TRENDnet®

User's Guide

TS-S402

PREFACE

Congratulations on your purchase of the TS-S402 Network Storage Enclosure. Read this manual carefully and keep it in a safe place for future reference.

Copyright®

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Notice

Product features and specifications described in this manual are subject to change without notice. The manufacturer shall not be liable for any damage or loss of the personal data caused by delay in performance, wrong operation, product service, or other accidental circumstances.

Conventions

The manual uses the following symbols to help you quickly identify the important information.

Used to indicate additional information you need to Know when using your TS-S402 Network Storage Enclosure.

Used to indicate and avoid the risk of data loss or damage to your TS-S402 Network Storage Enclosure.

Regulations

FCC Warning

This equipment has been tested and found to comply with the regulations for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this user's guide, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

CE Mark Warning

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

VCCI Warning

This is a product of VCCI Class B Compliance.

この装置は、情報処理装置等電波障害自主規制協議会（ＶＣＣＩ）の基準に基づくクラスＢ情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

WEEE Notice

This symbol indicates that the product should not be treated as household waste. To ensure protection of the environment, this product should be disposed of in a manner consistent with EU regulations.

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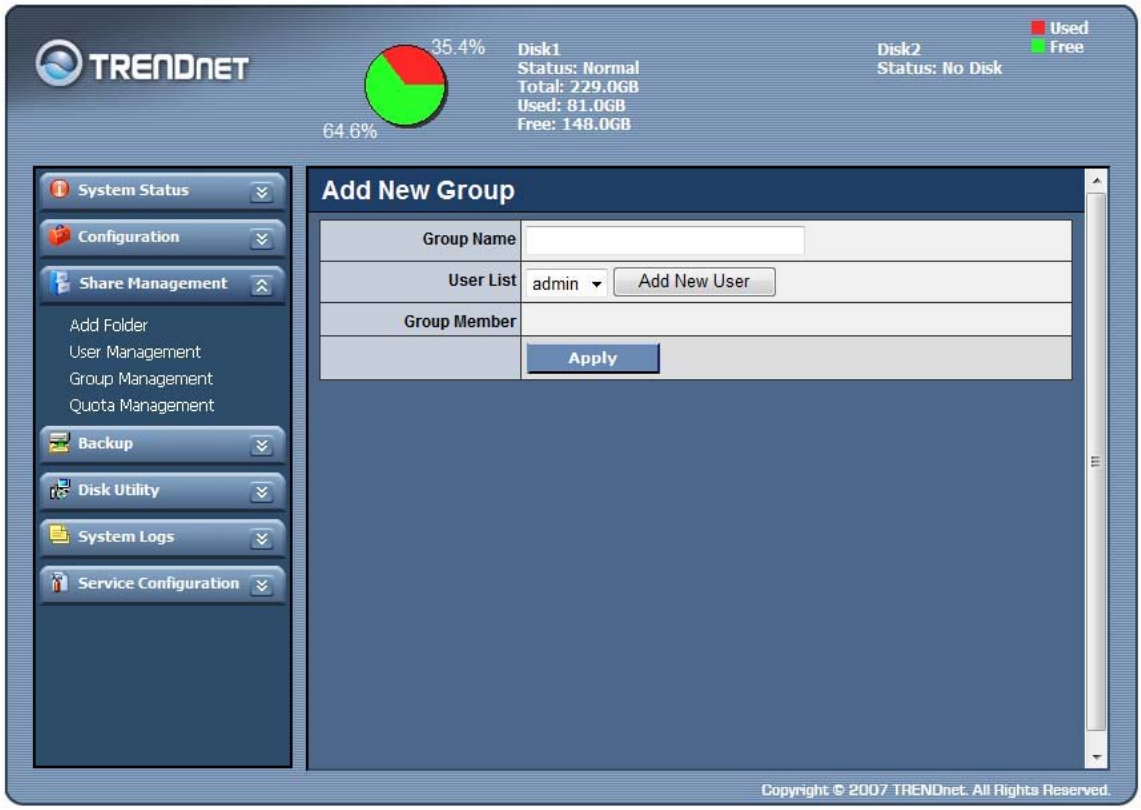

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OVERVIEW

Read this section to familiarize yourself with some of the basic features of the product.

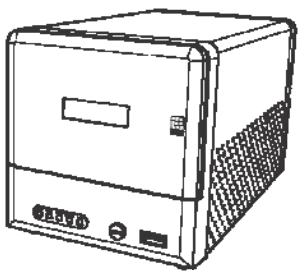
Package Contents

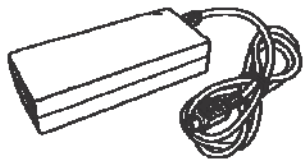
Make sure that the following items are present the package. If anything is missing or damaged, contact your vendor immediately.

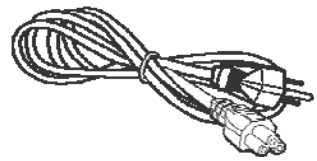
TS-S402 Network Storage Enclosure

Power Cord

Power Adapter

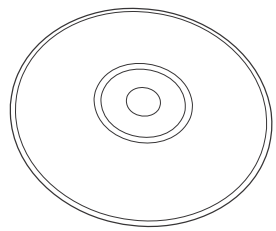






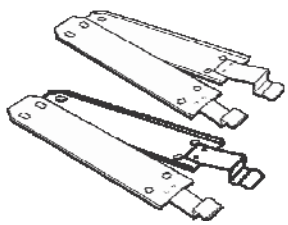
RJ-45 Cable

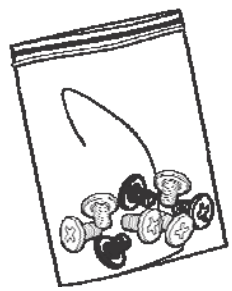
CD



HDD Brackets x 4

Screws x 8





Features

- Supports one 10/100/1000Mbps Auto-MDIX Gigabit Ethernet port for network connection.
- Provides two USB ports for printer and USB storage device connections.
- Supports Windows based utility for Auto-IP discovery and setup, Disk status monitor, Network drive wizard and remote backup.
- Automatically detects new drives when inserted.
- Web-based UI for easy configuration, uses AJAX technology to monitor the disk status (disk usage, format progress, etc) instead of simply refreshing the web page.
- Supports EXT2/EXT3 HDD file formats.
- Supports FAT16, FAT32, and NTFS USB storage file formats.
- Supports JBOD with software, treats two attached disks as one logical disk for access.
- Supports Mirrored (RAID 1), and Striped (RAID 0) RAID formats.
- Supports firmware upgrade via Web UI.
- Supports installation of packages from remote devices.
- Built-in FTP server for users to transfer files using FTP client.
- Supports CIFS/SMB/NFS for Microsoft Network remote users easily retrieve files through ”My Neighborhood”.
- Supports NTP protocol to synchronize clock time.
- Supports unified account management to control all sharing protocols.
- Provides USB one-click backup, to copy USB contents to HDD by pressing just one button.
- Supports file-level backup, speeds up the file transfer rate by transferring only files that are different between remote and local devices.
- Supports scheduler to plan backup events/schedules.
- Supports digital media server compatible with DLNA certified digital media players, and iTunes server.
- Provides formatting function for new HDDs or USB storage devices.
- Supports up to 32 connected users (Samba & FTP) at one time.
- Supports code-page for multiple-language file names (English, German, French, Italian, Spanish, Portuguese, Russian, Japanese, Traditional Chinese, Simplified Chinese, and Korean).Supports FTPS(SSL FTP) protocol.
- Support AppleTalk for Macintosh Network.
- Account management - support group.
- Supports User and Group Quota.
- Download Center (HTTP/FTP Download).
- Supports Dynamic DNS.
- Web login support https and user level.

• Support Jumbo Frame.

• Power Management Setting.

System Requirements

Before using the TS-S402 Network Storage Enclosure, make sure you have a computer with the following requirements:

• 1Ghz processor or higher

• 512 MB RAM or above

• 30 MB available hard disk space

• CD-ROM drive (for software installation)

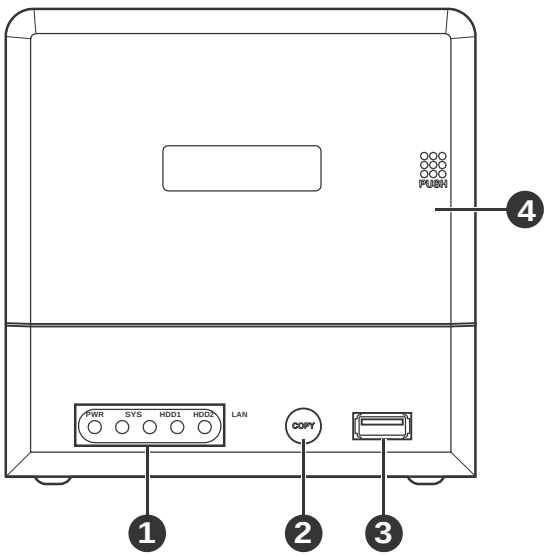
• Installed network adapter

• Any installed web browser to view the web UI

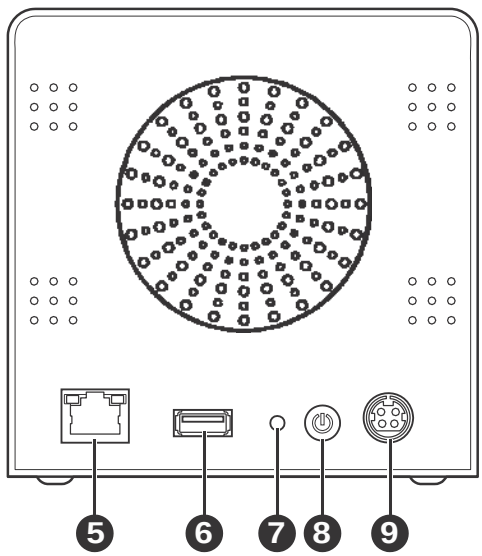
• Windows XP SP2, Windows 2000 SP6, or Windows Vista (for Windows based configuration utility) operating system

Product Overview

Front View



Rear View

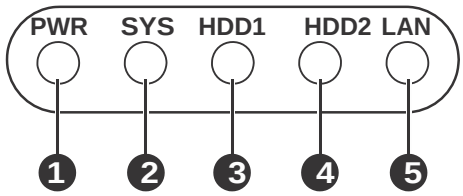


1	Front panel LED indicators
2	USB one-click backup button
3	USB port
4	HDD enclosure door

5	LAN port
6	USB port
7	Reset button
8	Power button
9	Power jack

LED Definitions

The TS-S402 Network Storage Enclosure comes with five LED indicators on the front panel. See the below table for descriptions of these LED indicators.



No.	LED	LED Color	Description
1	Power LED	Green	Indicates the device is turned on.
		Off	Indicates the device is turned off.
2	System LED	Green	Indicates the device is ready for use.
		Blinking Green	Indicates the device is in the system boot process.
3	HDD1 Access LED	Green	Indicates HDD1 link.
		Amber	Indicates HDD1 link and the capacity is less than 10%.
		Blinking Green	Indicates HDD1 activity.
		Blinking Amber	Indicates HDD1 activity and the capacity is less than 10%.
4	HDD2 Access LED	Green	Indicates HDD2 link.
		Amber	Indicates HDD2 link and the capacity is less than 10%.
		Blinking Green	Indicates HDD2 activity.
		Blinking Amber	Indicates HDD2 activity and the capacity is less than 10%.
5	LAN LED	Green	Indicates network link.
		Blinking Green	Indicates network activity.

The LAN port, on the rear of the TS-S402 Network Storage Enclosure, is equipped with two LED indicators representing the LAN link mode. The following table gives the detailed definitions for each LED indicator.

No.	LED Color	Description
1	Green	Indicates Ethernet link in 1000Mbps mode.
2	Amber	Indicates Ethernet link in 10/100Mbps mode.

UNDERSTANDING RAID LEVELS

This section introduces the basic concepts of RAID 0, RAID 1, and JBOD. Each one is accompanied with illustrations, to help deepen your understanding of RAID. This allows you to make use of the RAID feature with your hard disks for improved performance and data security.

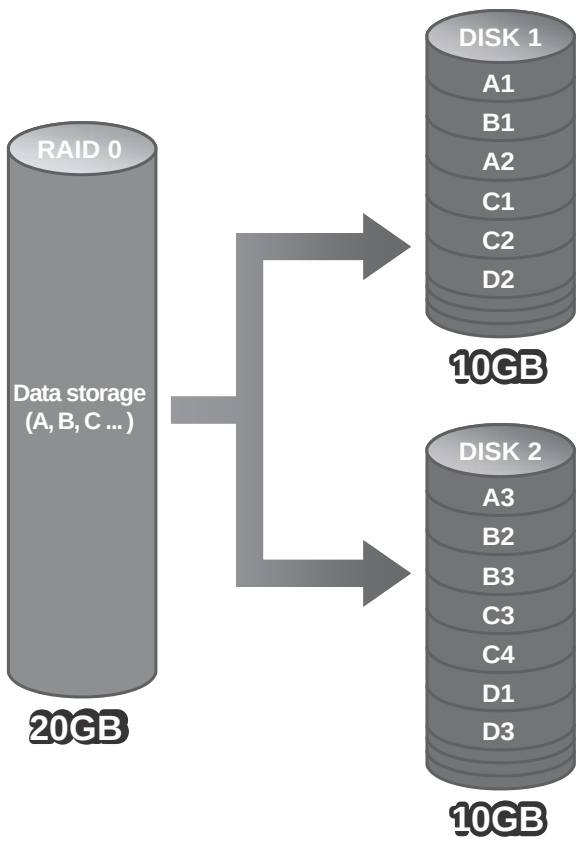
RAID 0

RAID 0, known as disk striping, has generally the best performance, but does not offer any redundancy. In this level, data is broken into small units called sectors, and sectors are distributed across all disks in the array. As it does not provide any data protection, if any disk in the array fails then all data in the array is lost. Such stripes allocation allows to enhance I/O performance.

Characteristics

- Storage capacity = (number of disks) x (size of the smallest disk)
- A minimum of two disks is required.
- Extremely high performance in both read and write
- No fault-tolerance

The following diagram shows how the TS-S402 Network Storage Enclosure implements the RAID 0 algorithm
by dividing data into blocks and distributing them across the two installed disks.



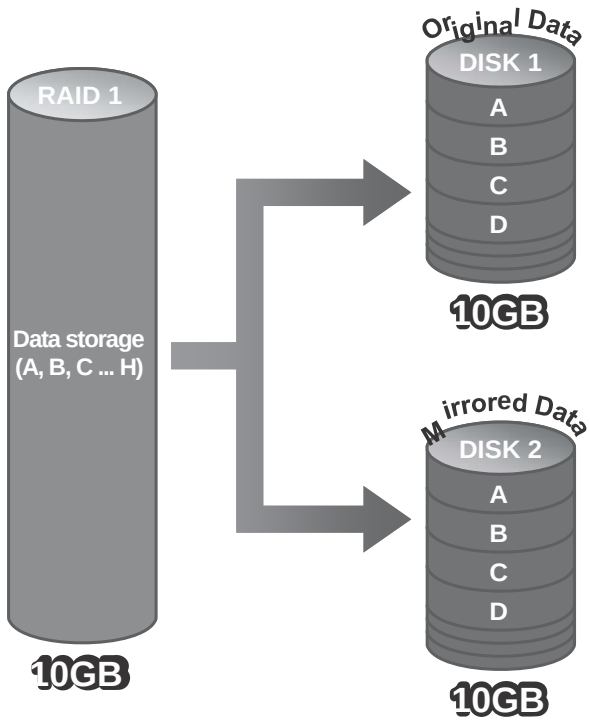
RAID 1

RAID Level 1, known as disk mirroring, is a popular approach to protect data from a disk failure. To implement RAID Level 1, you need at least two physical hard drives. As the disks are paired up, all disk writes are duplicated on both disks. You can back up data without interruption using this algorithm. In case of a disk failure, the system can continue to run without being affected.

