.3 GB	149.3 GB
1	ST3160812AS	4LS0Q66S	149.3 GB	149.3 GB
6	ST3160811AS	5PT02RS0	149.3 GB	149.3 GB

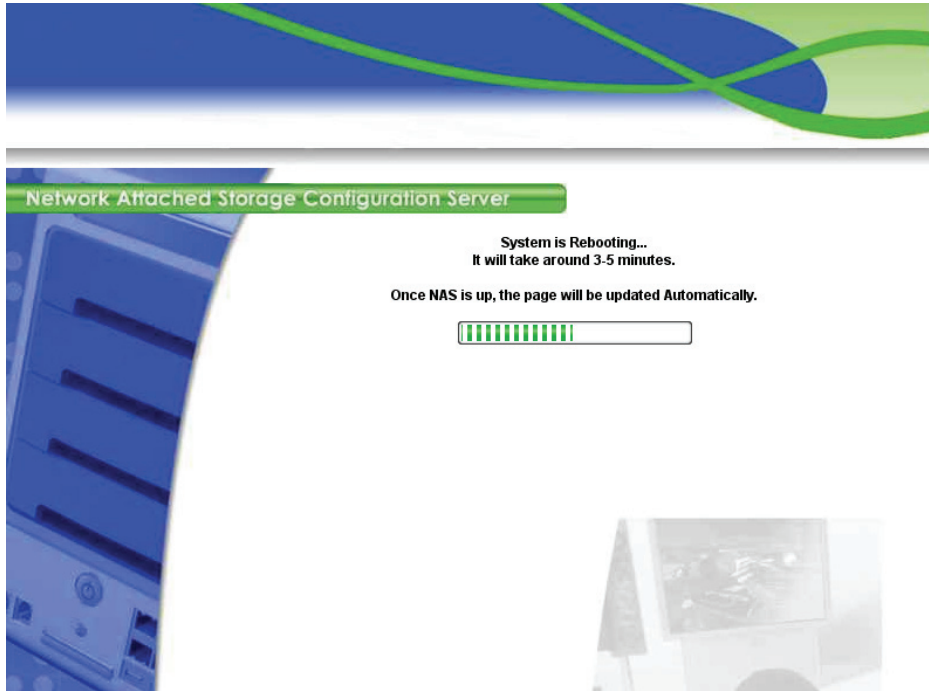
**RAID Profiles**

**If you want the Raid Type different from current setting. Please select one and click Change button to change it. After that, you have to reboot again.**

**RAID PROFILES**

PROFILE	NUMBER of DISKS	RAID TYPE (Current setting)	STATUS	SIZE	CHANGE TO	
0	3	RAID-5	None	298.6 GB	<input type="radio"/> RAID 0 <input type="radio"/> RAID 4	CHANGE

7. The following screen appears.



8. Double-click “x:\NASDiscoveryUtility\NASDiscovery.html” again and the following screen appears. Wait for approximately five minutes.

Num	FriendlyName	IP Address	MAC Address	Software Version	Configuration URL	Status	Upgrade	MAP Shares
1	(none)	192.168.1.102	00:40:d0:8a:27:aa	Zero-Disk	-	Not Available	-	-

9. When the following screen appears, click “Click to Upgrade” under the “Upgrade” column. It will show “Will start soon” to signify the start of the upgrade process.

Num	FriendlyName	IP Address	MAC Address	Software Version	Configuration URL	Status	Upgrade	MAP Shares
1	(none)	192.168.1.102	00:40:d0:8a:27:aa	Zero-Disk	<a href="#">Click to Configure RAID Profile</a>	Available	<a href="#">Click to Upgrade</a>	-

10. The “**Upgrade**” column will show various stages of the upgrade process:

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

11. When the upgrade process is done, the following screen appears and the “**Upgrade**” column would show “**Upgrade Done: Rebooting.**”



The screenshot shows the SMC Networks Network Attached Storage Discovery Utility interface. At the top left is the SMC Networks logo. Below it is a green bar with the text "Network Attached Storage Discovery Utility". To the right of this bar, it says "Available Firmware Version: AG\_NAS-2.7.0.03091". Below the bar is a table with the following columns: Num, FriendlyName, IP Address, MAC Address, Software Version, Configuration URL, Status, Upgrade, and MAP Shares. The table contains one row of data with the following values: Num: 1, FriendlyName: (none), IP Address: 192.168.1.102, MAC Address: 00:40:d0:8a:27:aa, Software Version: Zero-Disk, Configuration URL: -, Status: Upgrading, Upgrade: Upgrade Done: Rebooting..., and MAP Shares: (empty). The "Upgrade" cell is highlighted with a red border.

Num	FriendlyName	IP Address	MAC Address	Software Version	Configuration URL	Status	Upgrade	MAP Shares
1	(none)	192.168.1.102	00:40:d0:8a:27:aa	Zero-Disk	-	Upgrading	Upgrade Done: Rebooting...	

12. When the following screen appears, click “**Click to Configure NAS**” under the “**Configuration URL**” column to log in Storage System Management. Proceed to the next section on performing Storage System Management.

Num	FriendlyName	IP Address	MAC Address	Software Version	Configuration URL	Status	Upgrade	MAP Shares
1	SMCA04	192.168.1.102	00:40:d0:8a:27:aa	AG_NAS-2.6.D-v0.1	<a href="#">Click to Configure NAS</a>	Available	Up-to-date	<a href="#">Click to Map</a>

**NOTE:** About the function of “**Click to Map**” under the “**MAP Shares**” column, please refer to “**Chapter 4 MAP SHARES.**”



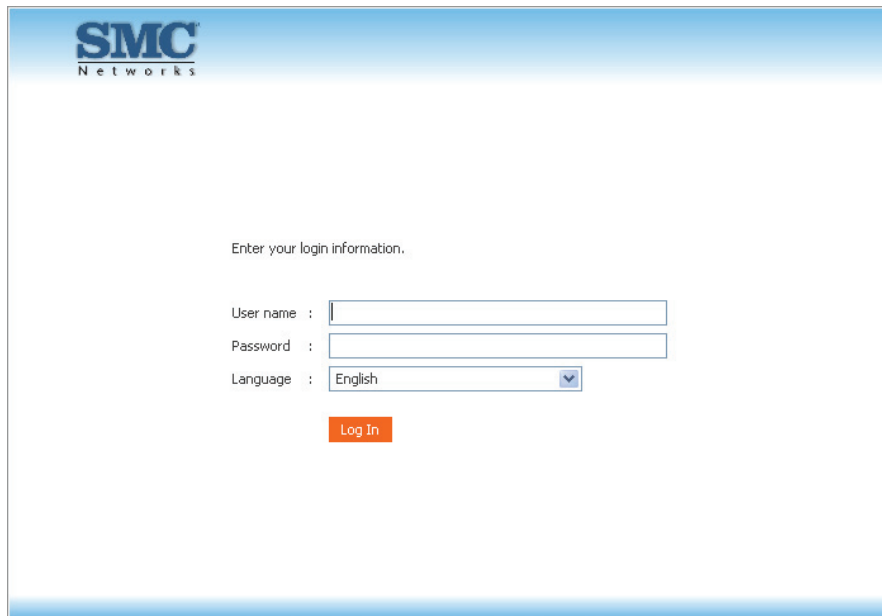
### 3.2 Starting Storage System Management

**NOTE:** Click the “**x**: \NASDiscoveryUtility\NASDiscovery.html” (where “**x**” is the drive that you have copied NASDiscoveryUtility on your computer), when the following screen appears, click “**Click to Configure NAS**” under the “**Configuration URL**” column to log in the Storage System Management.



To perform system management using the Storage System Management:

1. As soon as you start Storage System Management, the system automatically scans the network for storage systems. This might take a few minutes. The following screen appears.



SMC  
Networks

Enter your login information.

User name :

Password :

Language : English

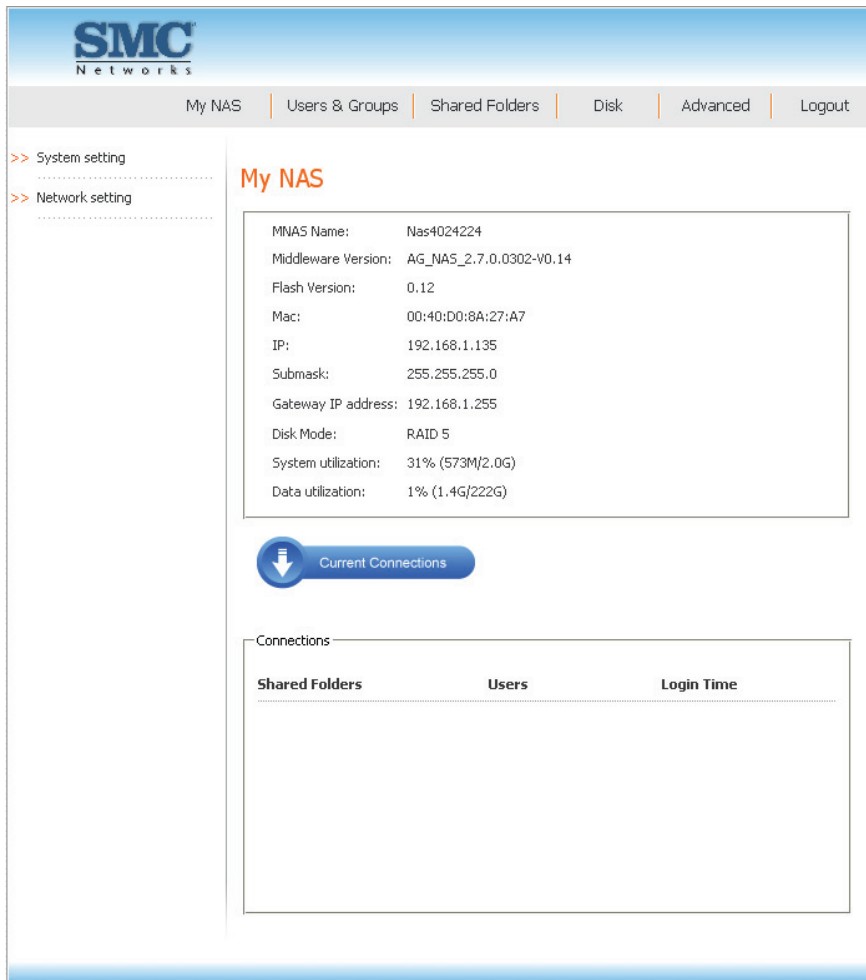
2. Enter the default **User name** “**admin**” and the default **Password** “**smcadmin**” then select the desired language.
3. Click “**Log In.**” The Storage System Management homepage, contains six tabs namely, **My NAS**, **Users & Groups**, **Shared Folders**, **Disk**, **Advanced**, and **Logout**, would appear.

### 3.3 My NAS Page

Display a list of your storage system information (MNAS name, flash and middleware version, MAC and IP address, subnet mask, gateway IP address, and disk mode) , system utilization , data utilization, and current connections (shared folders, users, and login time).

System utilization: show current system data partition usage

Data utilization: show current the data partition usage



The screenshot displays the SMC Networks web interface. At the top, the SMC Networks logo is visible. Below it is a navigation bar with links for 'My NAS', 'Users & Groups', 'Shared Folders', 'Disk', 'Advanced', and 'Logout'. The main content area is titled 'My NAS' and contains a list of system information:

MNAS Name:	Nas4024224
Middleware Version:	AG_NA5_2.7.0.0302-V0.14
Flash Version:	0.12
Mac:	00:40:D0:8A:27:A7
IP:	192.168.1.135
Submask:	255.255.255.0
Gateway IP address:	192.168.1.255
Disk Mode:	RAID 5
System utilization:	31% (573M/2.0G)
Data utilization:	1% (1.4G/222G)

Below the system information is a blue button labeled 'Current Connections' with a downward arrow icon. Underneath this button is a section titled 'Connections' which contains a table with the following headers:

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

## System Setting

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

On the “My NAS” page, click “System setting” and the following screen appears.

**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 :

Date :  /  /  (Month / Day / Year)

Time :  :  :  (Hour : Minute : Second)

Time zone :

NTP server name or IP address :

**Administrator login**

Administrator name :

Password :

Confirm password :

The password cannot exceed eight characters. Administrator can not exceed 15 characters.

**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 . . .
<b>Storage system name</b>	Enter the new name for the specific storage system. The name can be up to 15 characters long, including characters of letters, numbers, and hyphens.
<b>Date, Time, Time zone</b>	In the <b>Date</b> fields, enter or select the month, day, and year. In the <b>Time</b> fields, enter or select the hour, minute, and second. Use the <b>Time zone</b> drop-down bar to select the time zone.
<b>NTP server name or IP address</b>	Enter the name or IP address of the Network Time Protocol server from which the storage system should adjust its time. You can use an NTP server name only if it is resolvable/recognizable.
<b>Administrator name Password Confirm password</b>	In the <b>Administrator name</b> field, enter the administrator name for logging in to the Storage System Management. In the <b>Password</b> and <b>Confirm password</b> fields, enter the password for logging in to the Storage System Management. The administrator name and password are case-sensitive.

1. After making the necessary changes, click “**Apply**.”
2. When the message of confirmation 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.

1. Click “**Network setting**” and the following screen would appear.

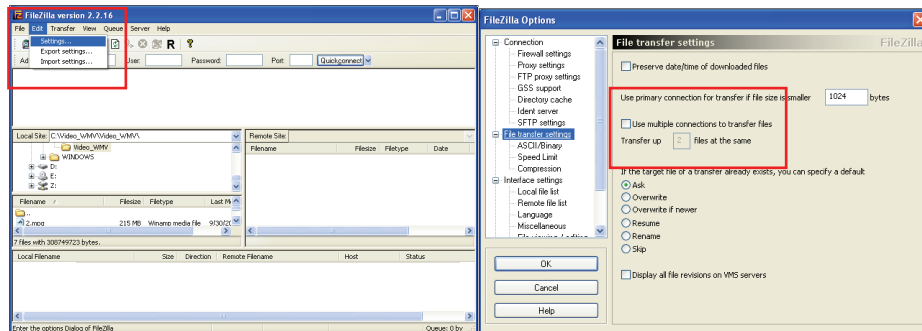
The screenshot shows the SMC Networks web interface for configuring network settings on a My NAS device. The top navigation bar includes 'My NAS' (highlighted with a red box), 'Users & Groups', 'Shared Folders', 'Disk', 'Advanced', and 'Logout'. On the left sidebar, 'System setting' and 'Network setting' (highlighted with a red box) are listed. The main content area is titled 'My NAS: Network setting' and contains the following elements:

- An information icon with the text: 'Groupname can not exceed 15 characters.'
- A 'Workgroup name:' field containing the text 'MNAS'.
- A section for 'Port 1' containing:
  - MAC address: 00:40:D0:8A:27:A7
  - Radio buttons for 'Get an IP address automatically' (selected) and 'Use this IP address:'.
  - Fields for 'IP address', 'Subnet mask', and 'Gateway IP address', each with four input boxes.
  - A 'DNS server settings' section with a 'DNS server' field containing the IP address 10.88.0.36.
- An 'FTP server settings' section with a checkbox for 'Enable FTP server'.
- An orange 'Apply' button at the bottom.

To change this . . .	Do this . . .
<b>Workgroup name</b>	Enter the new name for the specific workgroup. The name can be up to 15 characters long, including characters of letters, numbers, and hyphens.
<b>Get an IP address automatically</b>	If you have a DHCP server on your network, the server can get its IP address from that DHCP server automatically.
<b>Use this IP address IP address Subnet mask</b>	If you do not have a DHCP server, you have to specify an IP address, subnet mask, gateway IP address, and DNS server.
<b>Enable FTP server</b>	Allow your storage device to perform as an FTP server, and suggests to download data transfer tool at <a href="http://filezilla.sourceforge.net/">http://filezilla.sourceforge.net/</a>

2. After making the necessary changes, click “**Apply**.”
3. When the message of confirmation appears, click “**OK**” for the changes to take effect.

**REMINDER:** If you are using Filezilla as your FTP data transfer tool, please follow the setting NOT to enable the function of “Use multiple connections to transfer files”, or if you are not using Filezilla, please also refer to the setting.

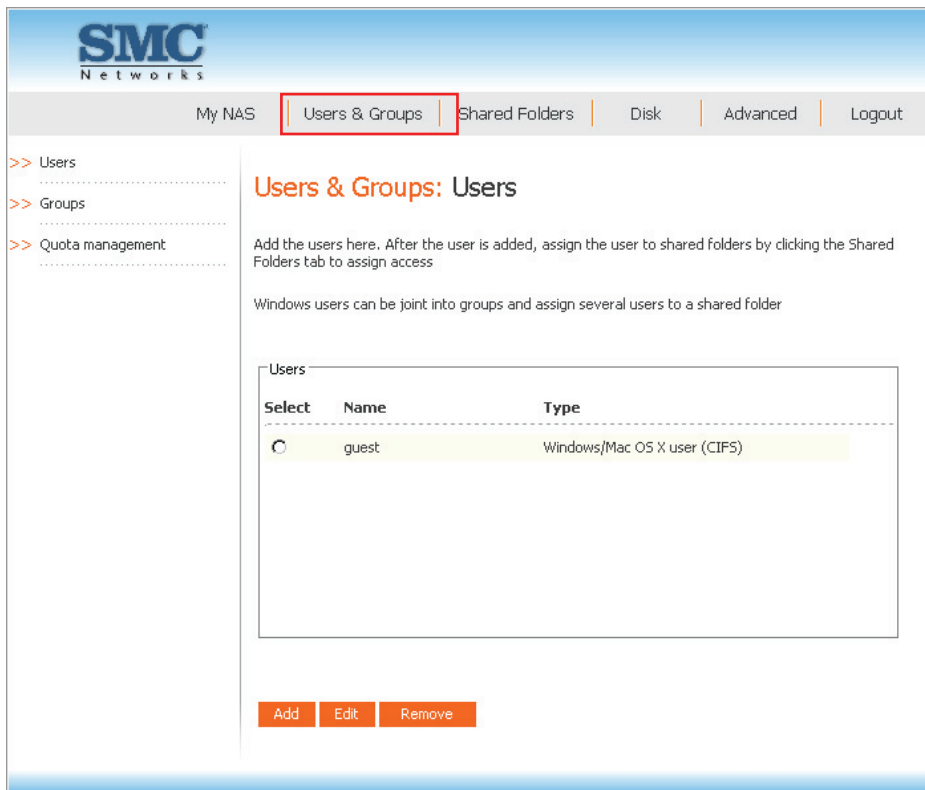


## 3.4 Users & Groups Page

Display a list of all currently configured users for allowing you to 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.



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

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 joined into groups and assign several users to a shared folder

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

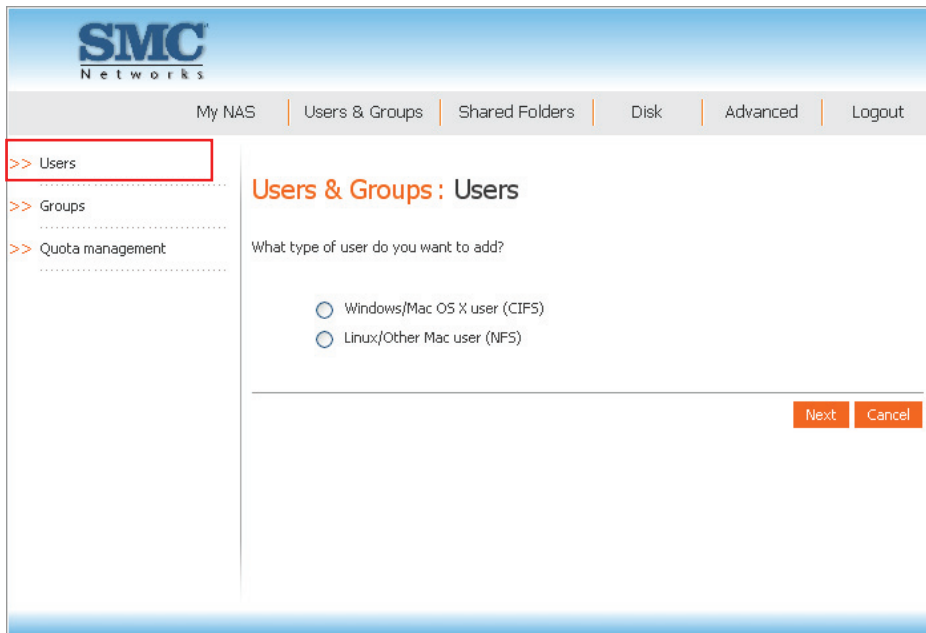
At the bottom of the table are three buttons: 'Add', 'Edit', and 'Remove'.

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 details).

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



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



4. Click “**Next**” and the following screen appears. You must provide the requested user information.

For Windows/Mac OS X user (CIFS) –

SMC Networks

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

>> Users  
.....  
>> Groups  
.....  
>> Quota management  
.....

### Users & Groups: Users

Use this screen to add a Microsoft Windows or Mac OS X user.

Enter the name and the password for the user. The user must enter this name and password to access any shared folders.

The password cannot exceed eight characters.

User name :

Password :

Confirm password :

Back Apply Cancel

**To change this . . .**

**Do this . . .**

**User name**

In the **User name** field, enter the user name.

**Password**

In the **Password** and **Confirm password** fields,

**Confirm password**

enter the password for accessing any shared folders.

For Linux/other Mac user (NFS) – (future option)

The screenshot shows the SMC Networks web interface. The top navigation bar includes 'My NAS', 'Users & Groups', 'Shared Folders', 'Disk', 'Advanced', and 'Logout'. The left sidebar has a tree view with 'Users', 'Groups', and 'Quota management'. The main content area is titled 'Users & Groups : Users' and contains the following text: 'Use this screen to add a Linux or Mac OS user. The Computer Description can be the name of the user who typically accesses the computer or any other description to identify the computer. 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.' Below this text are two input fields: 'Computer description : [input field]' and 'IP address or computer name : [input field]'. At the bottom right, there are three buttons: 'Back', 'Apply', and 'Cancel'.

To change this . . .	Do this . . .
<b>Computer description</b>	The <b>Computer description</b> field can be the name of the user who typically accesses the computer or any other description to identify the computer.
<b>IP address or computer name</b>	The <b>IP address</b> or <b>computer name</b> field identifies the Host system, enter the IP address or computer name of the user you are adding.