Characteristics

- Storage capacity is equal to the size of the smallest disk.
- The disks are peers, containing the same data. (Minimum of two disks)
- Twice the read transaction rate of single disks
- Very high fault-tolerance
- One of most available solutions
- 100% data redundancy. Suitable for users who require data stability and the ability to back up data.

The following diagram shows how both physical disks are seen as a single drive by the TS-S402 Network Storage Enclosure. If one disk fails, you do not need to worry about damage to the data as the other one contains an identical copy of the data.



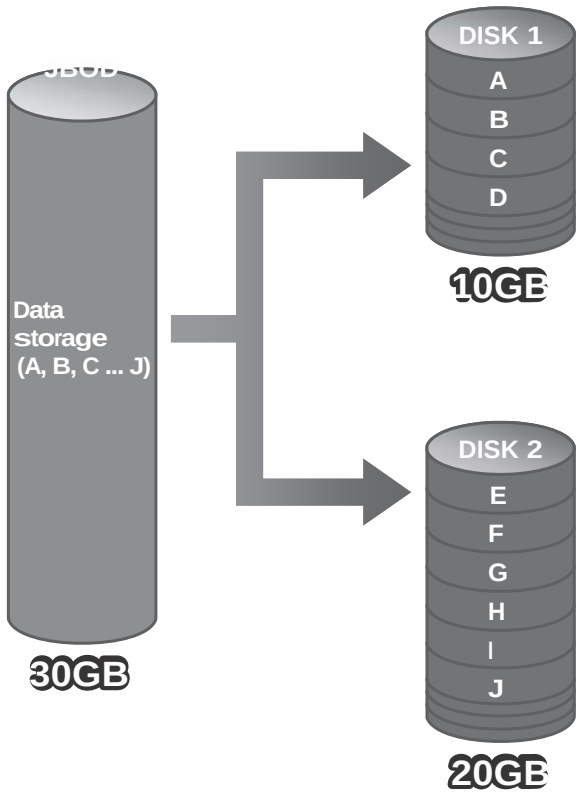
JBOD

JBOD (Just a Bunch Of Disks) is a group of disks. JBOD is not technically RAID but "disk spanning." In this mode, all the disks are grouped together so they appears as a large single disk. Each disk can operate independently and is seen as an individual disk. Therefore, the total capacity of JBOD is the sum of the capacities of each disk. This allows the user to add disks until the desired total capacity is reached. Since JBOD provides no performance increase and data protection, it is seldom used.

Characteristics

- Large capacity
- No redundancy

The following diagram shows how each disk represents a separate physical disk drive. The JBOD algorithm simply groups these two hard disks to increase the storage capacity on the TS-S402 Network Storage Enclosure. Each hard disk still functions as an individual disk.



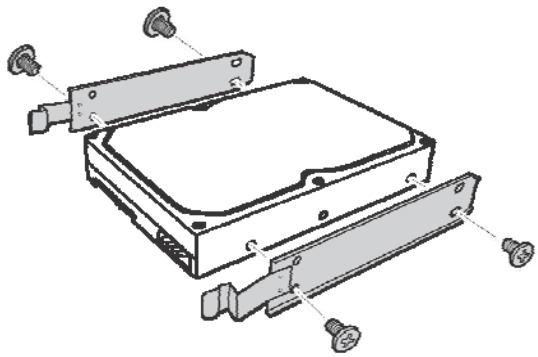
GETTING STARTED

This section provides information to help you set up your TS-S402 Network Storage Enclosure before you can use it.

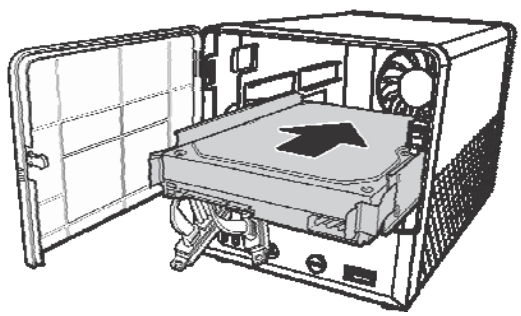
Installing Hard Disks

The TS-S402 Network Storage Enclosure supports up to two Serial ATA (SATA) hard disks. To install hard disks into the TS-S402 Network Storage Enclosure, follow the steps as described below.

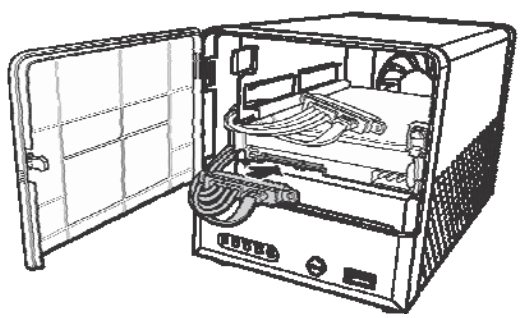
1. Secure the supplied HDD brackets to the both sides of a 3.5” hard disk using four screws as shown.



2. Push to open the HDD enclosure door and install the hard disk into the TS-S402 Network Storage Enclosure as shown.



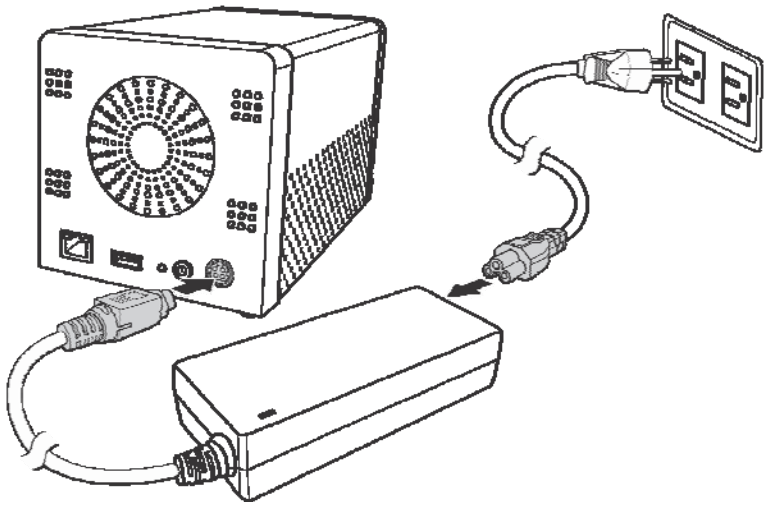
3. Connect the SATA cable connector to the hard disk.



4. Repeat the same steps to install the second hard disk.
5. Close the HDD enclosure door when the installation is complete.

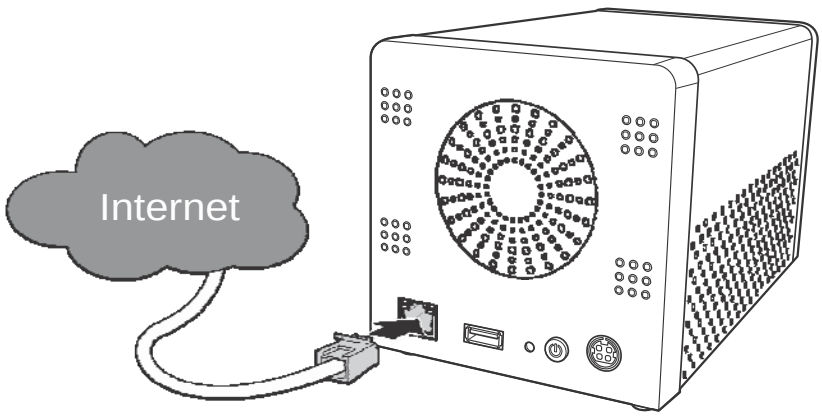
Connecting the Power

1. Connect one end of the supplied power adapter to the power jack on the rear of the TS-S402 Network Storage Enclosure.
2. Then connect one end of the power cord to the power adapter and the other end to a wall outlet as shown.



Connecting to a Network

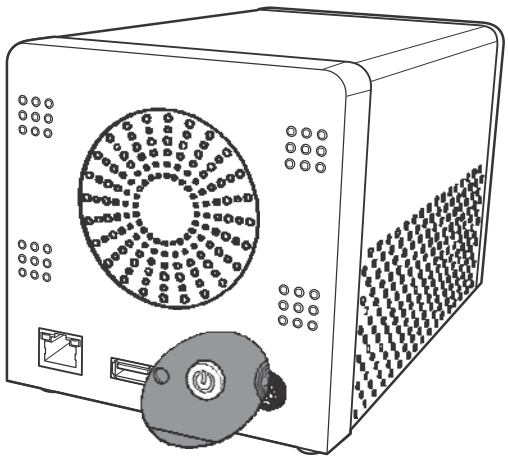
1. Connect one end of the supplied RJ-45 cable to an available port on your network hub or router.
2. Connect the other end of the RJ-45 cable to the LAN port on the rear of the TS-S402 Network Storage Enclosure.



Turning Your TS-S402 Network Storage Enclosure On and Off

To turn your TS-S402 Network Storage Enclosure on, press and hold the POWER button on the rear of the TS-S402 Network Storage Enclosure at least 1 second.

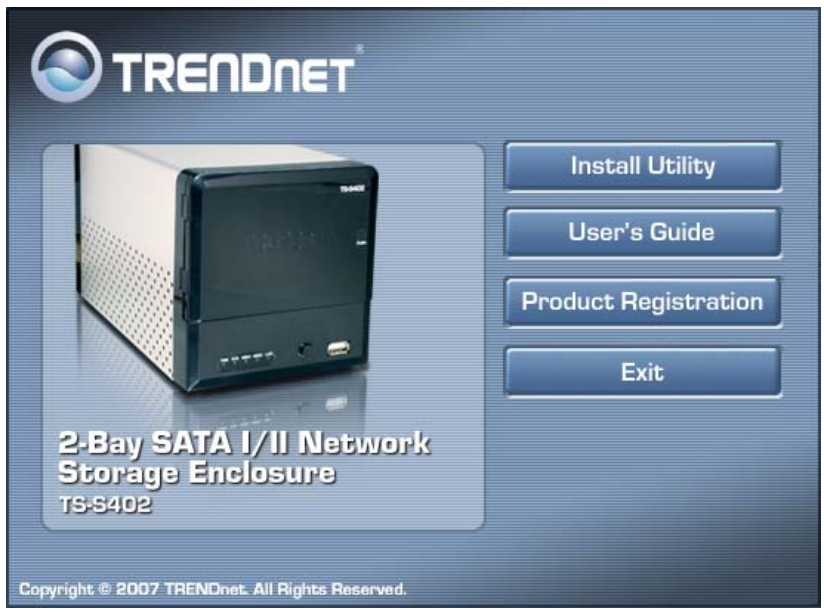
To turn your TS-S402 Network Storage Enclosure off, press and hold the POWER button on the rear of the TS-S402 Network Storage Enclosure at least 5 seconds.



Installing the NAS Utility

You can run the NAS Utility on either a Windows® XP or Windows® Vista operating system. Follow the steps below to install the NAS Utility onto your computer.

1. Turn on your computer and insert the supplied Utility CD into the CD-ROM Drive.
2. Select Install Utility from the following pop-up screen. The installation program starts automatically.



3. If the CD does not start up automatically, browse your CD-ROM drive and double click the Setup.exe file.
4. Follow the on-screen instructions to install the utility.
5. Upon completion, you can start to manage your TS-S402 Network Storage Enclosure with the NAS Utility.

Uninstalling the NAS Utility

Follow the steps below to uninstall the NAS Utility from your computer.

1. You can remove the NAS Utility from the program entry in the Start menu or via the Control Panel.

• Windows Vista users:

- Go to **Start > All Programs > NAS Utility > Uninstall NAS Utility**.

  OR

- Go to **Control Panel > Programs and Features**, select **NAS Utility**, and click the **Uninstall/Change** button to start uninstall process.

• Windows XP users:

- Go to **Start > Programs > NAS Utility > Uninstall NAS Utility**.

  OR

- Go to **Control Panel > Add or Remove Programs**, select **NAS Utility**, and click the **Change/Remove** button to start uninstall process.

If your installation directory is different other than the default, locate from the directory you specified for the **NAS Utility**.

2. A message pops up for the NAS Utility uninstalling confirmation. Click Yes to continue or No to abort.
3. The uninstaller starts to remove the NAS Utility from your computer.

Initializing and Accessing Your TS-S402 Network Storage Enclosure

To launch the NAS Utility, double click the NAS Utility icon (

) from your desktop or the program entry in the Start menu. If you are using the default installation directory, locate the NAS Utility as described below:

• Windows Vista users: Go to Start > All Programs > NAS Utility > NAS Utility.

• Windows XP users: Go to Start > Programs > NAS Utility > NAS Utility.

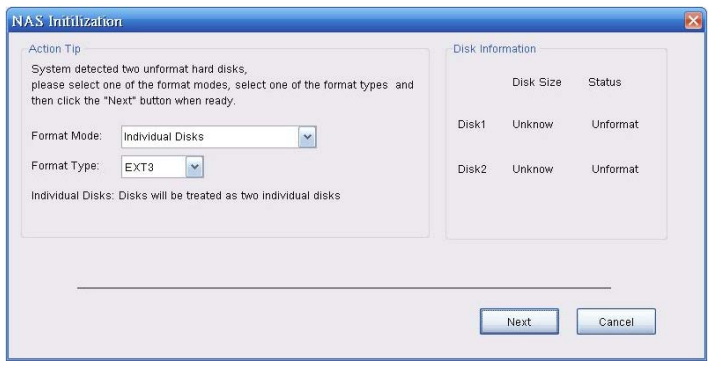
If the hard disks are being installed for the first time, you need to initialize the disks before you can use them. Follow the steps described below.

Formatting the installed hard disks

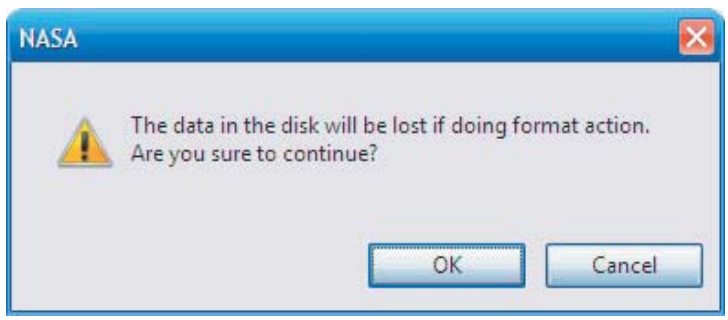
1. Select the format mode and type from the drop-down menus. The available options are listed as below. After making your selection, click Next to continue.

   - **Format Mode**: Individual disks, RAID 0 (Striped), RAID 1 (Mirrored), and JBOD (Just a Bunch of Disks)

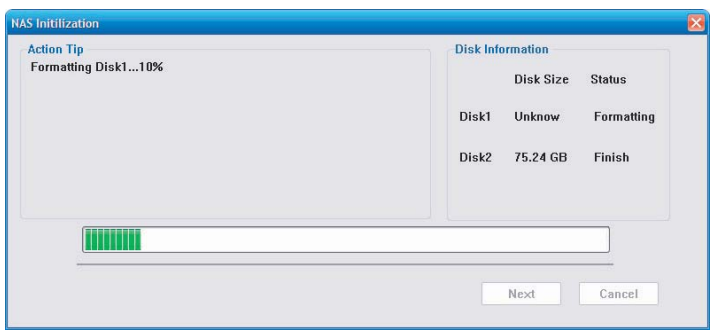
   - **Format Type**: EXT2 and EXT3



2. The following message pops up to make you aware of the data loss resulting in this action. Click OK to continue.



3. The system starts to format the hard disks.

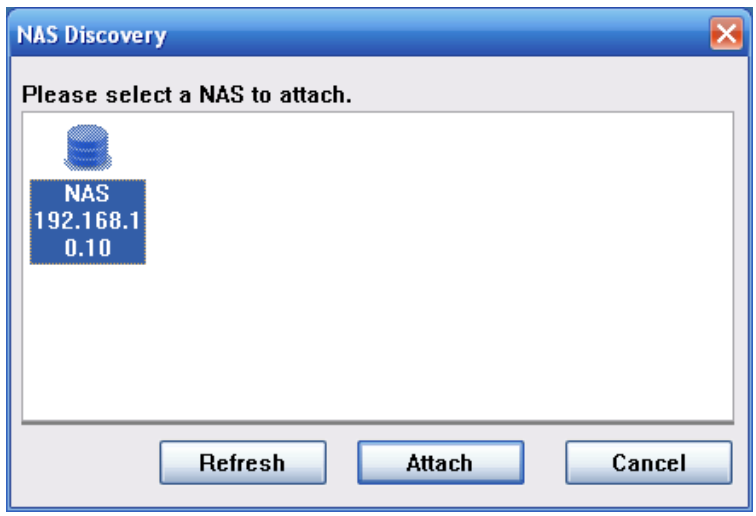


The time required to format hard disks may differ depending on the hard disk size.