5. 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.

## Groups

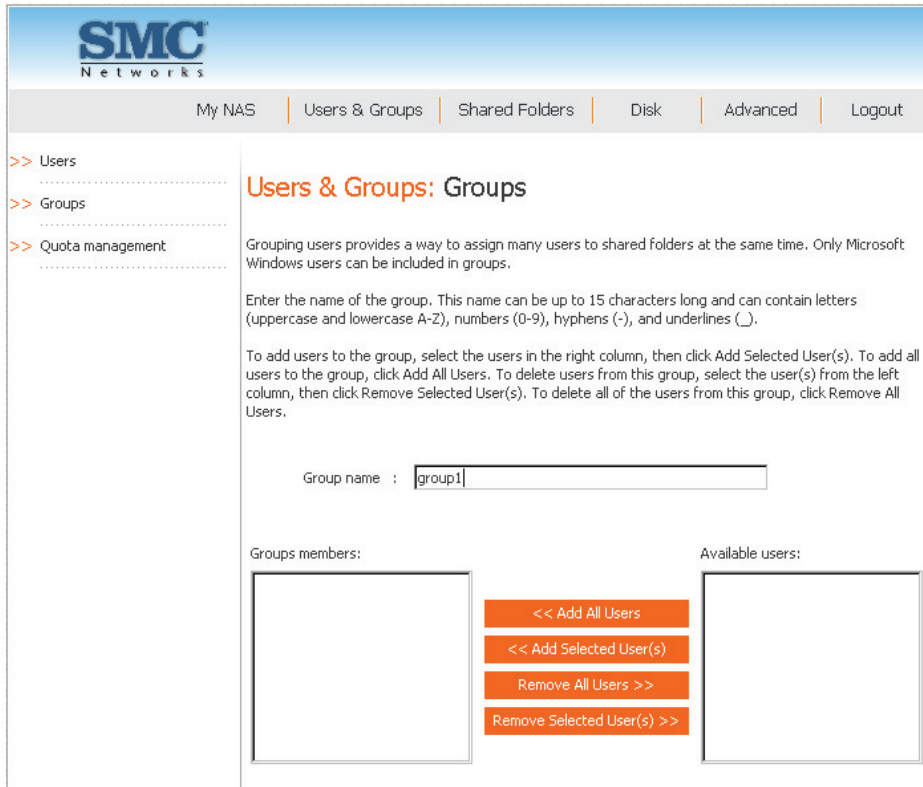
Placing users into groups makes it easier to give several users access to the same shared folder at once.

1. Click “**Groups**” on the “**Users & Groups**” page. The following screen appears.

! **NOTE:** Only Windows users can be included in groups.



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



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

3. 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**” on the “**Users & Groups**” page. The following screen appears.

The screenshot shows the SMC Networks web interface for 'Users & Groups: Quota management'. The top navigation bar includes 'My NAS', 'Users & Groups', 'Shared Folders', 'Disk', 'Advanced', and 'Logout'. The left sidebar has a tree view with 'Users', 'Groups', and 'Quota management' (highlighted with a red box). The main content area 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 is a form to 'Enable quota for all users' with a checkbox, a 'Quota size on the SATA disk' input field (set to 0 MB), and an 'Administrator password' field. An 'Apply' button is at the bottom. A second section shows 'Users:' with a list containing 'guest' and 'Quota status for user:' with a table of values: Disk Free Size: 0 MB, Quota Size: 0 MB, Used Size: 0 MB, and Available Size: 0 MB. Below this is a section to 'Set the Quota Size of guest on the SATA disk' with radio buttons for 'No limit' (selected) and 'Quota Size' (set to 0 MB), and an 'Administrator password' field with an 'Apply' button.

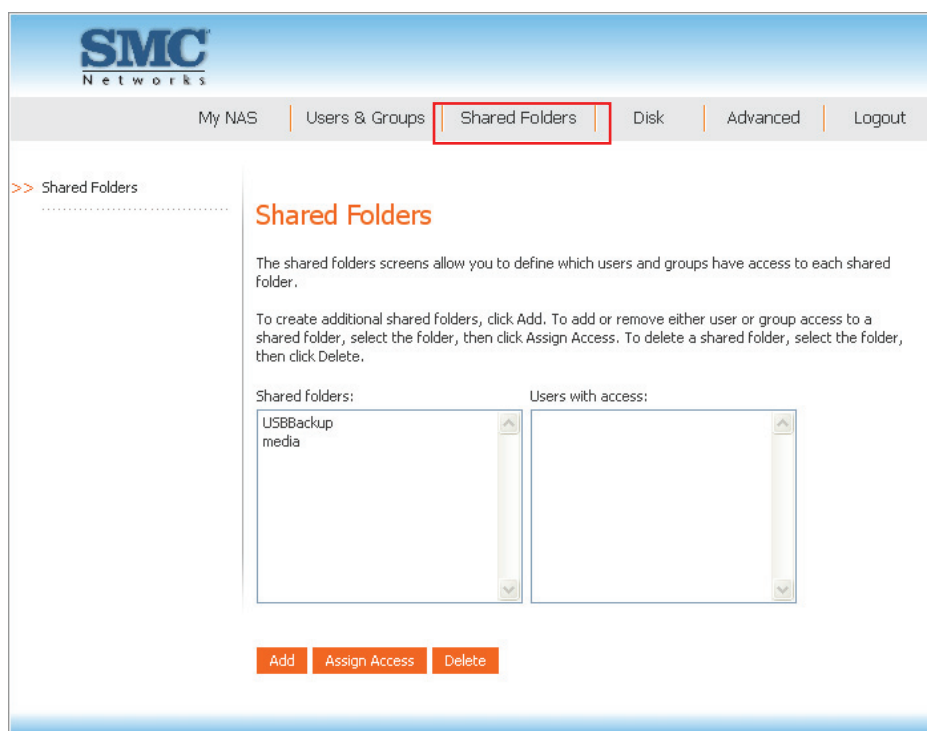
To change this . . .	Do this . . .
<b>Enable quota for all users</b>	Click the checkbox to set quota for all Windows users.
<b>Quota size on the SATA disk</b>	In the <b>Quota size on the SATA disk</b> field, enter the quota size (MB).
<b>Administrator password</b>	In the <b>Administrator password</b> field, enter the password for logging in to the Storage System Management. The password is case-sensitive.
<b>Users</b>	Displays a list of available users.
<b>Set the Quota Size of guest on the SATA disk</b>	It is for the set quota of the specific user on the <b>SATA disk</b> field, select <b>No Limit</b> or <b>Quota Size</b> and enters the quota size (MB).
<b>Administrator password</b>	In the <b>Administrator password</b> field, enter the password for logging in to the Storage System Management. The password is case-sensitive.

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

## 3.5 Shared Folders Page

Display a list of all currently configured and shared folders and allow you to add shared folders, change which users can access them, or remove them.

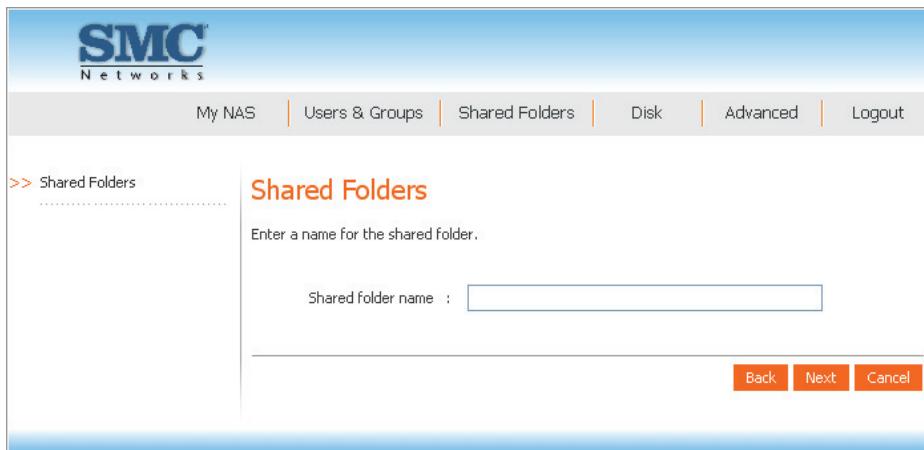
1. Click the “**Shared Folders**” button on the Storage System Management homepage. The following screen appears.





## Add Shared Folder

1. Click “**Add**” to create shared folder and the following screen appears.

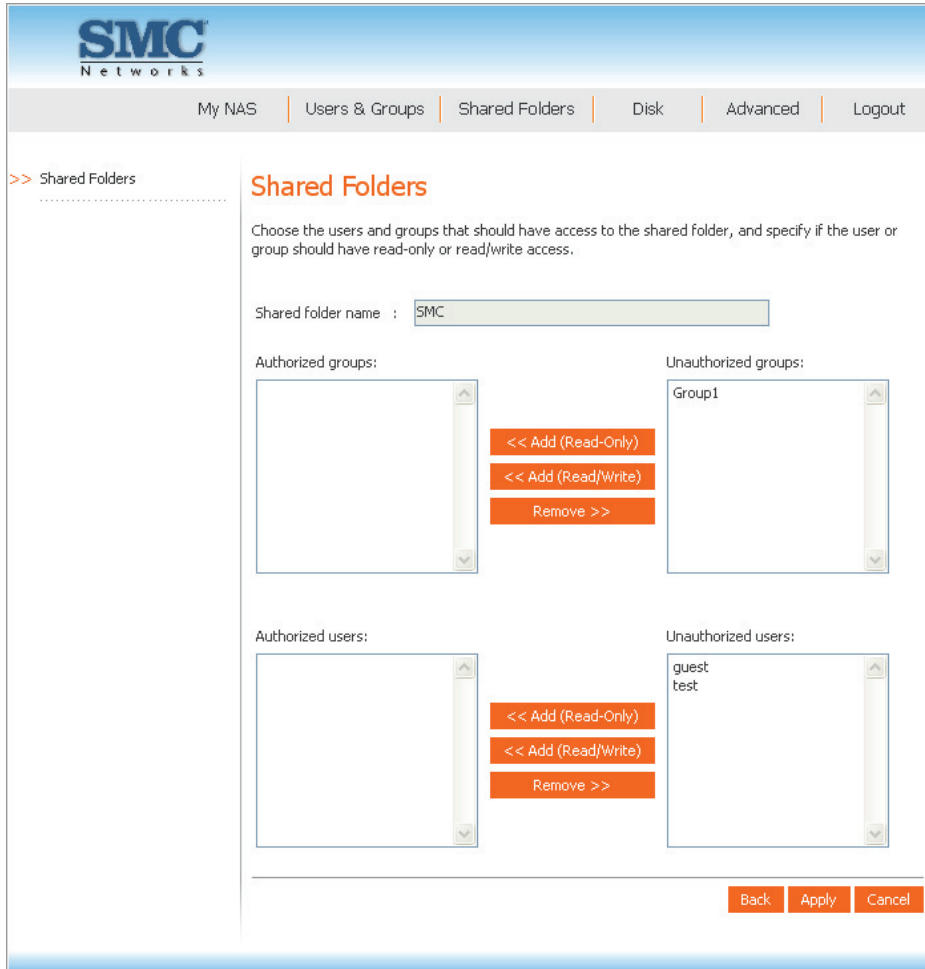


The screenshot shows the SMC Networks web interface. At the top left is the SMC Networks logo. A navigation bar contains links for My NAS, Users & Groups, Shared Folders, Disk, Advanced, and Logout. The main content area is titled "Shared Folders" and includes a breadcrumb trail ">> Shared Folders". Below the breadcrumb, there is a heading "Shared Folders" and a prompt "Enter a name for the shared folder." followed by a text input field labeled "Shared folder name :". At the bottom right of the form area are three buttons: "Back", "Next", and "Cancel".

2. Enter the name of the new shared folder and click “**Next.**”
3. Select the users/groups who you want to authorize (add or remove user).
4. Click “**Apply.**”

## Assign Access

1. Select a folder which you want to modify. Click “**Assign Access**” and the following screen appear.



The screenshot shows the SMC Networks web interface for configuring shared folders. The top navigation bar includes "My NAS", "Users & Groups", "Shared Folders", "Disk", "Advanced", and "Logout". The main content area is titled "Shared Folders" and contains the following elements:

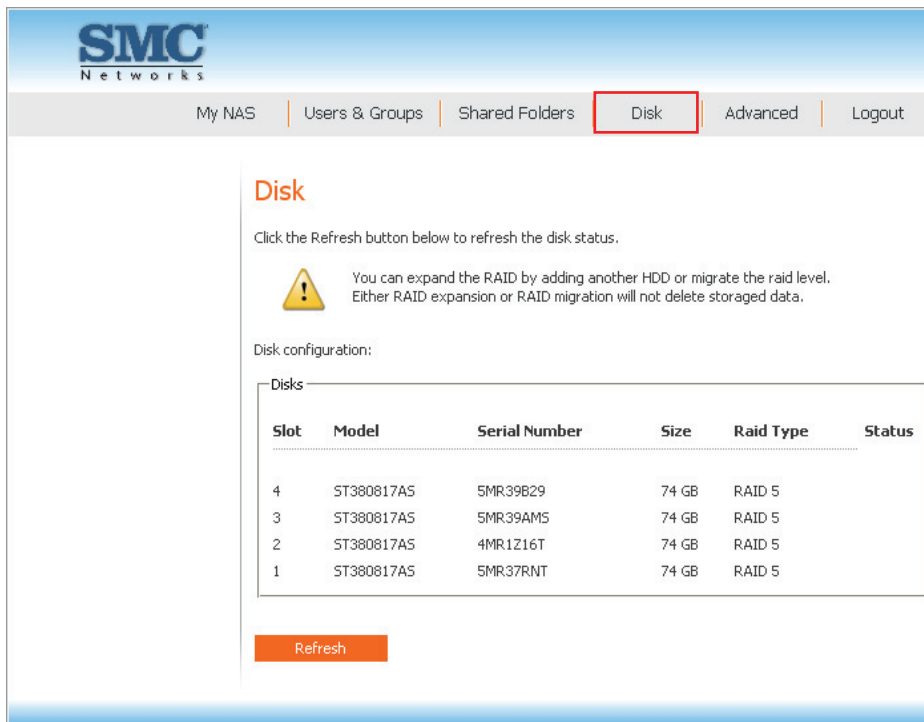
- A breadcrumb: ">> Shared Folders".
- A sub-header: "Shared Folders".
- Instructional text: "Choose the users and groups that should have access to the shared folder, and specify if the user or group should have read-only or read/write access."
- A text input field for "Shared folder name" containing the value "SMC".
- Two columns of configuration options:
  - Authorized groups:** An empty list box with three buttons: "<< Add (Read-Only)", "<< Add (Read/Write)", and "Remove >>".
  - Unauthorized groups:** A list box containing "Group1" with the same three buttons.
  - Authorized users:** An empty list box with the same three buttons.
  - Unauthorized users:** A list box containing "guest" and "test" with the same three buttons.
- At the bottom right, three buttons: "Back", "Apply", and "Cancel".

2. Enter the “**Shared folder name.**”
3. You can “**Add**” (specify as “**Read-Only**” or “**Read/Write**”) users/groups to, as well as “**Remove**” existing users/groups from shared folders.
4. Click “**Apply.**”

5. When the message of confirmation 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).



The screenshot displays the SMC Networks web interface. At the top, the SMC Networks logo is visible. Below it is a navigation bar with the following items: My NAS, Users & Groups, Shared Folders, **Disk** (highlighted with a red box), Advanced, and Logout. The main content area is titled "Disk" and includes the following text:

Click the Refresh button below to refresh the disk status.

 You can expand the RAID by adding another HDD or migrate the raid level. Either RAID expansion or RAID migration will not delete stored data.

Disk configuration:

Slot	Model	Serial Number	Size	Raid Type	Status
4	ST380817AS	5MR39B29	74 GB	RAID 5	
3	ST380817AS	5MR39AM5	74 GB	RAID 5	
2	ST380817AS	4MR1Z16T	74 GB	RAID 5	
1	ST380817AS	5MR37RNT	74 GB	RAID 5	

At the bottom of the table, there is a "Refresh" button.

## 3.7 Advanced Page

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

The screenshot shows the SMC Networks Advanced Alerts configuration page. The page has a blue header with the SMC Networks logo and a navigation bar with links: My NAS, Users & Groups, Shared Folders, Disk, Advanced, and Logout. On the left, there is a sidebar menu with options: Alerts, Firmware, iTunes Server, Media Server, Printer server, UPS, USB backup, System log, Shut Down, Reboot, and Back to Zero Disk. 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 three form sections: "E-mail server" with fields for SMTP server name or IP address, SMTP server authentication (checkbox), User name, and Password; "E-mail sender" with a field for Sender e-mail address; and "E-mail recipients" with fields for First e-mail address and Second e-mail address. At the bottom, there are "Apply" and "Test E-mail" buttons.

## Alerts

Allow 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 have reached one limitation of total capacity, when the upper operating temperature has been reached, and when power level of the USB-UPS is not adequate .

To have a good use of this feature, you must have to access 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 on the “**Advanced**” button on the Storage System Management homepage. The following screen appears.

The screenshot shows the SMC Networks Advanced Alerts configuration page. The top navigation bar includes 'My NAS', 'Users & Groups', 'Shared Folders', 'Disk', 'Advanced' (highlighted with a red box), and 'Logout'. A left sidebar contains a list of system management options, with 'Alerts' highlighted by a red box. The main content area is titled 'Advanced : Alerts' and features 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.' The 'E-mail server' section contains a text box for 'SMTP server name or IP address', a checkbox for 'SMTP server authentication', and text boxes for 'User name' and 'Password'. An information icon and text state: 'Enter a user name and password for your e-mail server only if this is required by your e-mail server.' The 'E-mail sender' section has a text box for 'Sender e-mail address'. The 'E-mail recipients' section has text boxes for 'First e-mail address' and 'Second e-mail address'. At the 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 authenticated, enable it and enter the User name and Password.

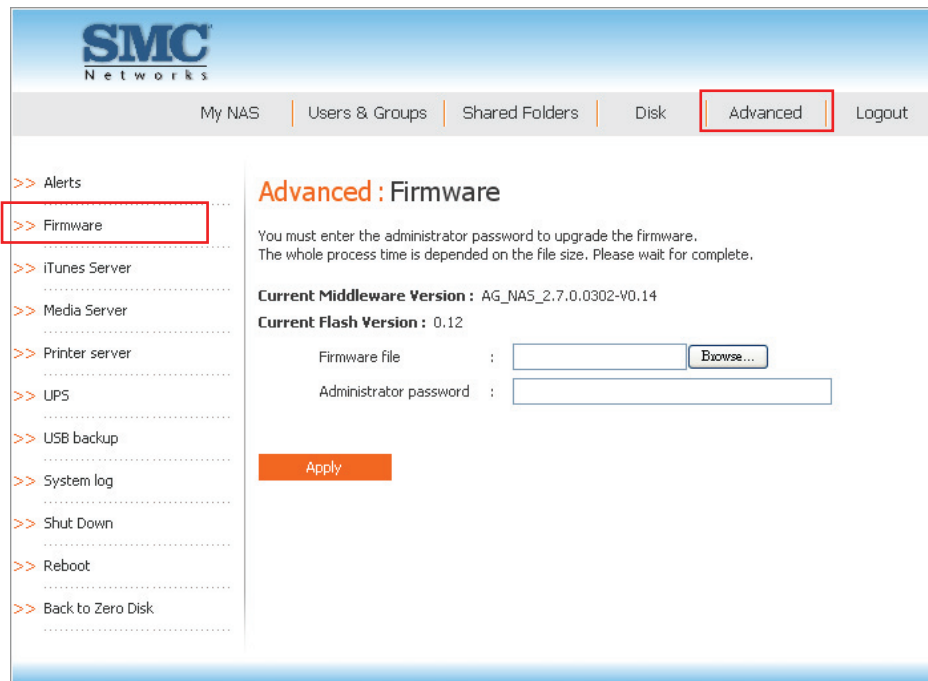
3. Click “**Apply.**”

4. When the message of confirmation appears, click “OK” to confirm.

## Firmware

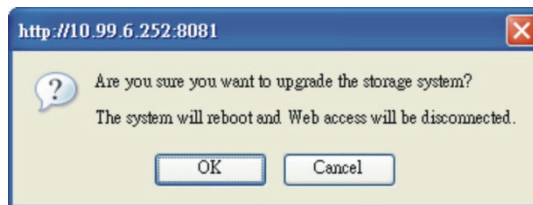
Allows you to upgrade your storage system to a newer firmware when available (check the support section of [www.smc.com](http://www.smc.com) for the latest firmware).

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.

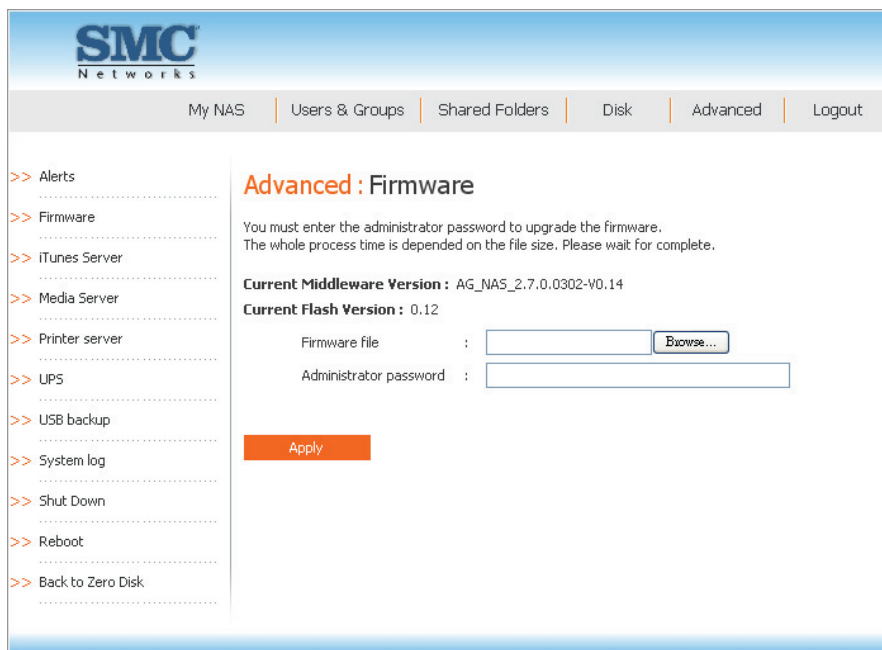


2. Click “Browse” and select the firmware file  
**Upgrade-x.x.x.xxxx-Vxx.xx.cpio.bz2** (example as D:\  
**Upgrade-2.7.0.0309-v1.0.cpio.bz2**) from the displayed list.  
(you can place the **Upgrade\_x.x.x.xxxx-Vxx.xx.cpio.bz2** in any folder on your PC that you like)
3. In the “Administrator password” text box, enter the password.