4. When the format is complete, click Finish.

Attaching the TS-S402 via NAS Utility

Each time you launch the NAS Utility, the following screen appears. All the Multimedia NAS devices connected to the network are displayed here. Select a TS-S402 Network Storage Enclosure
and click Attach. You can click Refresh to refresh the screen at any time (The default IP address of the TS-S402 Network Storage Enclosure is ***192.168.10.10***).



Each TS-S402 Network Storage Enclosure device may be displayed as one of the following icons according
to its connectivity.

The TS-S402 Network Storage Enclosure is connected correctly.

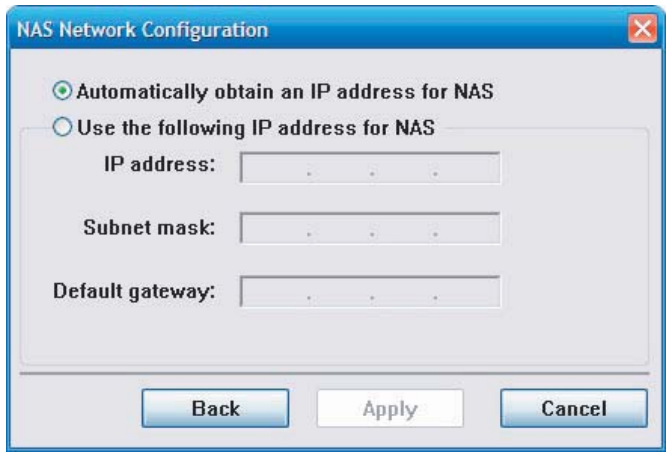
The TS-S402 Network Storage Enclosure cannot be detected in one of the following conditions:

- The TS-S402 Network Storage Enclosure is not turned on, unplugged or is in an incorrect subnet.

The assigned IP address of the TS-S402 Network Storage Enclosure is incorrect for the current network.

Network configuration

If the IP address of the TS-S402 Network Storage Enclosure is inconsistent with your network domain, the following screen appears to prompt you to change the IP address of the TS-S402 Network Storage Enclosure. Ensure the changed IP address belongs to your network domain.



Login

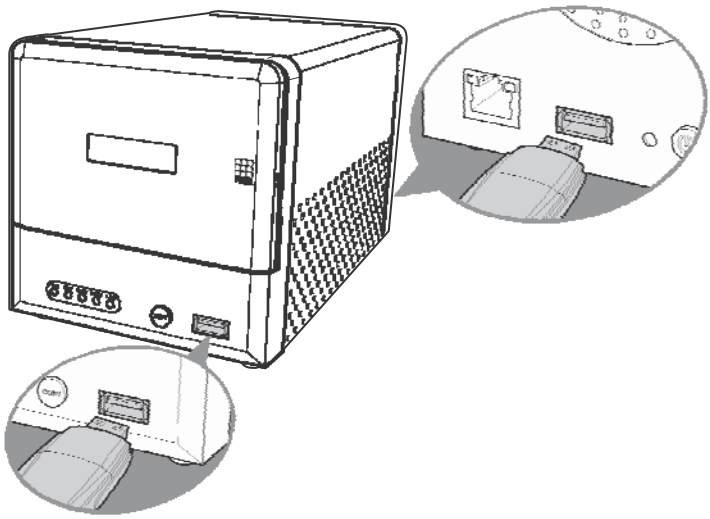
After you have connected to a TS-S402 Network Storage Enclosure, the following screen appears. Enter the default administration username (admin) and password (admin). Click **Login** to launch the NAS Utility.

Check the **Remember my password** option so that you do not have to type in the username and password for each time login.

USING EXTERNAL USB DEVICES

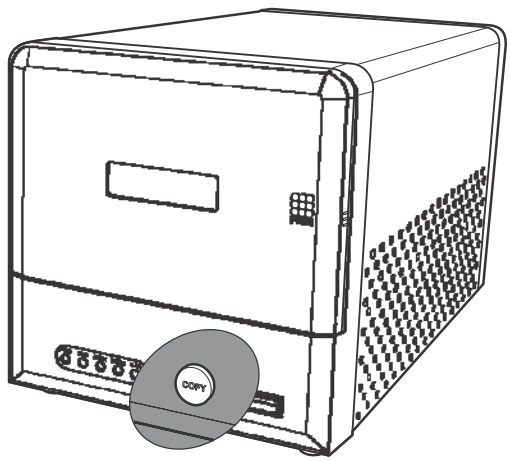
Connecting USB Devices

Connect a USB device, such as a USB flash drive or USB printer, to one of the USB ports on the front or rear of the TS-S402 Network Storage Enclosure as shown.



Using the USB One-Click Backup Button

With the convenient USB one-click backup button on the front of the TS-S402 Network Storage Enclosure, you can backup the data stored in the connected USB devices to your computer by simply pressing the USB one-click backup button as shown. All the data from the connected USB devices will be backed up to the share folder in the TS-S402 Network Storage Enclosure.



Disconnecting USB Devices

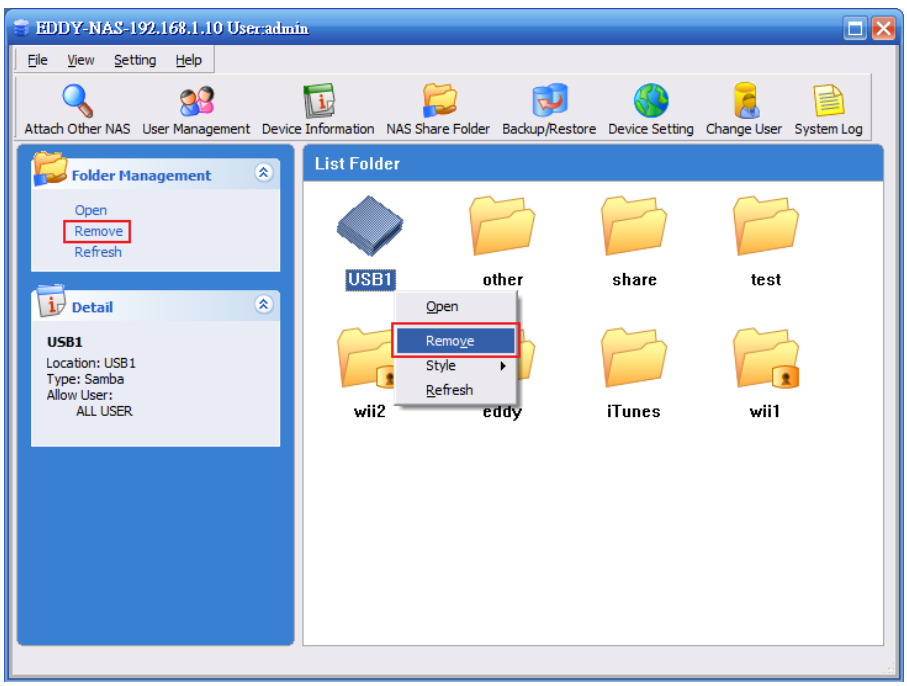
To safely remove a USB device from the TS-S402 Network Storage Enclosure, we suggest first remove the device via the NAS Utility or the Web-based Configuration Tool.

When removing USB devices via the NAS Utility:

1. Open the NAS Utility as described in the section **"Initializing and Accessing Your TS-S402 Network Storage Enclosure".**
2. Select **View > Share Folder** from the menu bar, OR click **NAS Share Folder (** **)** from the quick access tool bar. The **NAS Share Folder** screen displays.
3. From the **NAS Share Folder** main screen, select the USB device you want to remove, click Remove under Folder Management.

   OR

   Right-click the USB device you want to remove, and then select **Remove** from the pop-up menu.

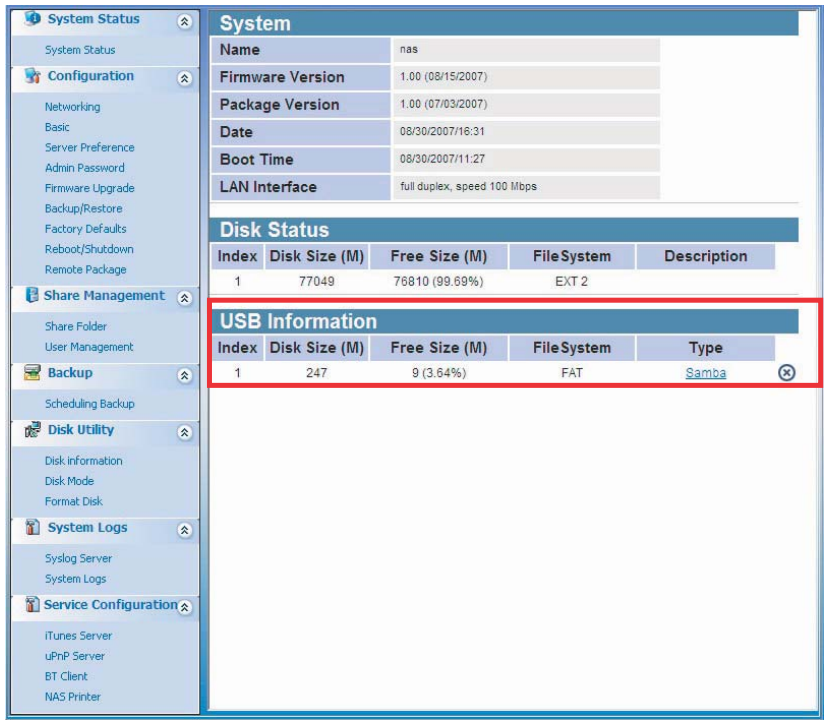


4. A confirmation message appears. Click **OK** to confirm or **Cancel** to abort.
5. When the USB device is removed, a message pops up telling you that it is safe to unplug the USB device from the TS-S402 Network Storage Enclosure.

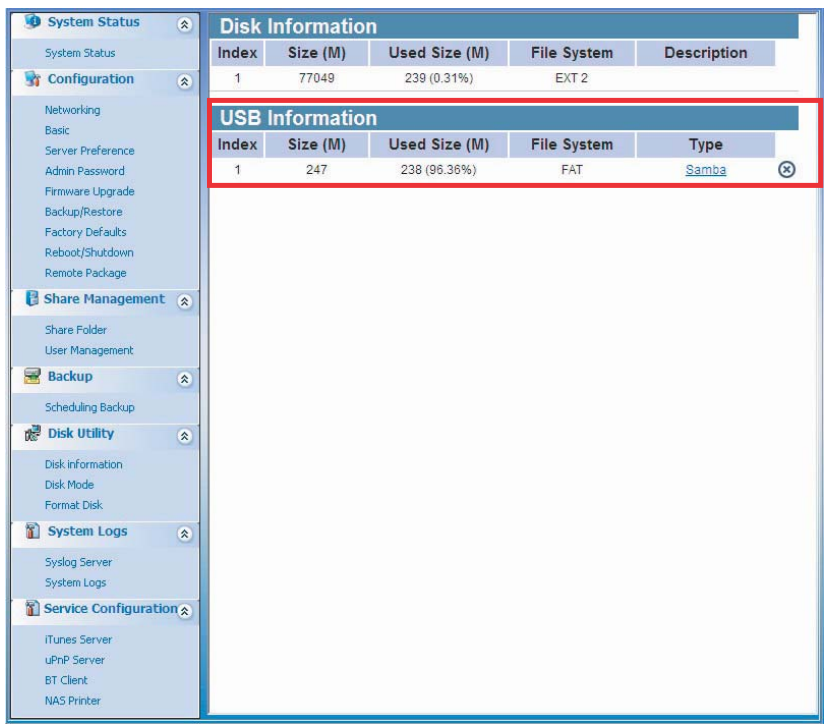
When removing USB devices via the Web-based Configuration Tool:

1. Open the Web-based Configuration Tool as described in the section **"Launching the Web-based Configuration Tool"**.
2. From the left panel of the Web-based Configuration Tool, click **System Status > System Status** or **Disk Utility > Disk Information**.
3. All connected USB devices are displayed in the **USB Information** section.

(The **System Status** screen)



(The **Disk Information** screen)



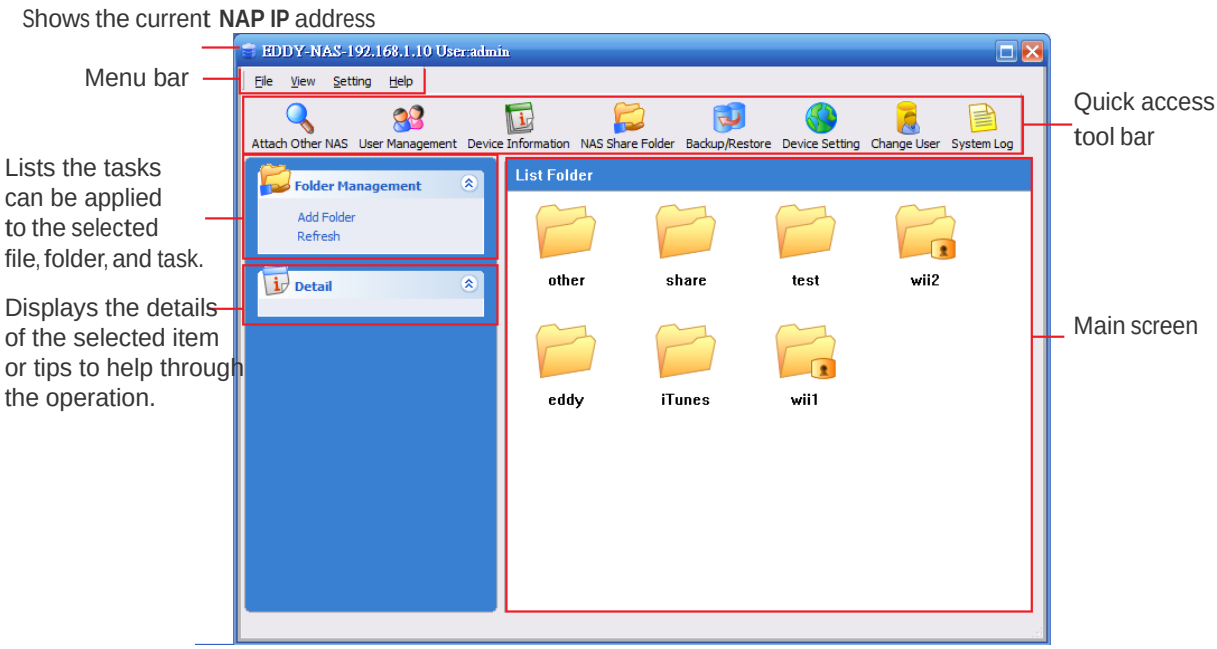
4. Click the **Delete** ( ) button to remove the USB device from the list.
5. You can now unplug the USB device from the TS-S402 Network Storage Enclosure.

USING THE NAS UTILITY

Read this section to learn about the main features of the NAS Utility.

NAS Utility Overview

The NAS Utility provides an user-friendly interface for you to manage your TS-S402 Network Storage Enclosure in a fast and easy way. The following illustrates the layout of the NAS Utility main screen.



The following table provides a list of options under each menu.

File	
Attach Other NAS	Allows you to attach other TS-S402 Network Storage Enclosure on your network.
User Management	Allows you to configure and manage the user's access to the TS-S402 Network Storage Enclosure.
Exit	Exit the NAS Utility.

View	
Share Folder	Allows you to configure and view the folders in your TS-S402 Network Storage Enclosure.
Backup/Restore	Allows you to configure a backup task.
Device Information	Displays the information of the attached TS-S402 Network Storage Enclosure.

System Log	Allows you to manage and view all the log messages generated from the TS-S402 Network Storage Enclosure.
Setting	
Device Setting	Opens the Web-based Configuration Tool.
Help	
About	Displays the current firmware version of the TS-S402 Network Storage Enclosure.

Attach Other NAS

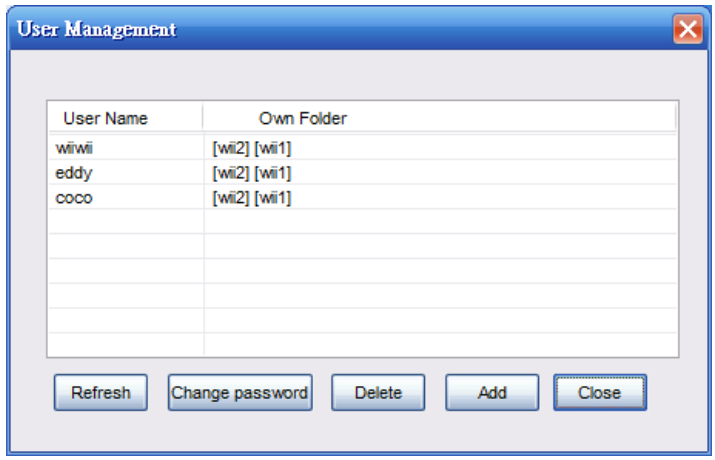
Use this feature to connect to another TS-S402 Network Storage Enclosure on your network.

Select **File > Attach Other NAS** from the menu bar, OR click **Attach Other NAS** ( ) from the quick access tool bar. The **NAS Discovery** screen displays. Select a TS-S402 Network Storage Enclosure and log in with the correct username and password.

User Management

Use this feature to add users, remove users, change the password of a user, and view the users who have the access right for the current attached TS-S402 Network Storage Enclosure.

To configure the settings, select **File > User Management** from the menu bar, OR click **User Management** ( ) from the quick access tool bar. The following screen displays.



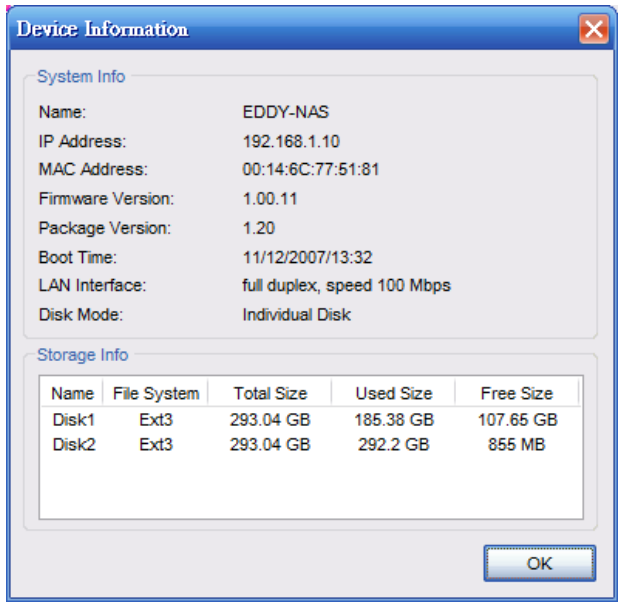
See below for descriptions of each button function.

Button	Description
Refresh	Click to refresh the user list.
Button	**Description**
Change password	Click to change the password of the selected user.
Delete	Click to delete the user.
Add	Click to create a new user account. Enter the username and password as required.
Close	Click to exit the window.

Device Information

Use this feature to view the current attached TS-S402 Network Storage Enclosure system and storage disk information.

Select **View > Device Information** from the menu bar, OR click **Device Information** ( ) from the quick access tool bar. The following screen displays.



The following details are displayed in this screen. Click OK to exit this screen.

System Info

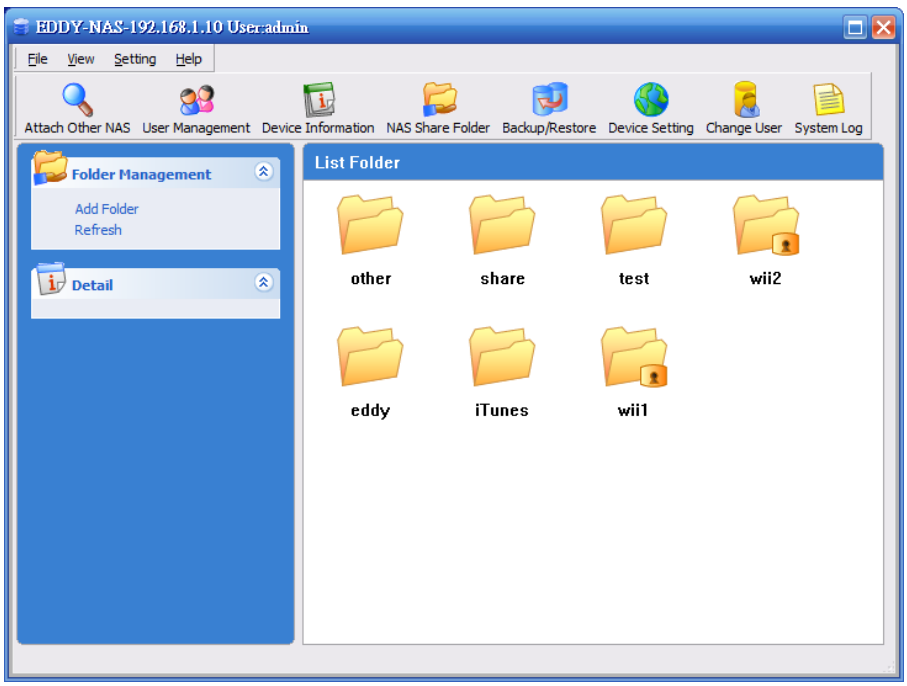
- NAS system name
- IP address
- MAC address
- Firmware version
- Package version
- Boot time
- LAN interface
- Disk mode

Storage Info

- Name of installed disks
- File system
- Total size
- Used size
- Free size

NAS Share Folder

To open the **NAS Share Folder screen**, select **View > Share Folder** from the menu bar, OR click **NAS Share Folder (** **)** from the quick access tool bar. The **NAS Share Folder** screen displays.



The NAS Utility provides these icons to indicate each type of the folder or drive.

A public folder

A private folder

A network drive

A USB drive

Creating a new folder

To create a new folder, do the following:

1. From the **NAS Share Folder** screen, click **Add Folder** under Folder Management.
   OR

   Right-click anywhere in the **NAS Share Folder** main screen, and then select **Add Folder** from the pop-up menu.

2. The following window appears.

   Specify the following options, then click **Create**.

   - **Disk Name:** The disk for the new folder to be created on.
   - **Folder Name:** Type the name for the folder.
   - **Protocol Type:** Samba (default), FTP, or NFS
   - **Folder Type:** Public (default), or Private

3. A new folder is created.

Deleting a folder

To remote a new folder, do the following:

1. From the **NAS Share Folder** screen, select the folder you want to delete, then click **Delete** under Folder Management. OR

   Right-click the folder you want to delete, and then select **Delete** from the pop-up menu.

2. A confirmation message appears. Click **OK**.
3. The selected folder is deleted.

Editing folder properties

Use this function to rename the folder, change the folder protocol, or configure the folder for public or private access.

To edit a folder, do the following:

1. From the **NAS Share Folder** screen, select the folder you want to edit, and then click **Edit** under Folder Management.

   OR

   Right-click the folder you want to edit, and then select **Edit** from the pop-up menu.

2. Make required changes to the folder.

The **share** folder is the system default folder, you cannot delete it or modify its settings.

Mounting a folder as a network drive

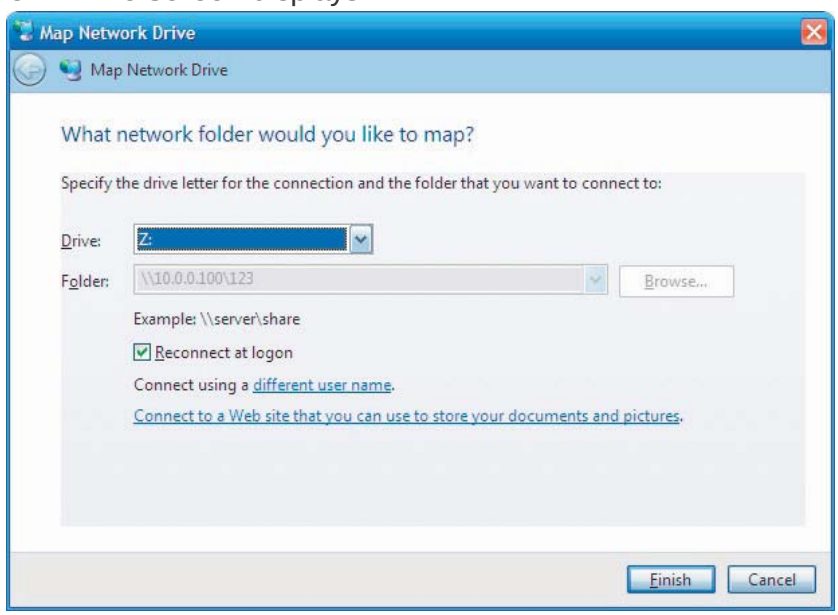
To mount a folder as a network drive, do the following:

1. From the **NAS Share Folder** screen, select the folder you want to mount, and then click **Mount** under Folder Management.

   OR

   Right-click the folder you want to mount, and then select **Mount** from the pop-up menu.

2. The **Map Network Drive screen** displays.



3. Select a drive letter from the drop-down list.
4. Check the **Reconnect at login** option to mount this network drive automatically each time you log in to your computer.
5. Click **Finish**. The selected folder is mounted to the network.

To unmount a folder from the network,

- Select the folder you want to cancel the mapping, then click Unmount under Folder Management.

  OR

- Right-click the folder you want to cancel the mapping, and then select **Unmount** from the pop-up menu.

Refreshing the folder listings

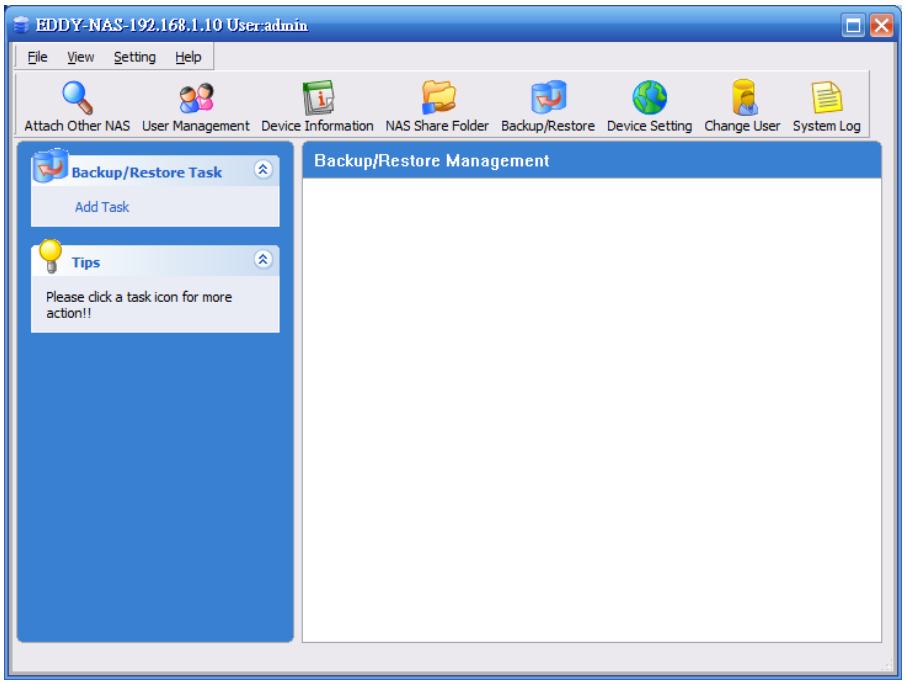
To refresh the **NAS Share Folder** screen, click **Refresh** under Folder Management or right-click anywhere in the **NAS Share Folder** main screen, and then select **Add Folder** from the pop-up menu.

Changing the folder style

The **NAS Share Folder** provides two styles for you to view a list of folders: **Icon Style** and **Report Style**. Right-click anywhere in the **NAS Share Folder** main screen, then select **Style** from the pop-up menu.

Backup/Restore

To open the **Backup/Restore screen**, select **View > Backup/Restore** from the menu bar, OR click **Backup/Restore (** **)** from the quick access tool bar. The **Backup/Restore** screen displays.



The NAS Utility provides these icons to indicate the status of each backup task.

A scheduled backup task

An unscheduled backup task

Backup task in progress

Adding a backup task

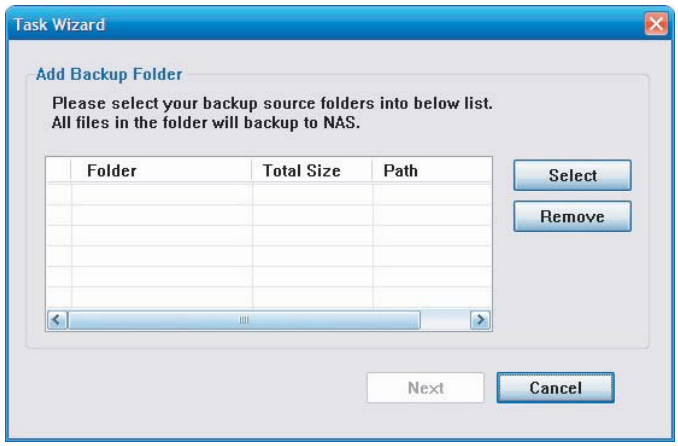
To create a new folder, do the following:

1. From the **Backup/Restore** screen, click **Add Task** under Backup/Restore Task.

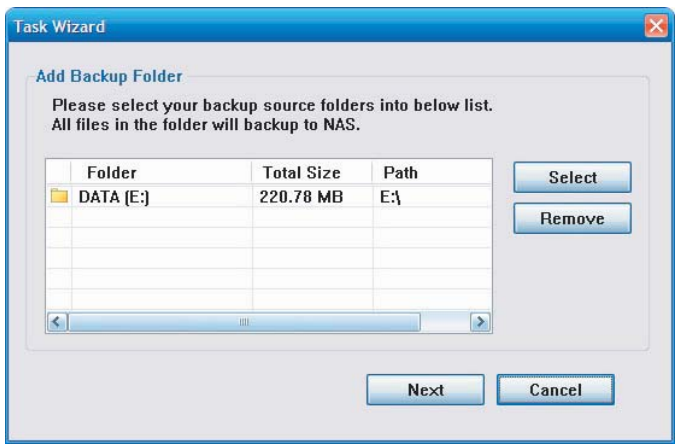
   OR

   Right-click anywhere in the **Backup/Restore** main screen, and then select **Add Task** from the pop-up menu.