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



6. The upload percentage will be displayed.



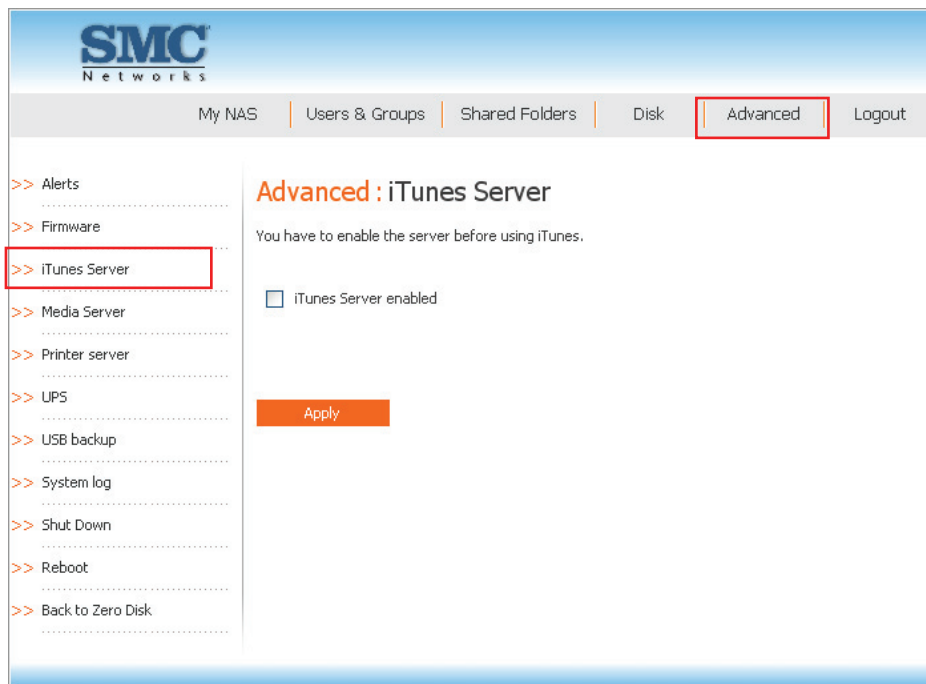
7. System will reboot automatically after upgrade is done.



## iTunes Server

Allow your storage system to function as an iTunes server for accessing digital music and video files from an iTunes client computer.

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

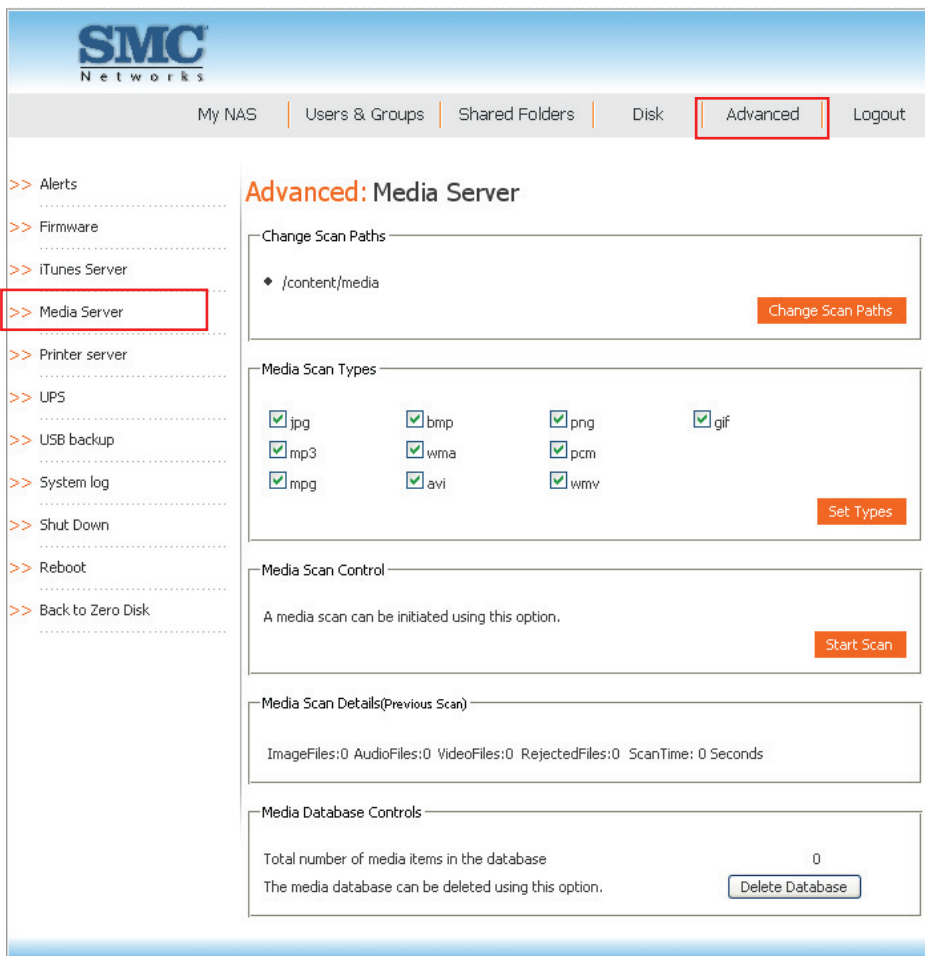


2. Click the checkbox **“iTunes Server enabled.”**

## 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.

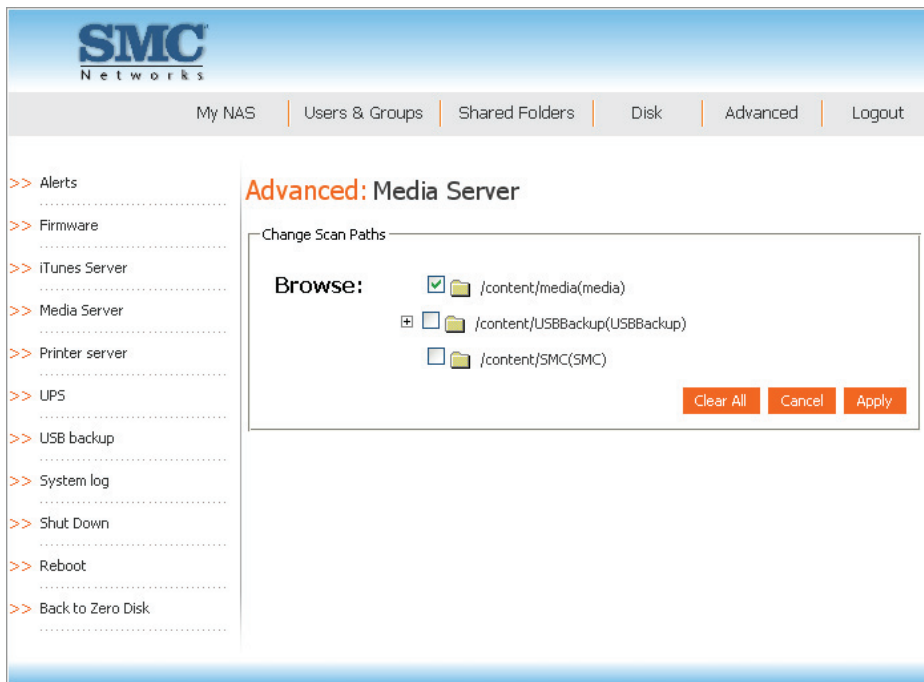


The screenshot displays the SMC Networks web interface. The top navigation bar includes 'My NAS', 'Users & Groups', 'Shared Folders', 'Disk', 'Advanced' (highlighted with a red box), and 'Logout'. The left sidebar contains a list of menu items: Alerts, Firmware, iTunes Server, Media Server (highlighted with a red box), Printer server, UPS, USB backup, System log, Shut Down, Reboot, and Back to Zero Disk. The main content area is titled 'Advanced: Media Server' and contains several sections:

- Change Scan Paths:** A text input field containing '/content/media' and 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 located at the bottom right of this section.
- 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 displaying the text '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 . . .
<b>Change Scan Paths</b>	Click <b>Change Scan Paths</b> if you want your computer to search for media files which differ from the one currently specified (see step 2).
<b>Media Scan Types</b>	Click on the checkbox of the file types on the list to be included, and then click <b>Set Types</b> .
<b>Media Scan Control</b>	Click <b>Start Scan</b> to start scanning.
<b>Media Scan Details (Previous Scan)</b>	Displays the result of the latest scan by showing the total number of image files, audio files, video files, rejected files, and scan time.
<b>Delete Database</b>	<ol style="list-style-type: none"> <li>1. The total number of media items would be displayed.</li> <li>2. Delete database: It will delete the playlist.</li> </ol>

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



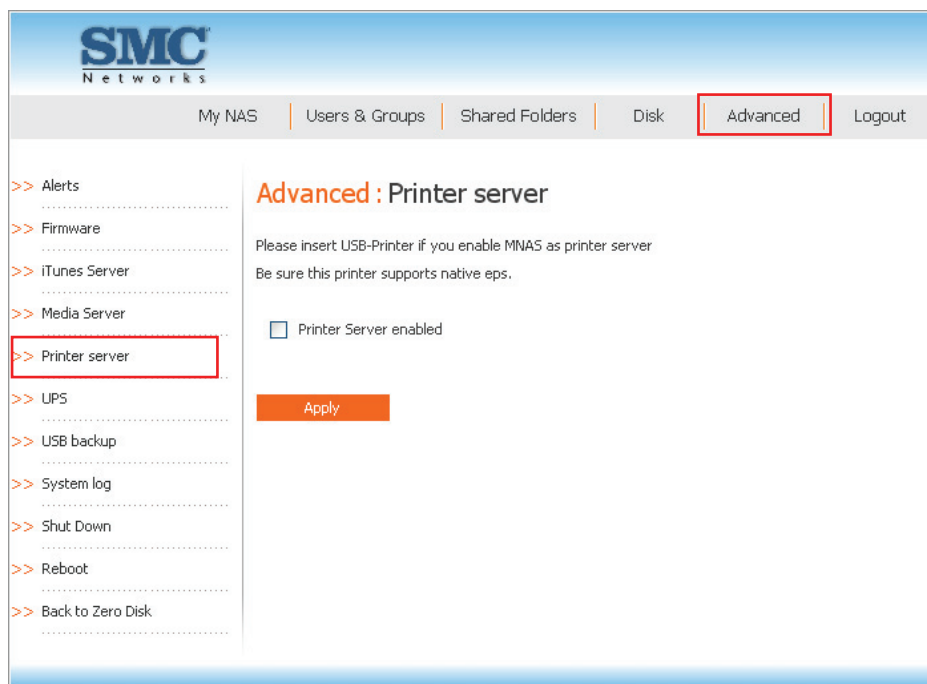
3. Select the desired scan path(s).

4. Click “**Apply.**”
5. When the message of confirmation 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:** To be able to print Postscript file, you need to convert it to PDF format first.

3. Click the checkbox “**Printer Server enabled.**”
4. Click “**Apply.**”

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

5. When the message of confirmation appears, click “**OK**” to confirm.

**NOTE:** When setting up the USB printer on your computer, you need to specify the storage system’s **IP:631/printers/PrinterServer**.

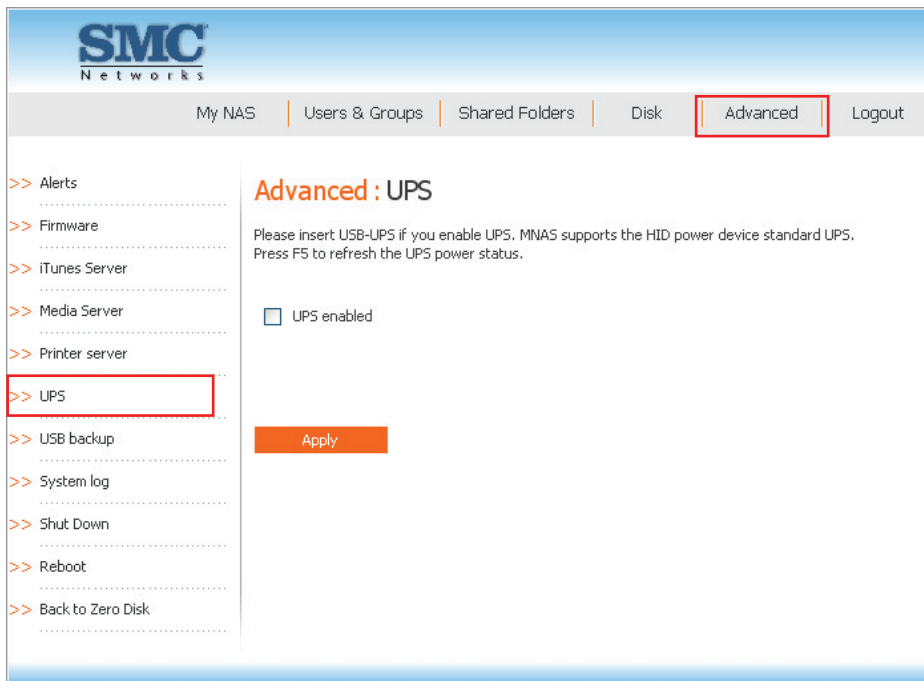
## UPS (Uninterruptible Power Supply)

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

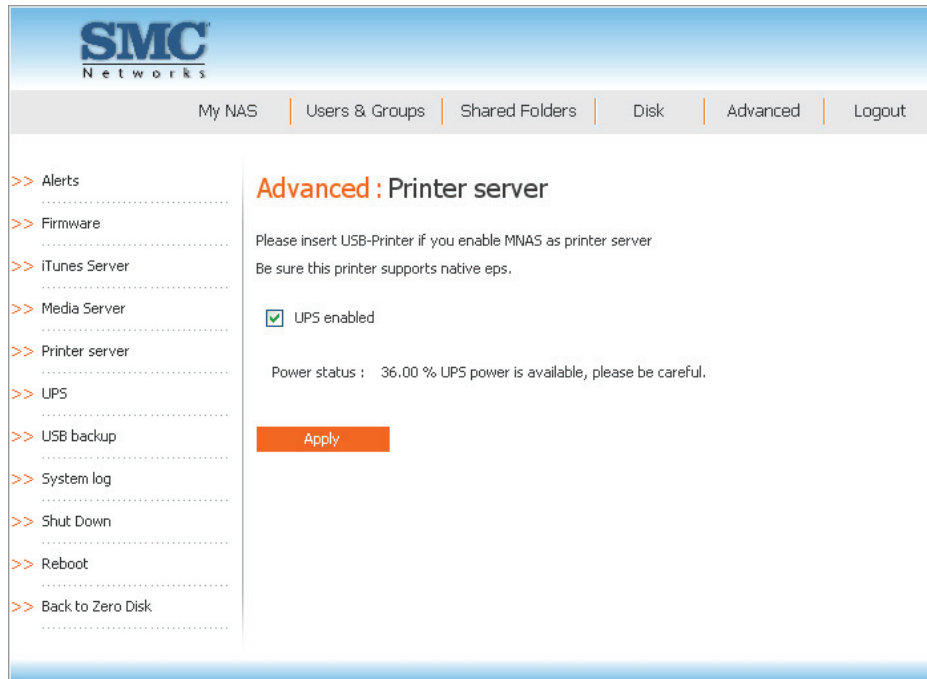
1. Connect a USB-UPS to any USB port on your storage system.

**NOTE:** When using the USB-UPS and the power level is not adequate, an email alert will be sent for informing 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 there is no USB-UPS connected to your storage system.
5. When the message of confirmation appears, click “**OK**” to confirm.

## USB Backup

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

1. Click “**USB backup**” 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'. A left sidebar lists various system settings, with 'USB backup' highlighted by a red box. The main content area is titled 'Advanced : USB backup' and contains three configuration sections:

- USB backup to MNAS:** Includes a text input field for 'Administrator password' and an 'Apply' button.
- Eject your USB:** Includes a dropdown menu set to 'sda1', a text input field for 'Administrator password', and an 'Apply' button.
- Criteria of backup available space:** Includes a text input field with the value '10', a text input field for 'Administrator password', and an 'Apply' button.

2. In the “**Administrator password**” text box, enter the password.
3. Click “**Apply.**”
4. If you want to change the default “**Criteria of backup available space,**” in the “**Criteria of backup available space**” textbox, enter the value (MB) to change the allocated disk space allowed for backing up to your storage system.

Otherwise do not change it, the default setting of the criteria of backup available space (10 %) is suggested.

5. Enter the password again.

- 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/**.

**NOTE:** When the total file size overflows the limitation, the warning message **“The disk space is not enough”** appears.

## 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.

- 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 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, 'System log' is selected and highlighted with a red box. The main content area is titled 'Advanced : System Log' and contains a table of system events. Below the table is a legend and a 'Refresh' button.

Date/Time	Type	Event
Mar 2 19:11:49	I	iTunes server turned off.
Mar 2 19:08:42	I	iTunes server turned on.
Mar 2 18:13:41	I	Shared folder sda1 removed.
Mar 2 18:13:28	I	USB device copy done.
Mar 2 18:13:21	I	System shutting down.
Mar 2 18:09:41	I	USB device is copying.
Mar 2 18:07:23	I	Shared folder fff added.
Mar 2 18:05:45	I	Group g1 added.
Mar 2 18:05:34	I	User test added.
Mar 2 18:05:12	I	Administrator password changed.
Mar 2 18:05:03	I	Date/time changed.
Mar 2 18:04:57	I	FTP server turned on.
Mar 2 18:04:33	I	Administrator logged in.

I=Informational, E=Error, W=Warning, C=Critical Error

Refresh

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

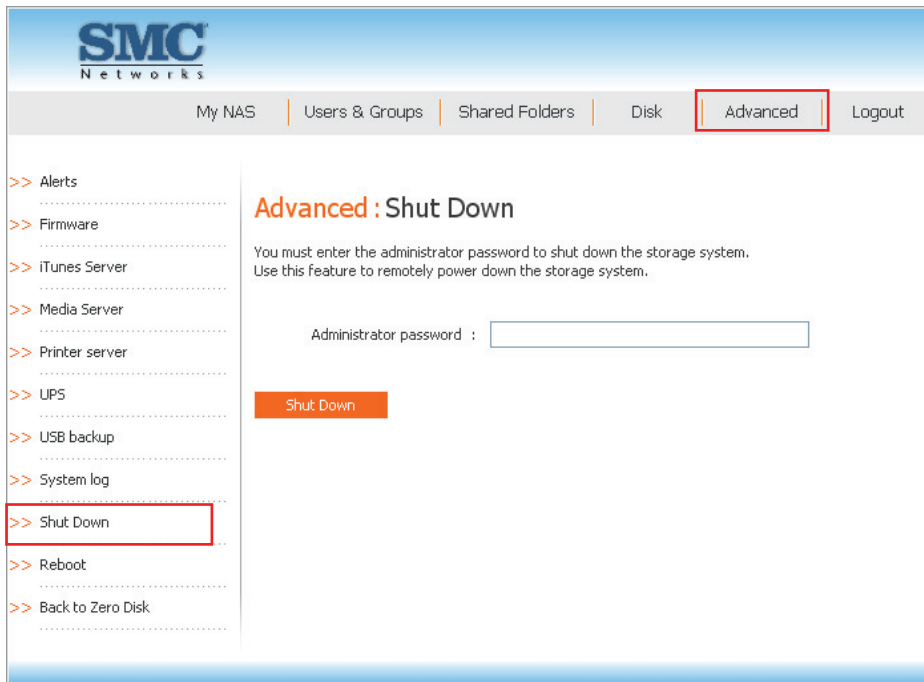


## Shut Down

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:

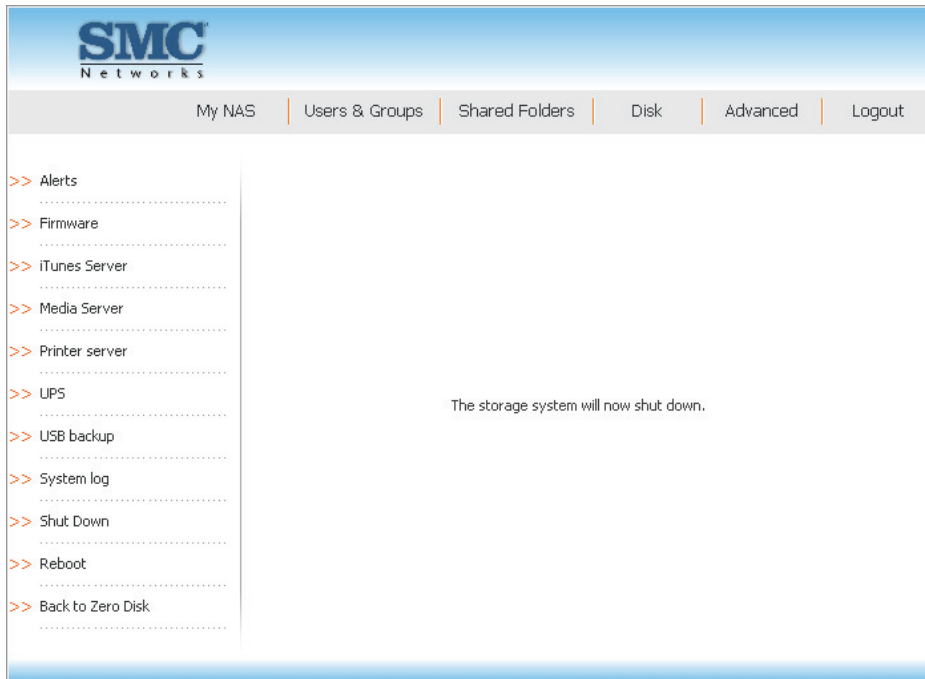
1. Click **“Shut Down”** on the **“Advanced”** page and the following screen appears, allowing you to shutdown the storage system.