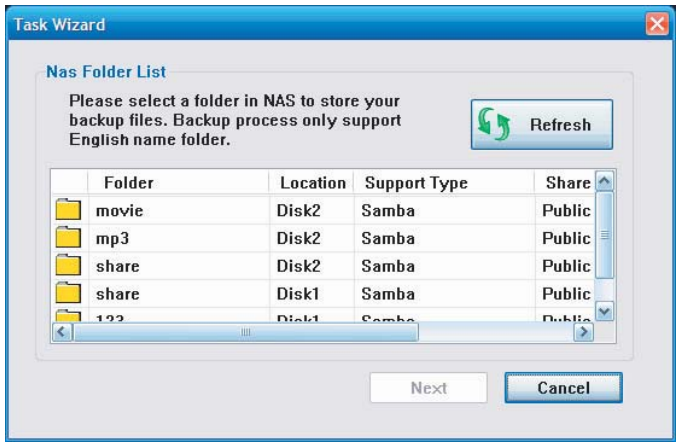
2. The following window appears. Click **Select** to browse for the source folder you want to back up to the TS-S402 Network Storage Enclosure.



3. The select source folder appears in the list as shown. Click **Next** to continue.

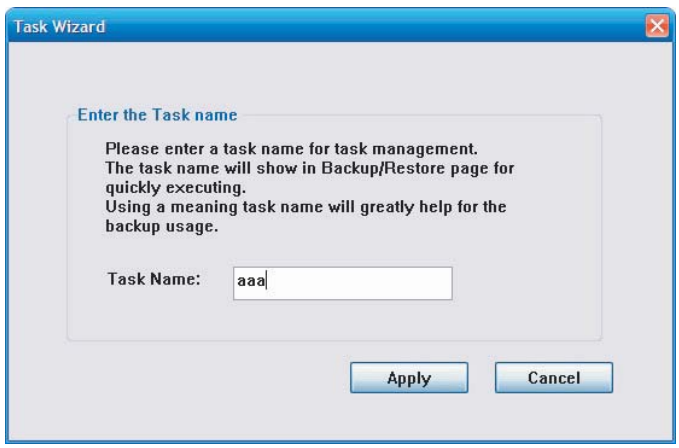


4. Select the target folder of the TS-S402 Network Storage Enclosure for the files to be backed up to. Click **Next**.



The backup/restore feature only supports share folders in English characters.

5. Enter the task name, and click **Apply**.



6. A message pops up to ask if you want to set the task schedule at this moment. Click **Yes** if you want to set the schedule, or **No** to set it later.
7. A backup task is created.

Deleting a backup task

To remove a backup task, do the following:

1. From the **Backup/Restore** screen, select the backup task you want to delete, then click **Delete Task** under Backup/Restore Task.

   OR

   Right-click the backup task you want to delete, and then select **Delete Task** from the pop-up menu.

2. A confirmation message appears. Click **Yes**.
3. The selected backup task is deleted.

Editing a backup task

Use this function to change the source and target folders for a backup task. To edit a backup task, do the following:

1. From the **Backup/Restore** screen, select the backup task you want to modify, then click **Edit Task** under Backup/Restore Task.

   OR

   Right-click the backup task you want to modify, and then select **Edit Task** from the pop-up menu.
2. Follow the on-screens instructions to make changes to the backup task.

Starting a backup task

If you want to perform the backup task immediately, do the following:

1. From the **Backup/Restore** screen, select the backup task you want to start, then click **Backup Now** under Backup/Restore Task.

   OR

   Right-click the backup task you want to start, and then select **Backup Now** from the pop-up menu.
2. A confirmation message appears. Click **Yes** to start the selected backup task immediately.

3. The selected backup task starts.
4. When the backup task is complete, click **Close** to close the progress window.

Setting a backup schedule

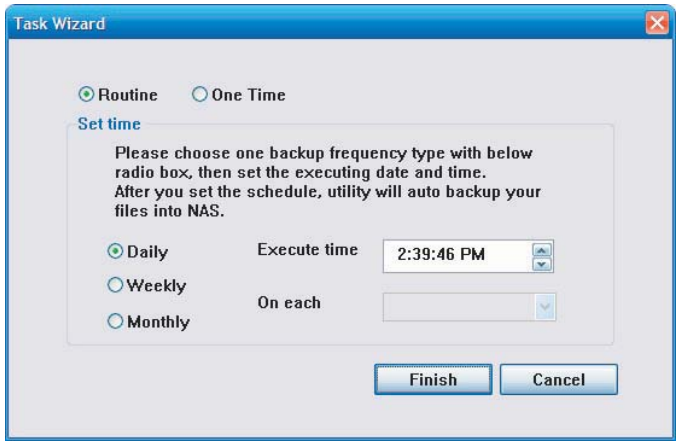
To schedule a backup task, do the following:

1. From the **Backup/Restore** screen, select the backup task you want to schedule, then click **Schedule Setting** under Backup/Restore Task.

   OR

   Right-click the backup task you want to schedule, and then select **Schedule Setting** from the pop-up menu.

2. A confirmation message appears. Click **Yes**. The following screen appears.



3. Specify for a **Routine** or **One Time** schedule.
4. If **Routine** is selected, specify a daily, weekly, or monthly backup task, and configure the start time.

   If **One Time** is selected, specify a specific date and time to start the backup task.
5. Click **Finish** to complete the setting.
6. The pop-up window displays the task setting information. Click **Yes** to confirm.

Removing a backup schedule

To cancel a backup task schedule, do the following:

1. From the **Backup/Restore** screen, select the backup task you want to cancel its schedule, then click **Remove Schedule** under Backup/Restore Task.

   OR

   Right-click the backup task you want to cancel the schedule, and then select **Remove Schedule** from the pop-up menu.
2. A confirmation message appears. Click **Yes**.
3. The selected backup task schedule is removed.

Viewing task properties

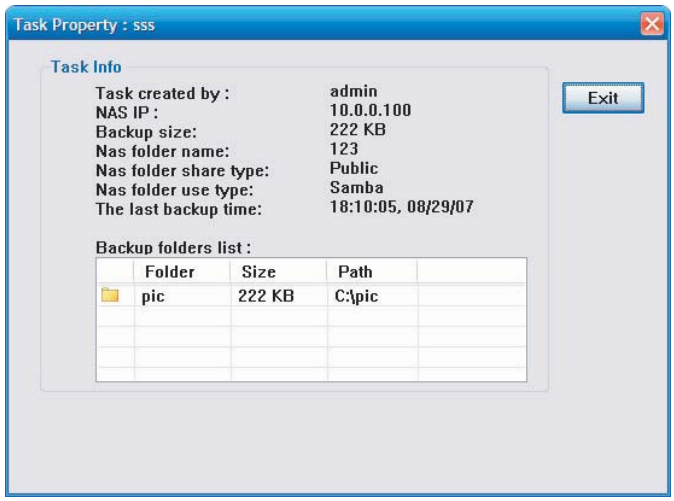
To view task information, do the following:

1. From the **Backup/Restore** screen, select the backup task you want to view its details, then click **Show Property** under Backup/Restore Task.

   OR

   Right-click the backup task you want to view the details, and then select **Show Property** from the pop-up menu.

2. The following details of the backup task are displayed in this screen. Click **OK** to exit this screen.



Device Setting

Use this feature to launch the Web-based Configuration Tool, which allows you to configure more settings for your TS-S402 Network Storage Enclosure.

To open the Web-based Configuration Tool, select **Setting > Device Setting** from the menu bar, OR click **Device Setting (** **)** from the quick access tool bar.

For more information on the Web-based Configuration Tool, refer to the next chapter **"Using the Web-based Configuration Tool"**.

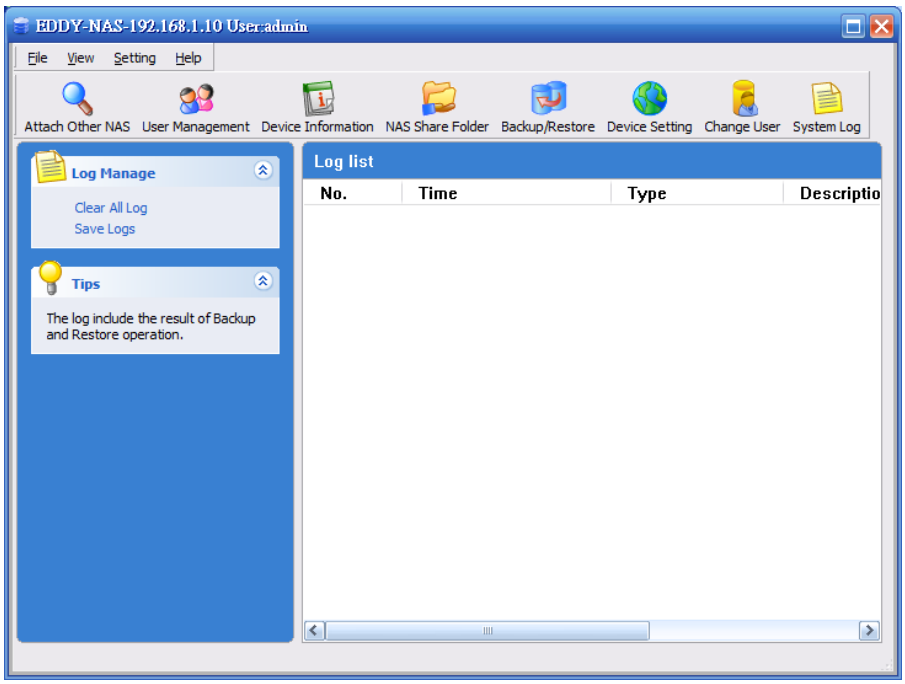
Change User

To login in different user account:

System Log

To open the **System Log screen**, select **View > System Log** from the menu bar,

OR click **System Log (** **)** from the quick access tool bar. The **System Log** screen displays.



Clearing all the logs

To clear all the log messages generated from the TS-S402 Network Storage Enclosure, do the following:

1. From the **System Log** screen, click **Clear All Log** under Log Message.

   OR

   Right-click anywhere in the **System Log** main screen, and then select **Clear All log** from the pop-up menu.
2. A confirmation message appears. Click **Yes**.
3. Click **Yes** if you are sure to clear all logs.
4. All the system logs are cleared.

Saving logs to a file

You can save all the log messages to a txt file. Click **Save Logs** under Log Message from the **System Log** screen. A “Save As” window appears. Type a file name, and click **Save** to save all the log messages to a file.

USING THE WEB-BASED CONFIGURATION TOOL

Launching the Web-based Configuration Tool

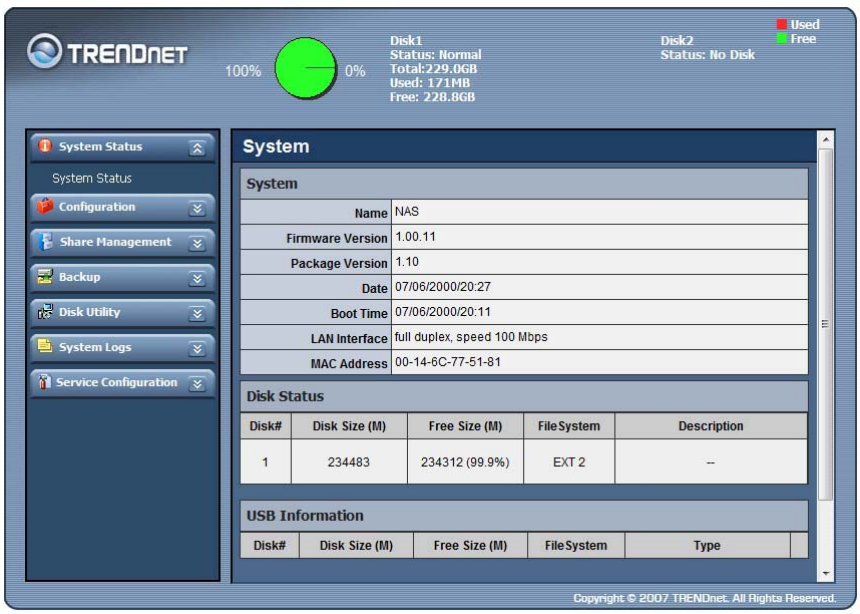
You can configure more settings for your TS-S402 Network Storage Enclosure through the web browser. Enter the IP address of your TS-S402 Network Storage Enclosure (the default IP address is **http://192.168.10.10**) to access the configuration settings. You can also use the Device Setting feature in the NAS Utility (see **"Device Setting"**) to open the Web- based configuration tool.

If you are not in a private IP address range (192.168. xxx.xxx), you must use the NAS Utility to change the network configurations of your TS-S402 Network Storage Enclosure.

The login screen appears as shown. Enter the username and password. (The default is *admin* as the username and password.)

Web-based Configuration Tool Overview

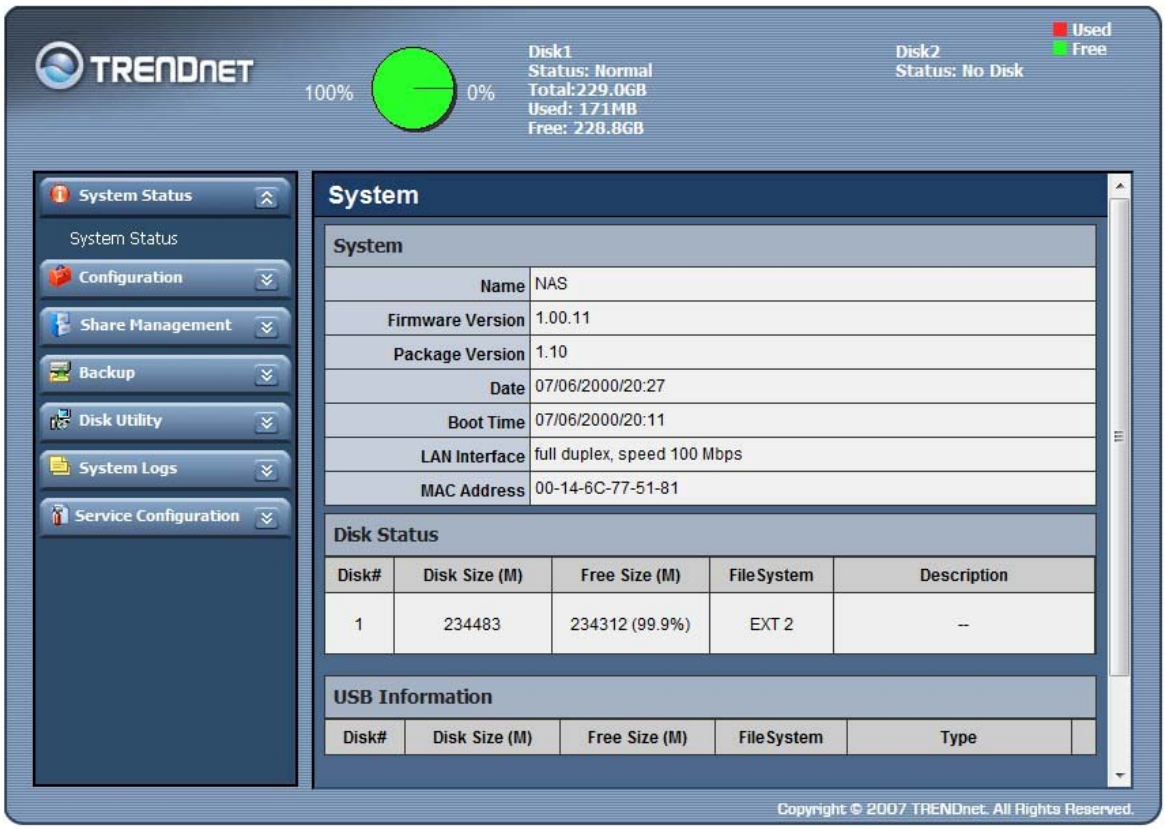
The following illustrates the layout of the Web-based Configuration Tool main screen.



From the left panel of the Web-based Configuration Tool, click each heading to open its respective settings page. The following sections give more detailed information on each settings page.

System Status

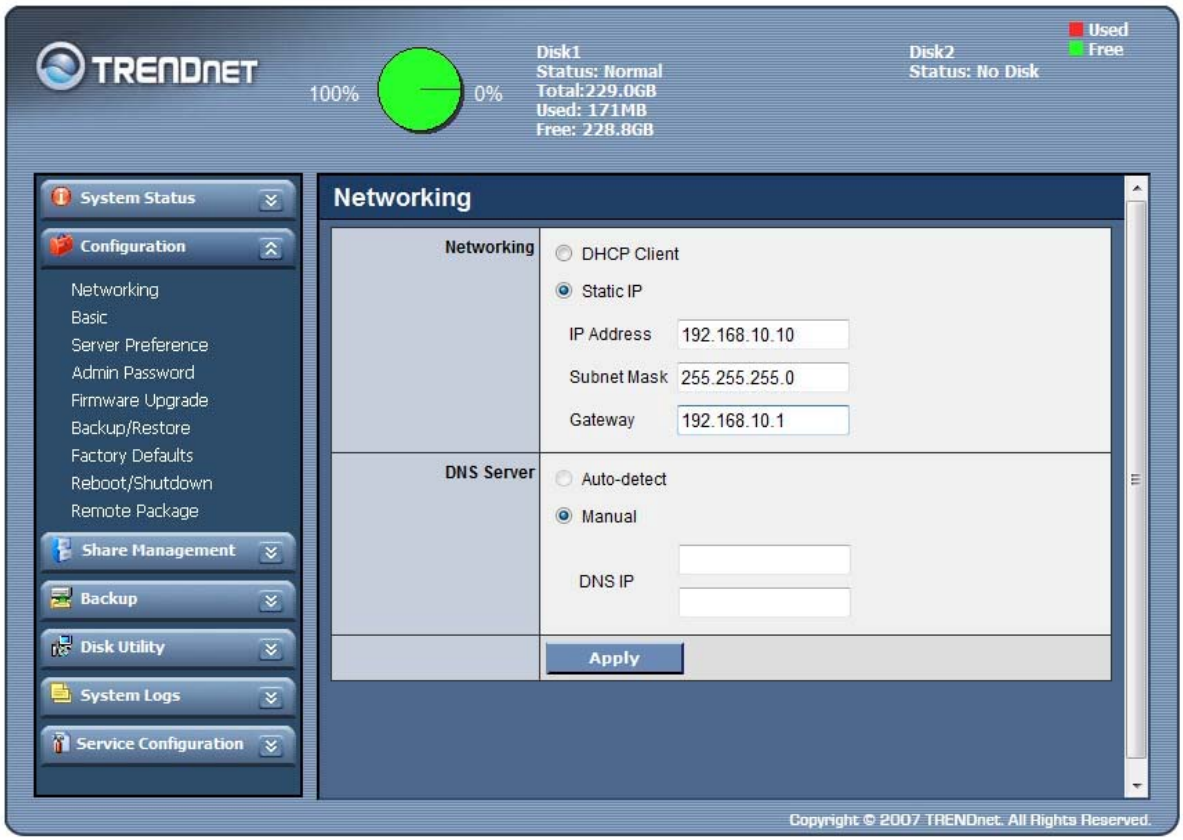
This page allows you to view the system information, disk status, and connected USB device information.



Configuration

Networking

This page allows you to configure the network connection settings of your Multimedia NAS.



Networking

DHCP Client Select to acquire an IP address from the DNS server automatically.

Static IP Enter the IP address, subnet mask, and gateway for the TS-S402 Network Storage Enclosure to use on the network.

DNS Server

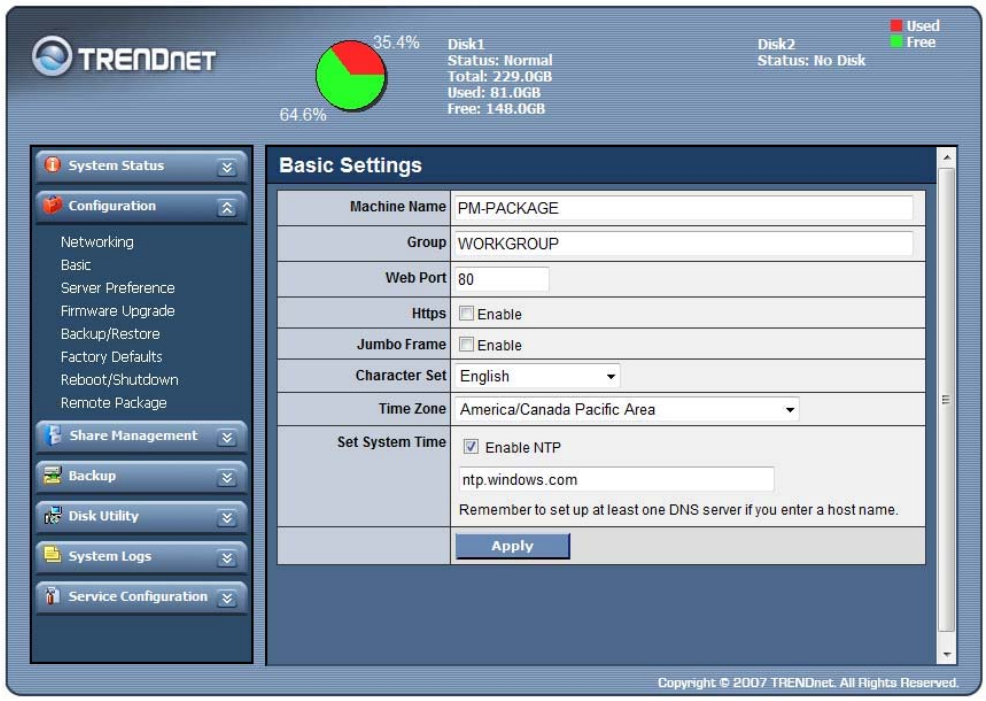
Auto-detect Select to use the Dynamic DNS. When this option is selected, the DNS server automatically assigns an IP address to the TS-S402 Network Storage Enclosure.

Manual Enter the name and IP address of the DNS server you want to use.

Apply Click to save the changes.

Basic

This page allows you to configure the basic settings of your TS-S402 Network Storage Enclosure.



Machine name Enter the name of the TS-S402 Network Storage Enclosure.

Group Enter the name of the group to which the current TS-S402 Network Storage Enclosure belongs.

Web Port Enter the port number used to communicate with the current TS-S402 Network Storage Enclosure. The default is 80.

Https Select this check box to enable web login https and user level

Jumbo Frame Select this check box to enable Jumbo Frame.

Character Set Select the character encoding to display the Web UI pages.

Time Zone Select an appropriate time zone for the current Multimedia NAS.

Set System time Type the date and time in this field with the given format (Month/Date/Year Hour: Min). Or click the ... button to select the date from a pop-up calendar.

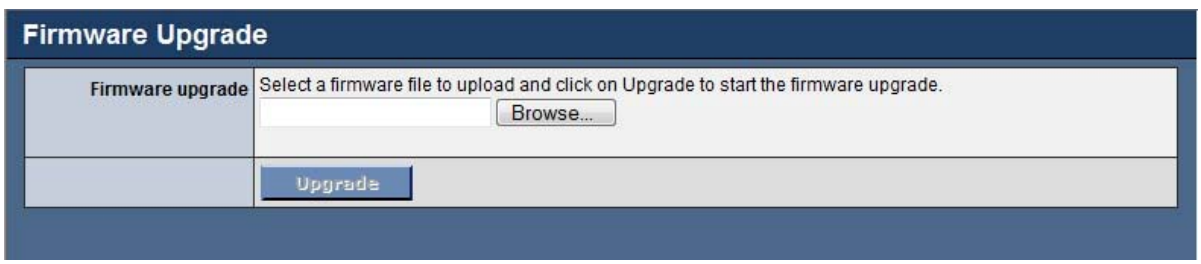
Apply Click to save the changes.

Server Preference

This page allows you to enable or disable the file sharing protocols, including Samba, FTP, NTF, UPnP A/V, and iTunes. Click **Apply** to save the changes.

Firmware Upgrade

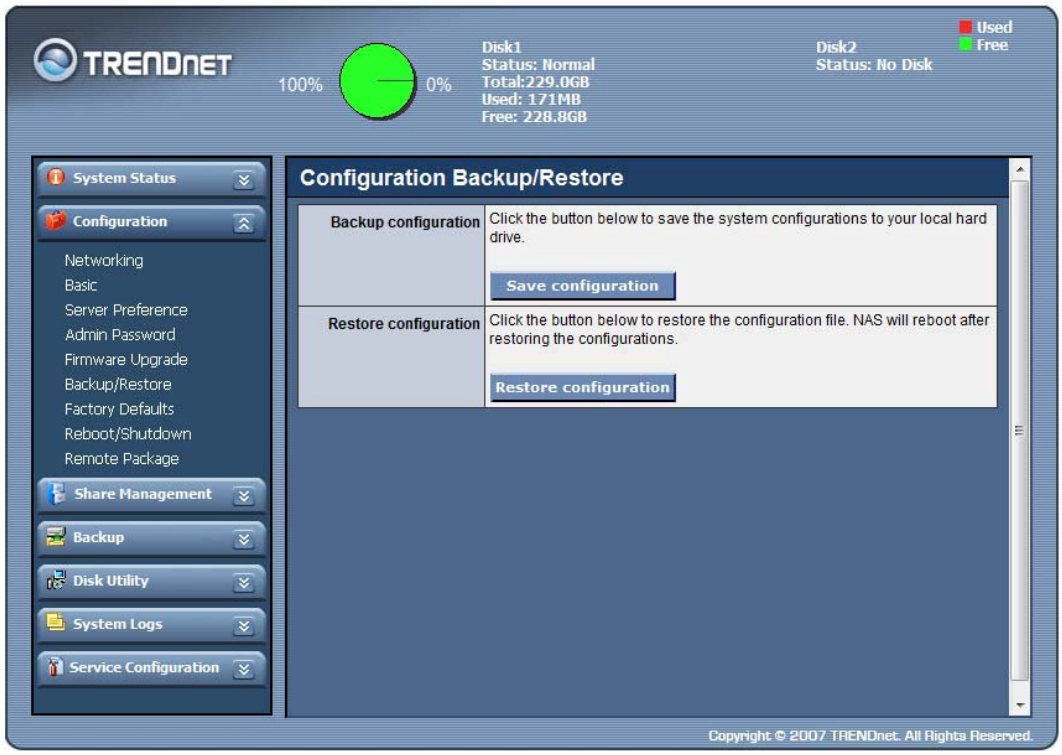
This page allows you to update the firmware of your TS-S402 Network Storage Enclosure.



Click the **Browse** button to locate the firmware file you want to update. Then click the **Upgrade** button to begin the upgrade process.

Backup/Restore

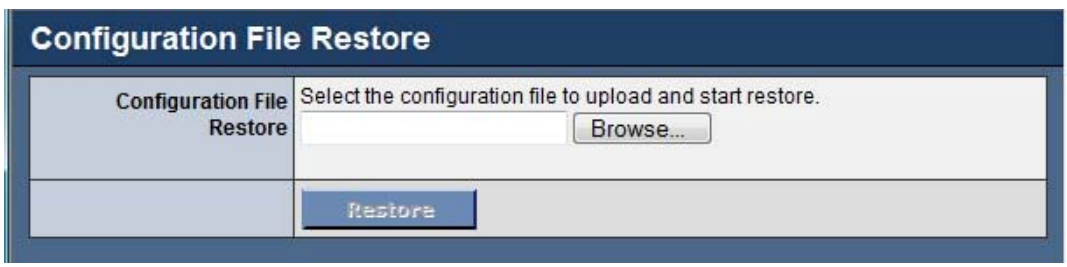
This page allows you to backup and restore the system configuration file for your TS-S402 Network Storage Enclosure.



Backup configuration Click the **Download configuration** button to save the current system configuration of your TS-S402 Network Storage Enclosure to a file.

Restore configuration Click the **Restore configuration** button and the **Configuration File Restore** page opens.

Configuration File Restore



Click the **Browse** button to locate the configuration file you want to restore. Click the **Restore** button to restore the file.

Factory Defaults

This page allows you to restore the factory default settings of your TS-S402 Network Storage Enclosure.

Click the **Yes** button and a confirmation pop-up message is displayed. Click **OK** to proceed, or **Cancel** to abort. The TS-S402 Network Storage Enclosure will reboot automatically.

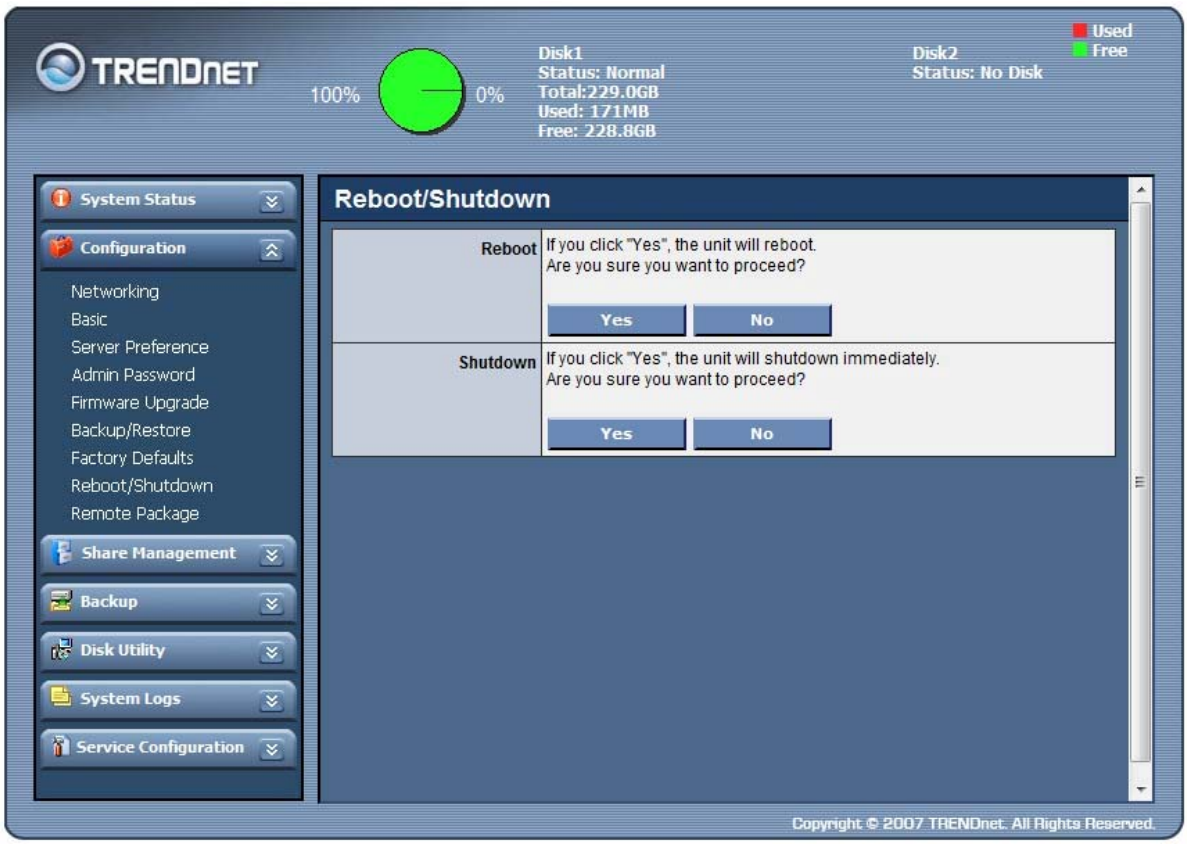
The LAN IP address and the password will be reset to their defaults. You may be required to log in to the system again.

If the Web UI is not displayed after system reboot,
check if the IP address of the TS-S402 Network Storage Enclosure belongs to the network domain you are using.

Reboot/Shutdown

This page allows you to reboot and power off your TS-S402 Network Storage Enclosure without pressing the

Power button.