**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.”**

3. Click “**Shut Down.**” A message appears the indication of that the system is shutting down.



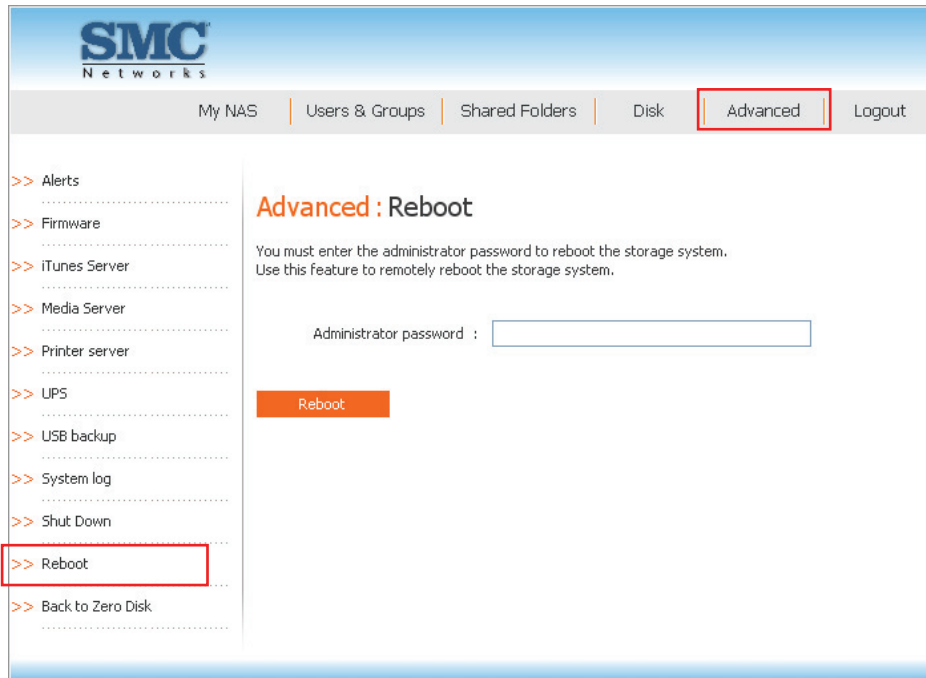
**CAUTION:** Always shutdown the system in accordance with the instructions above. An improper shutdown may affect the functionality of storage system in the next startup.

## Reboot

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

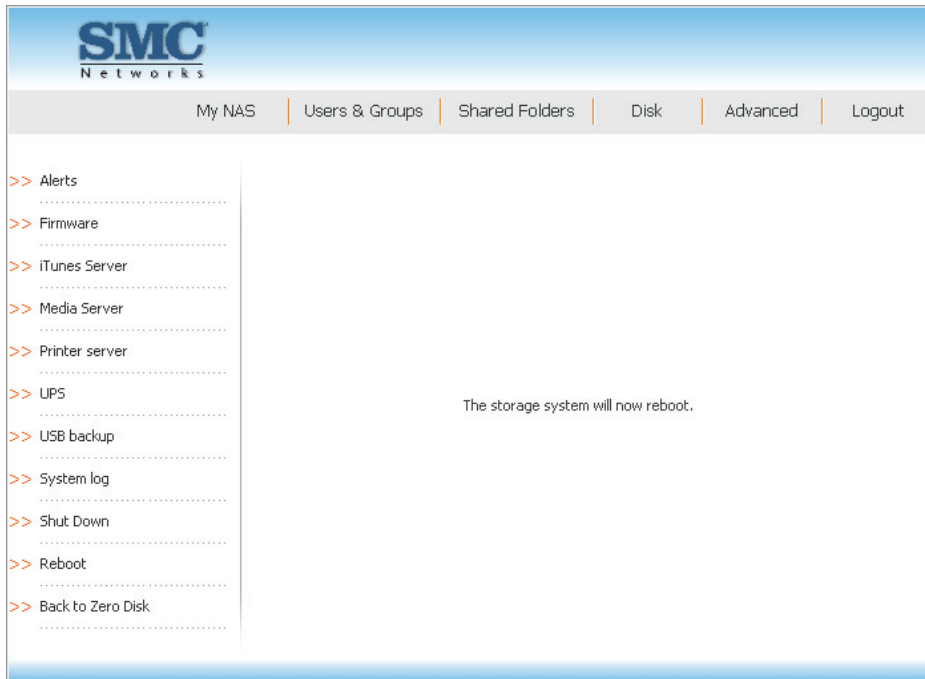
1. Click **“Reboot”** on the **“Advanced”** page and the following screen appears, allowing you to reboot the storage system.

**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.”**

3. Click “**Reboot.**” A message appears the indication of that the system is rebooting.

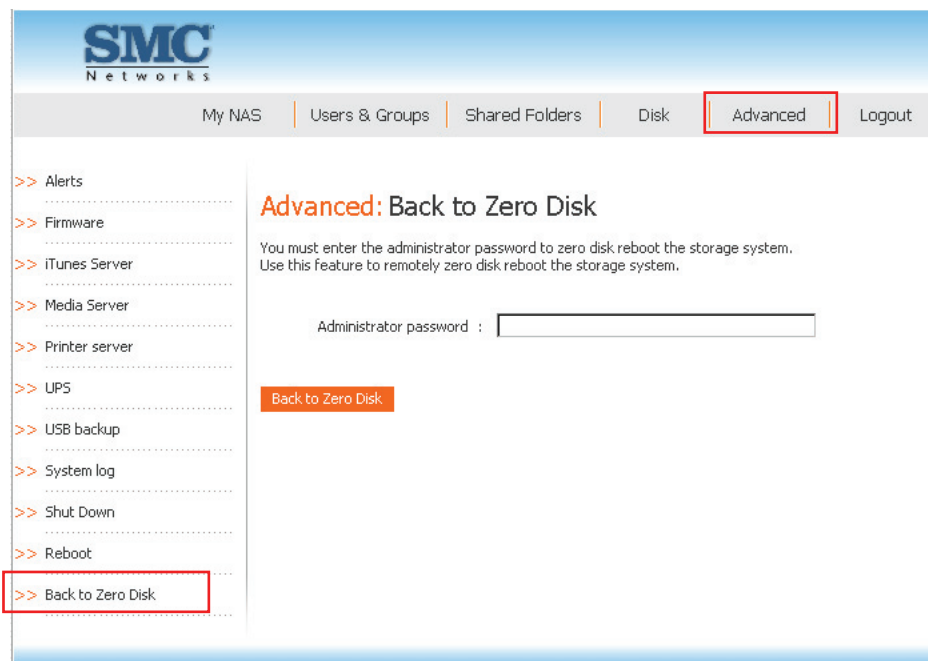


**CAUTION:** Always reboot the system in accordance with the instructions above. An improper reboot may affect the functionality of storage system in the next startup.

## Back to Zero Disk

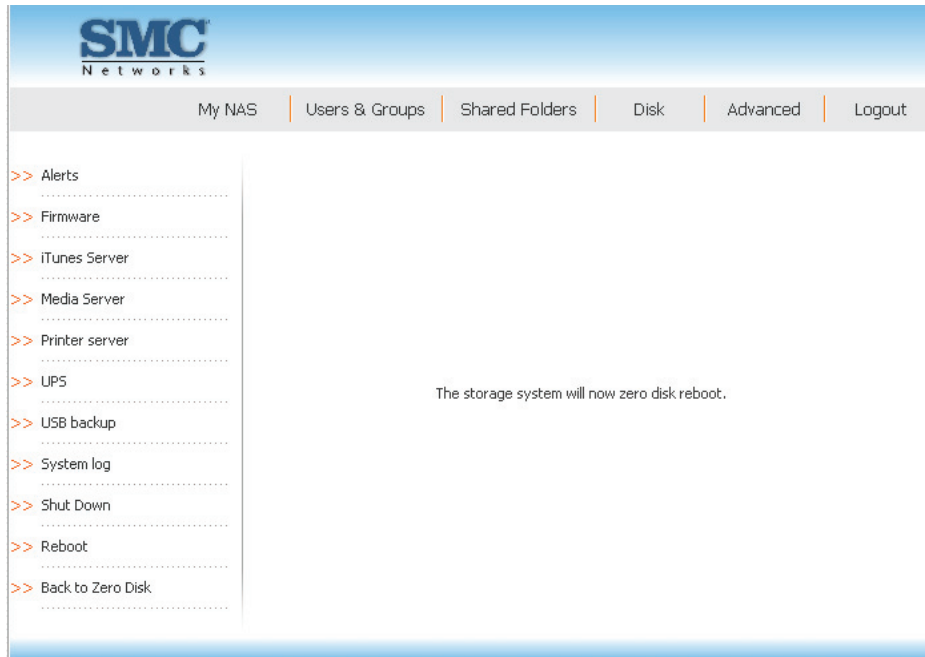
User does not need to press hardware “reset” button 15 seconds to go back to zero disk again. User can click the “**Back to Zero Disk**” of “**Advanced**” page.

1. Click “**Back to Zero Disk**” on the “**Advanced**” page and the following screen appears, allowing you to back to software installation step 3.1.5. to change the preferred RAID configuration.