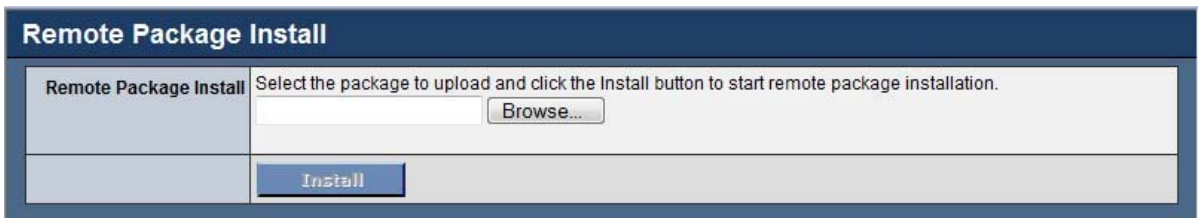
Click the **Yes** button to reboot or power off the TS-S402 Network Storage Enclosure immediately.

A confirmation pop-up message is displayed. Click **Yes** to proceed, or **No** to abort.

The TS-S402 Network Storage Enclosure will reboot in 70 seconds. Do not
close the browser during the reboot process.

Remote Package

This page allows you to install software packages from a remote TS-S402 Network Storage Enclosure.

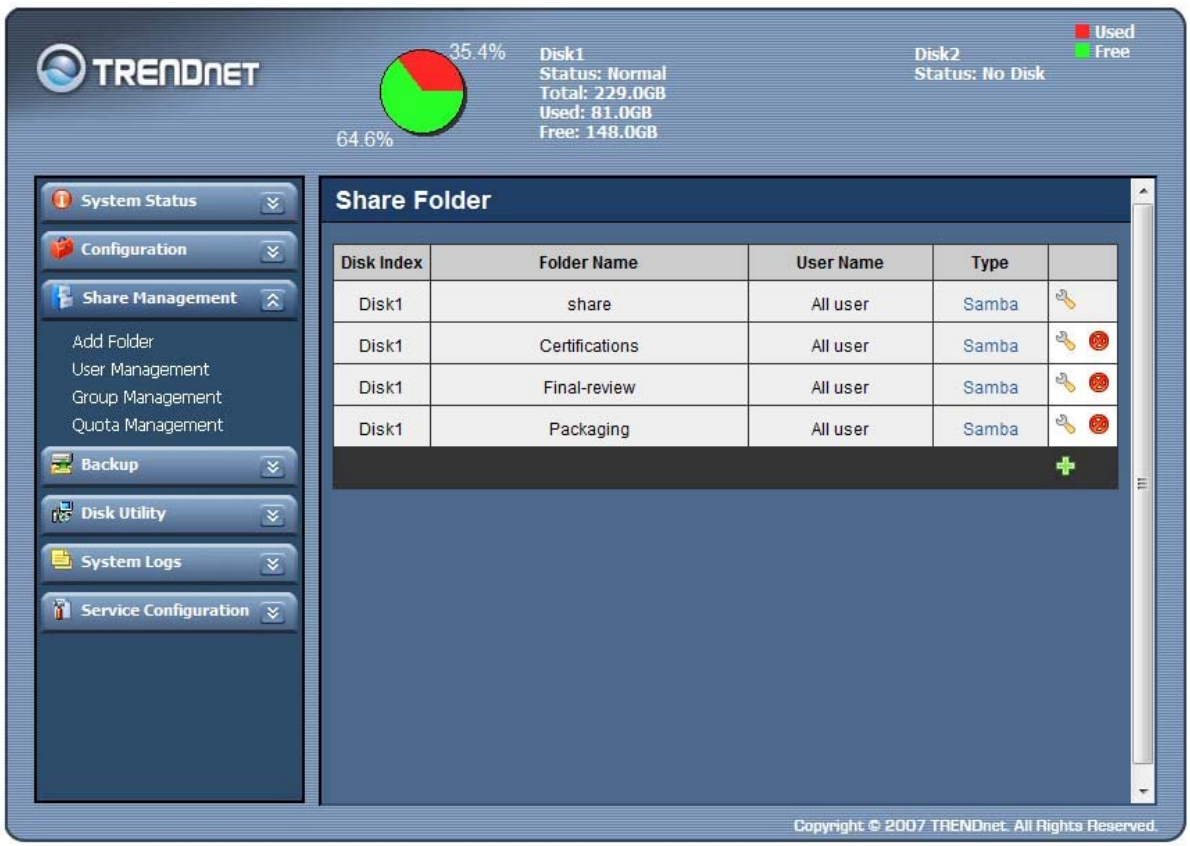


Click the **Browse** button to locate the package you want to upload. Then click the **Install** button to begin the installation.

Share Management

Share Folder

This page lists the information of all sharing folders contained in your TS-S402 Network Storage Enclosure.



Disk Displays the disk the folder belongs to.

Folder Name Displays the name of folder.

User Name Displays the users having the right to access the folder.

Type Displays the protocol type can be used to open the folder.

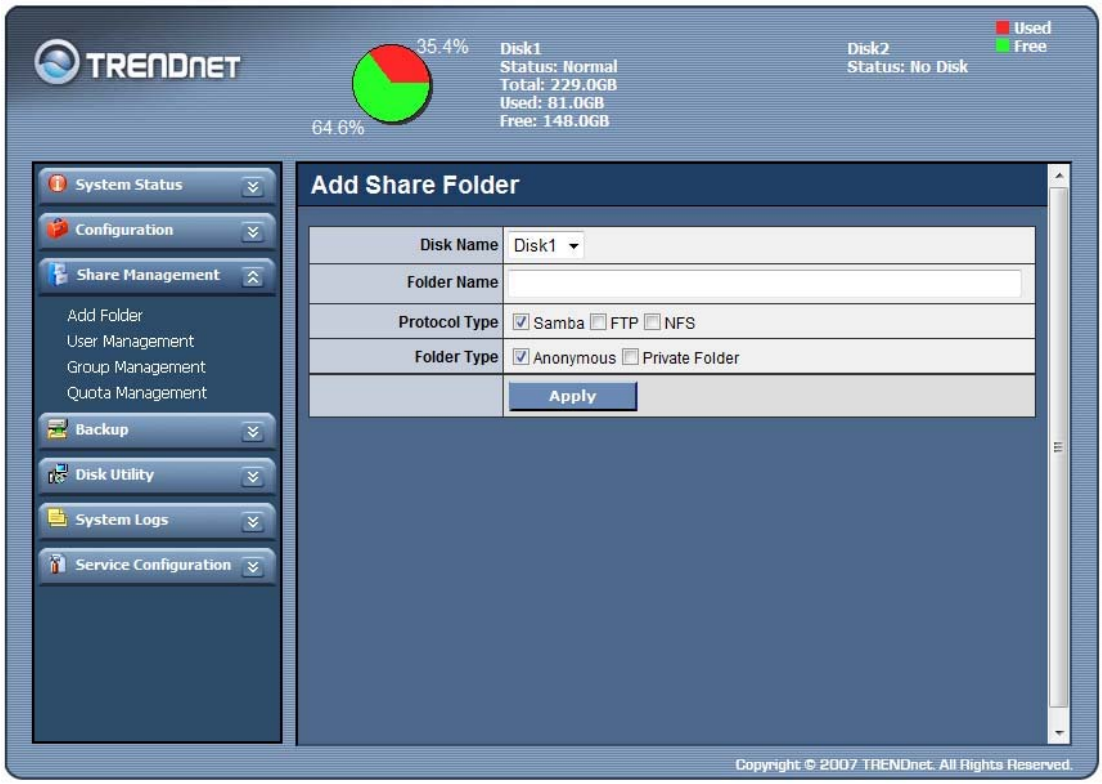
Add Click to add a folder. The **Add Share Folder** page displays.

Edit Click to edit a folder. The **Edit Share Folder** page displays.

Delete Click to delete a folder.

Add/ Edit Share Folder

To add or edit a folder, click the **Add** or **Edit** button from the **Share Folder** page. The **Add/Edit Share Folder** page displays.



Disk Name — *When adding a folder*: Select a disk for the new folder to be created.

When editing a folder: Displays the disk the folder belongs to.

Folder Name — Enter the name to display for the folder.

Protocol Type — Select the protocol type to be used to open the folder.

Folder Type — Select **Anonymous** to make the folder public, or **Private Folder** for specific user access. When **Private Folder** is selected, you need to add at least a user to the **User List**.

User List — Select a user from the drop-down list, and click the **Add New User** button to add the user to the **Allow List**.

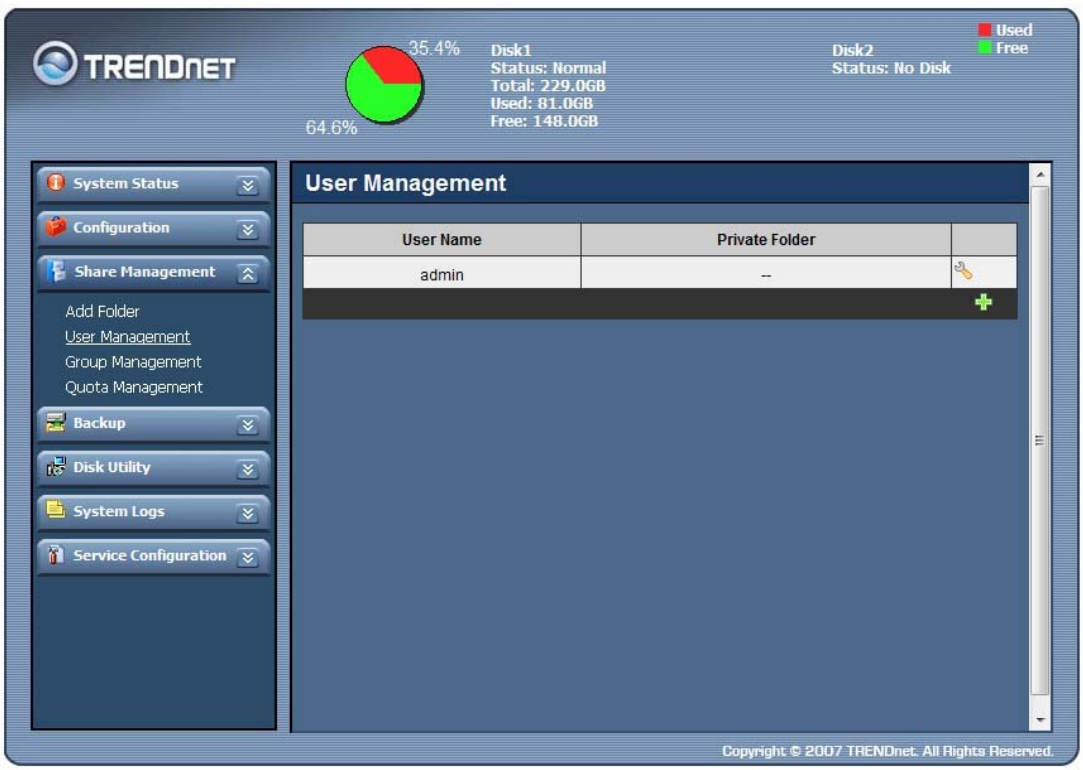
Allow List — Displays the users having the access right for the TS-S402 Network Storage Enclosure. When the **Read only** checkbox is checked, the user cannot configure any setting in the Web UI.

Delete Click to remove a user from the **Allow List**.

Apply Click to save the changes.

User Management

This page lists all users allowed to access your TS-S402 Network Storage Enclosure, and the private folders each user owns.



User Name Displays the users that can log in to the TS-S402 Network Storage Enclosure.

Private Folder Displays the private folders can be accessed by the user.

Add Click to add a user. The **Add User** page displays.

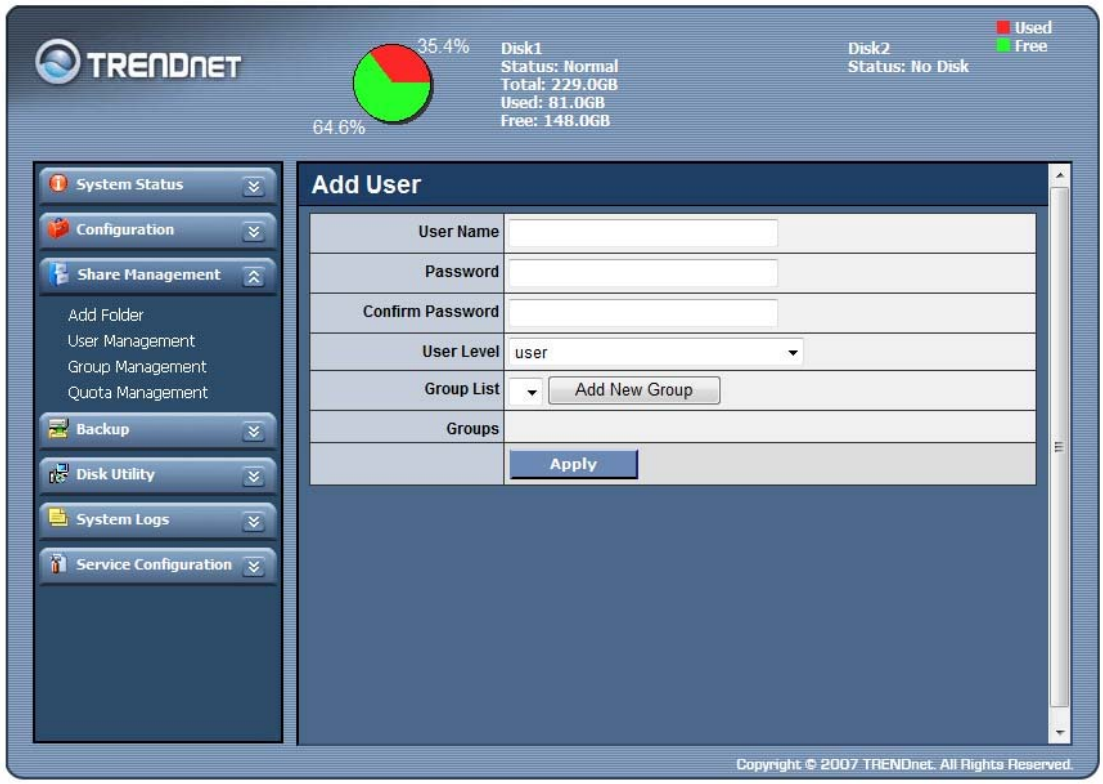
Edit Click to edit a user. The **Edit User** page displays.

Delete Click to delete a user.

If the user you want to delete owns one or more private folders, a pop-up message prompts you to delete the private folder first.

Add/ Edit User

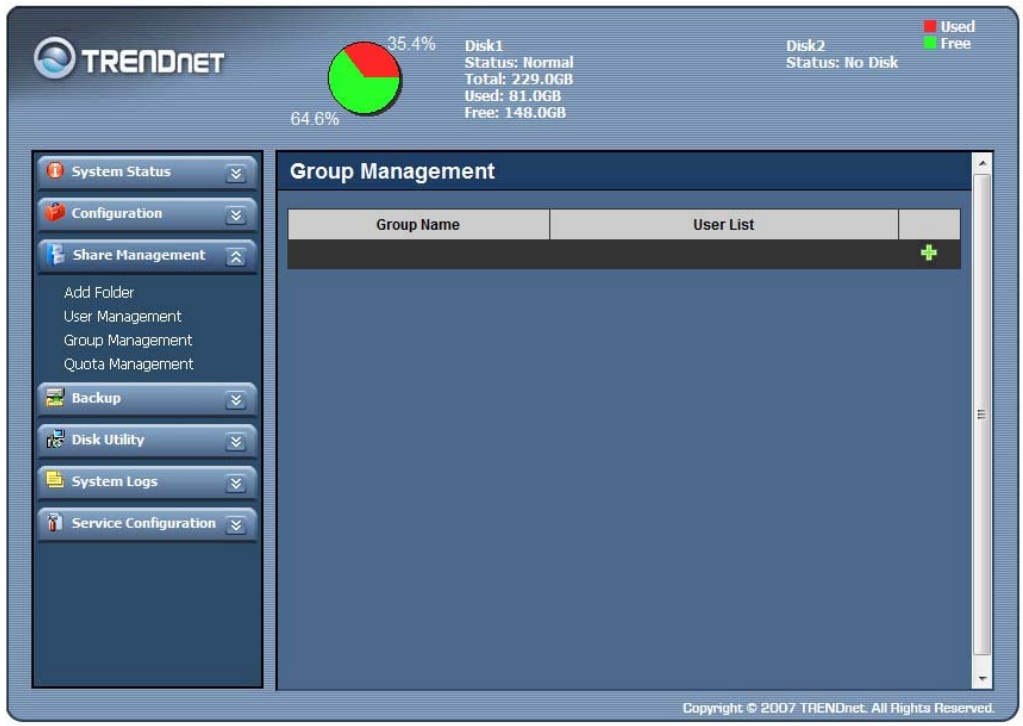
To add or edit a user, click the **Add** or **Edit** button from the **User Management** page. The **Add/Edit User** page displays.