2. Enter the “**Administrator password.**”

3. Click “**Back to Zero Disk.**” A message appears indicating that the system is rebooting.

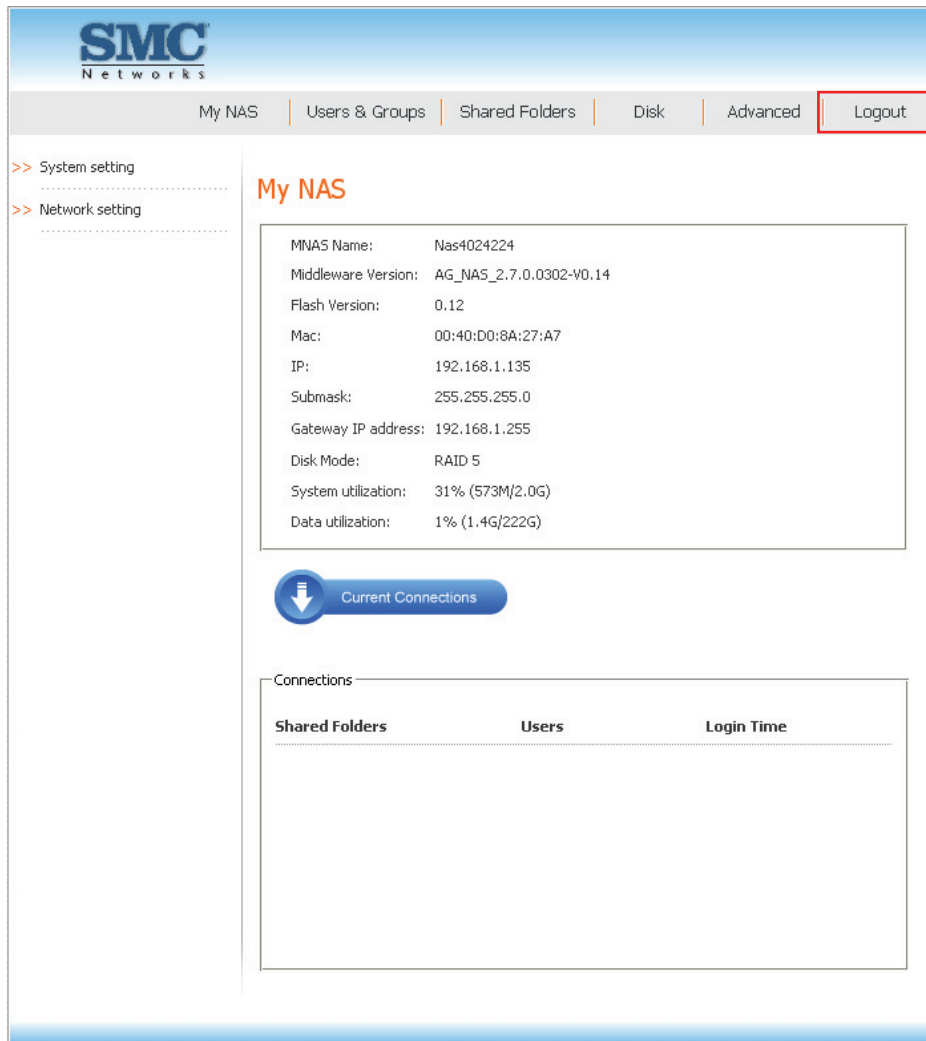


4. Wait for a while (approximately 3~5 minutes) until the following screen appears. Click “Click to Configure RAID Profile” on the “Configuration URL” column (Please refer to software installation STEP 3.1.5.)
5. The following screen appears. Select the preferred RAID configuration by clicking the “**CHANGE TO**” drop down menu under “**RAID Profiles,**” then click “**CHANGE**” (Please refer to software installation step 3.1.6.)

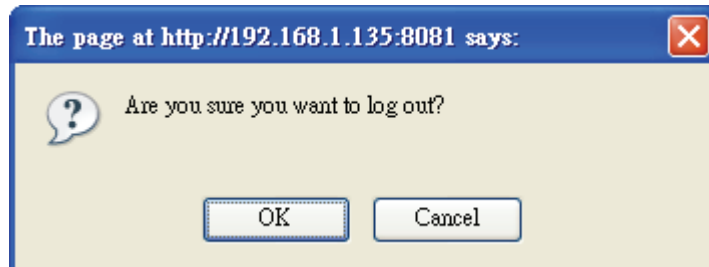
**CAUTION:** An improper reboot may affect the functionality of storage system in the next startup.

### 3.8 Logging Out of Storage System Management

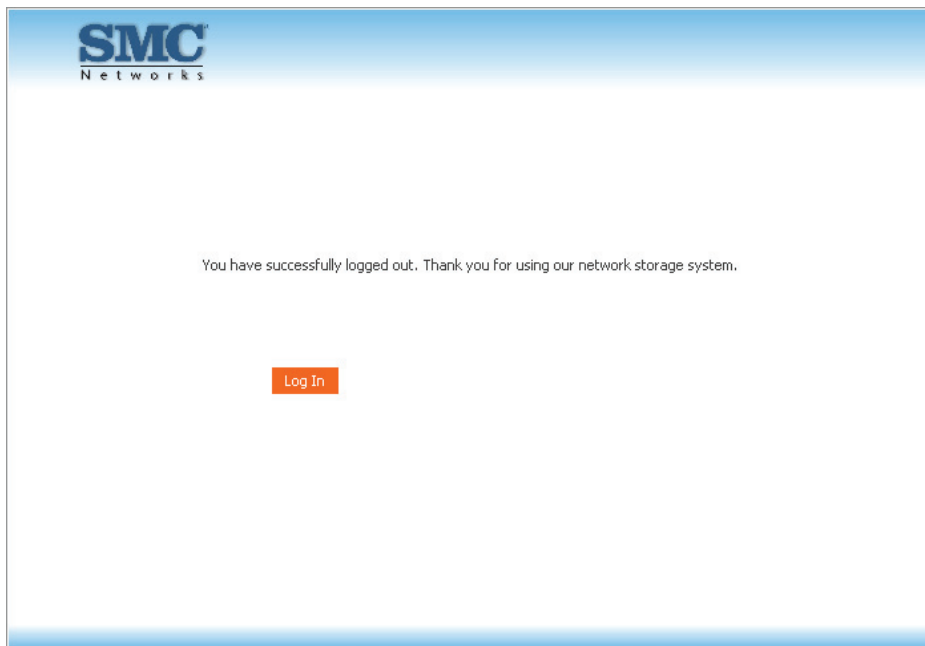
1. To log out of the Storage System Management system without shutting it down, click the “Logout” button.



2. When the message of confirmation 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.”

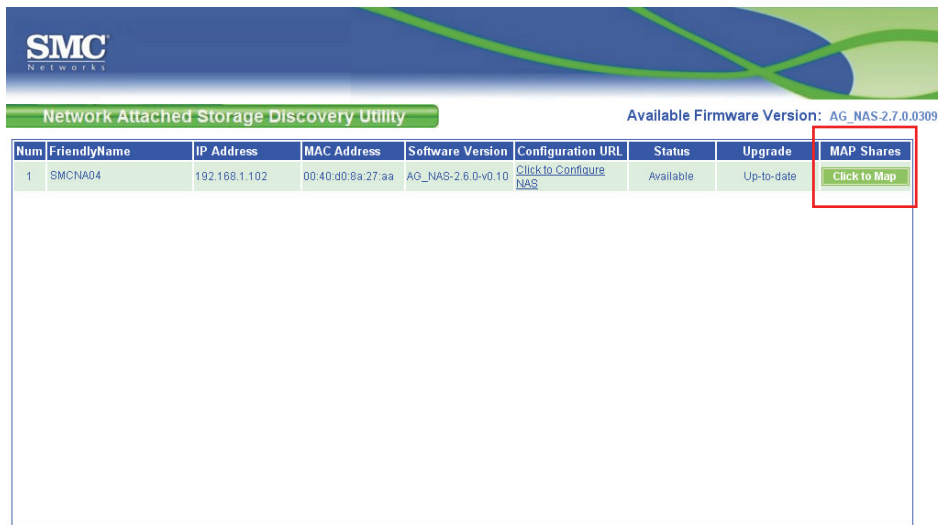




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## Chapter 4 MAP SHARES

1. The following screen appears, click “Click to Map” under the “MAP Shares” column to map shared folders.



2. Then, the following screen appears.

**NAS Samba Share:** User could select which shared folder to connect.

**Share Name:** User could re-name a preferred share name.

NAS Samba Shares Map Utility: 192.168.1.113

Choose the drive and the NAS samba share directory that you want to map:

NAS Samba Share: \\192.168.1.113\media

Drive: Y:  Reconnect at logon

User Name:

Password:

Share Name: media@192.168.1.113

Maximum characters allowed: User Name-32. Password-64.

Map Exit

# Input Limitation

Before the user inputs are set to the system, the WEB GUI is required to validate the user inputs according to the following rules:

## Administrator name:

- ✓ Maximum number of characters: 15
- ✓ Rules: 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)

## Administrator password:

- ✓ Maximum number of characters: 8
- ✓ Rules: Any printable ASCII characters but not [ ' ]

## Host name: \*

- ✓ Maximum number of characters: 15
- ✓ Rules: Can include only letters (uppercase and lowercase A-Z), numbers (0-9) and hyphens (-). First character must be a letter (uppercase and lowercase A-Z)
- ✓ Because the iSCSI target name need use to add the original hostname with the underline.

## Workgroup name: \*

- ✓ Maximum number of characters: 15
- ✓ Rules: can include only letters (uppercase and lowercase A-Z), numbers (0-9), hyphens (-) and underlines (\_). First character must be a letter (uppercase and lowercase A-Z)

## CIFS user name:

- ✓ Maximum number of characters: 15
- ✓ Rules: 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),
- ✓ User name cannot be uppercase and lowercase "root," "backupuser," "nobody," "ftp," "anonymous."

## CIFS group name:

- ✓ Maximum number of characters: 15
- ✓ Rules: 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).
- ✓ Group name cannot be uppercase and lowercase "root," "isadmin," "isclient," "isrou," "isbmr," "nasgrp."

## NFS computer description:

- ✓ Maximum number of characters: 15
- ✓ Rules: 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).

## NFS computer name (IP or domain name):

- ✓ Maximum number of characters: 64
- ✓ Rules: Can include only letters (uppercase and lowercase A-Z), numbers (0-9), hyphens (-), underlines (\_), dots (.), slash(/), star(\*), question mark (?).

## Shared name:

- ✓ Maximum number of characters: 64
- ✓ Rules: 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).
- ✓ Share name cannot be uppercase and lowercase “com1” ... “com9”, “lpt1” ... “lpt9”, “con,” “nul,” “prn,” “aux,” “homes,” “spool,” “usbdisk1,” “usbdisk2,” “usbprint1,” “usbprint2.”

## SMTP server name:

- ✓ Maximum number of characters: 64
- ✓ Rules: Can include only letters (uppercase and lowercase A-Z), numbers (0-9), hyphens (-), underlines (\_) and dots (.)

## Email address:

- ✓ Maximum number of characters: 128

## IP, subnet mask, Gateway, DNS address:

- ✓ Maximum number of characters: 15 (3 “.” included)
- ✓ Rules: The format is xxx.xxx.xxx.xxx and the value of xxx is between 0 and 255

## NTP server name:

- ✓ Maximum number of characters: 64
- ✓ Rules: Can include only letters (uppercase and lowercase A-Z), numbers (0-9), hyphens (-), underlines (\_) and dots (.)

## SMTP user name:

- ✓ Maximum number of characters: 64
- ✓ Rules: Cannot include quote (‘), double-quote (“), backslash (\), question mark (?), (&), angle brackets (<) and (>).



**TECHNICAL SUPPORT**

From U.S.A. and Canada (24 hours a day, 7 days a week)  
Phn: 800-SMC-4-YOU / 949-679-8000  
Fax: 949-502-3400

**ENGLISH**

Technical Support information available at [www.smc.com](http://www.smc.com)

**FRENCH**

Informations Support Technique sur [www.smc.com](http://www.smc.com)

**DEUTSCH**

Technischer Support und weitere Information unter [www.smc.com](http://www.smc.com)

**SPANISH**

En [www.smc.com](http://www.smc.com) Ud. podrá encontrar la información relativa a servicios de soporte técnico

**DUTCH**

Technische ondersteuningsinformatie beschikbaar op [www.smc.com](http://www.smc.com)

**PORTUGUES**

Informações sobre Suporte Técnico em [www.smc.com](http://www.smc.com)

**SWEDISH**

Information om Teknisk Support finns tillgängligt på [www.smc.com](http://www.smc.com)

**INTERNET**

E-mail address: [techsupport@smc.com](mailto:techsupport@smc.com)

**Driver updates**

[http://www.smc.com/index.cfm?action=tech\\_support\\_drivers\\_downloads](http://www.smc.com/index.cfm?action=tech_support_drivers_downloads)

**World Wide Web**

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

**SMCNAS04/  
SMCNAS24**