User Name	*When adding a user*: Enter the name of a new user. *When editing a user*: Displays the name of the user.
Password	Enter the new password in this field.
Confirm Password	Enter the new password again in this field.
User Level	Select the User Level to **Admin** or **User.**
Group List	Select the Group for the user.
Groups	Edit the Groups the user is in.
Apply	Click to save the changes.

Group Management

This page lists all groups allowed to access your TS-S402 and the users in the groups.



Group Name Displays the groups that can log in to the Multimedia NAS.

User List Displays the users in the groups.

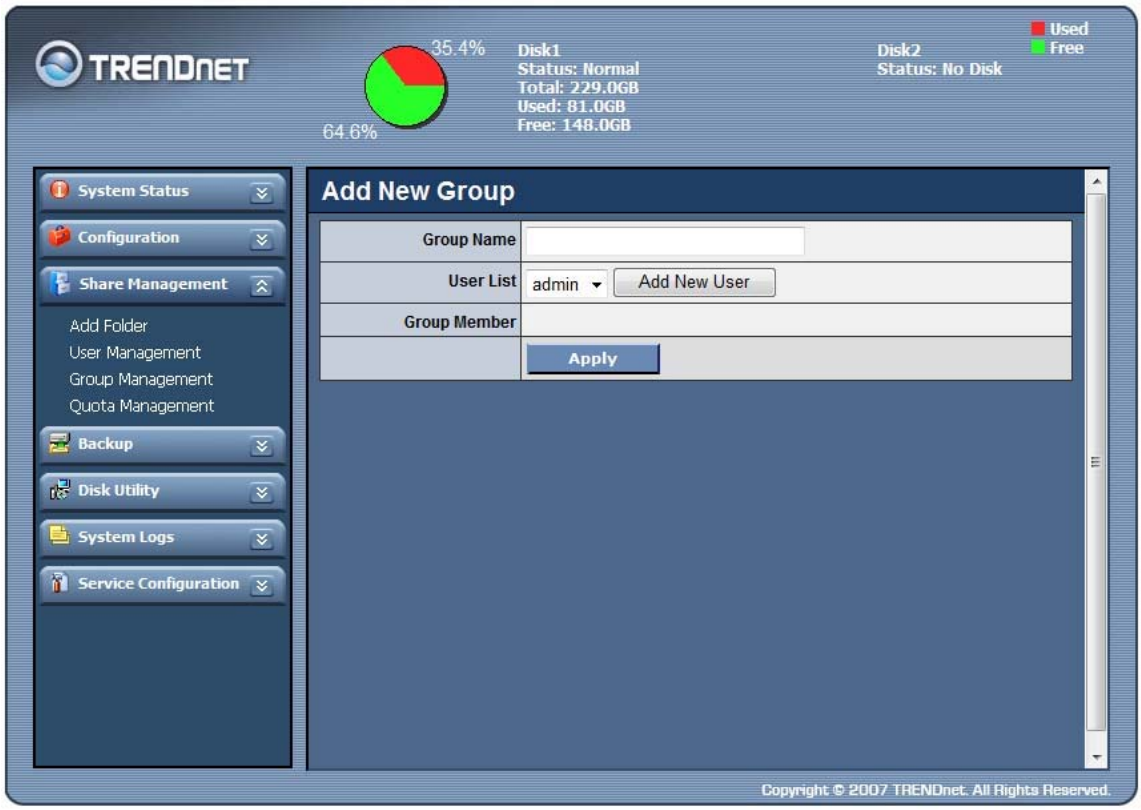
Add Click to add a user. The **Add New Group** page displays.

Edit Click to edit a user. The **Config Group** page displays.

Delete Click to delete a group.

Add/ Edit Group

To add or edit a group, click the **Add** or **Edit** button from the **User Management** page. The **Add/Edit Group** page displays.



Group Name — *When adding a group*: Enter the name of a new group.

When editing a group: Displays the name of the group.

User List — Displays all the user names.

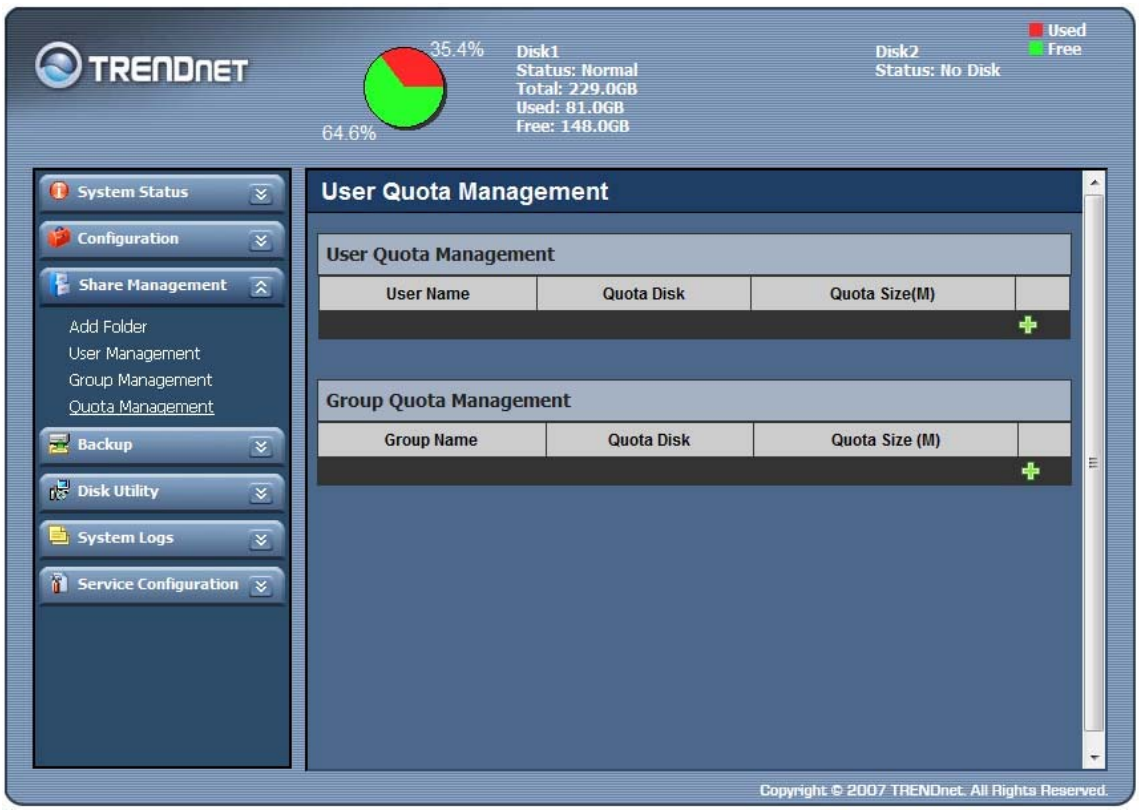
Group Member — Displays the users in this group.

Delete — Click to delete a user in this group.

Apply — Click to save the changes.

Quota Management

This page lists the quota of the groups and users allowed to access your TS-S402.



User Name Displays the user names for the quota.

Group Name Displays the group names for the quota.

Quota Disk Displays the disks selected for the quota.

Quota Size Displays the quota assigned to the groups or the users.

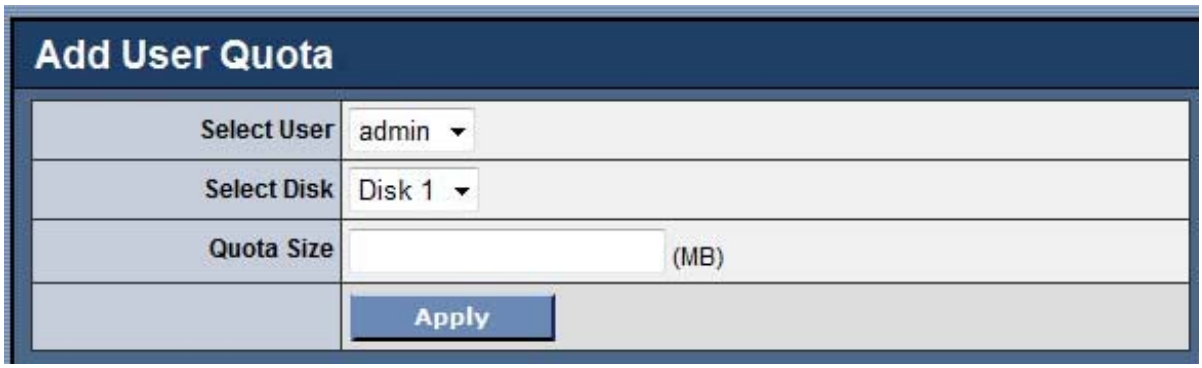
Add Click to add an user quota or a group quota.

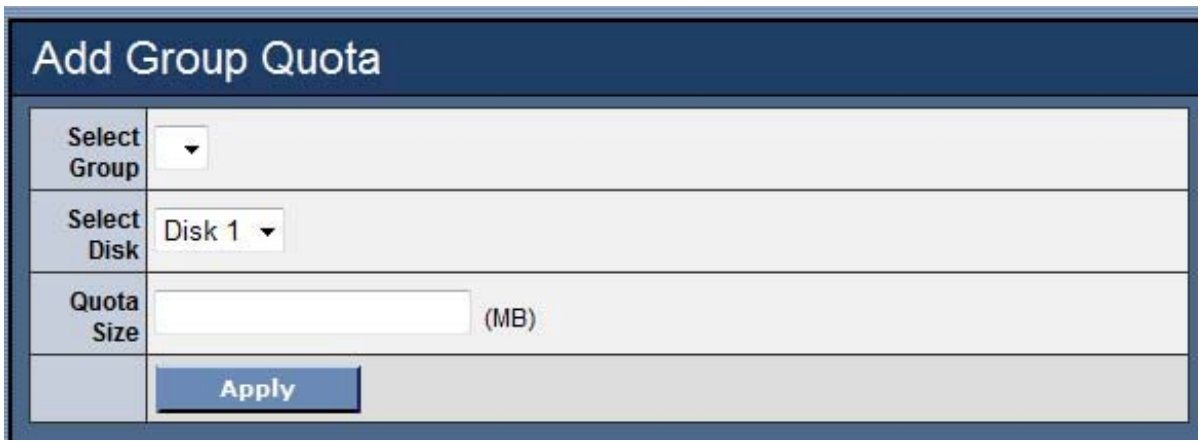
Edit Click to edit an user quota or a group quota.

Delete Click to delete an user quota or a group quota.

Add/ Edit Quota

To add or edit a quota, click the **Add** ⊕ or **Edit** ⓔ button from the **User Management** page. The **Add/Edit Quota** page displays.





Select Group — *When adding an user or group*: Select the name of an user or a group.

When editing a group: Displays the name of the user or group.

Select Disk — Select the disk for the quota.

Quota Size — Enter the quota size in this field.

Apply — Click to save the changes.

Backup

Scheduling Backup

This page allows you to set up a schedule to backup the specified local folders of the TS-S402 Network Storage Enclosure.

Schedule Check the **Enable** checkbox to configure the settings in this page.

Description Displays a short description associated with the Scheduling Backup feature.

Auto Delete Check this checkbox to perform file synchronization between the target and source folders during backup process.

Setting Frequency Select to backup the folder hourly, daily, weekly or monthly.

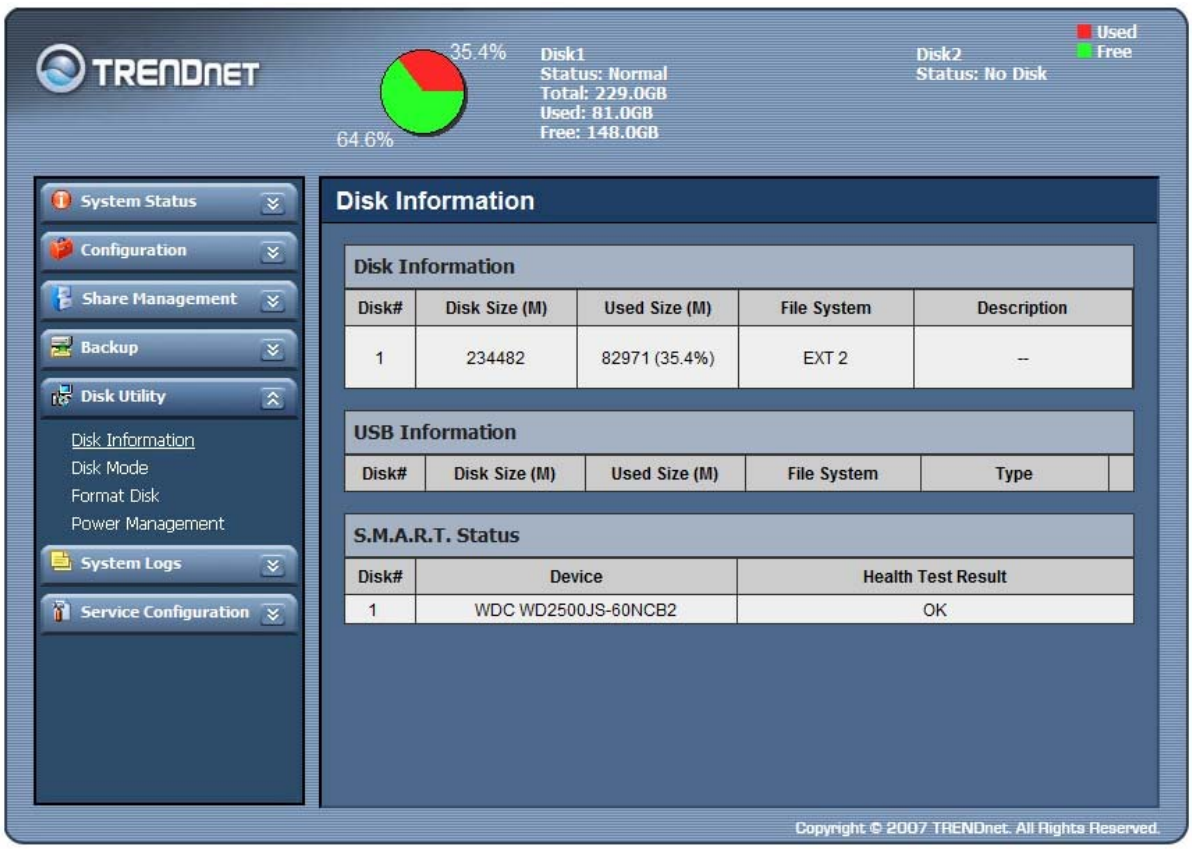
Setting Hours: Mins Select the time to start the backup task every hour or every day.

Setting Day of Month	Select on which date of every month to start the backup task. This option is only available when **Every Month** is specified in the **Setting Frequency** field.
Setting Day of Week	Select on which day of every week to start the backup task. This option is only available when **Every Week** is specified in the **Setting Frequency** field.
Source Directory	Select the source folder you want to make a backup from the drop-down list.
Destination Directory	Select the target folder where the backup copy of your folder will be stored.
Apply	Click to save the changes.

Disk Utility

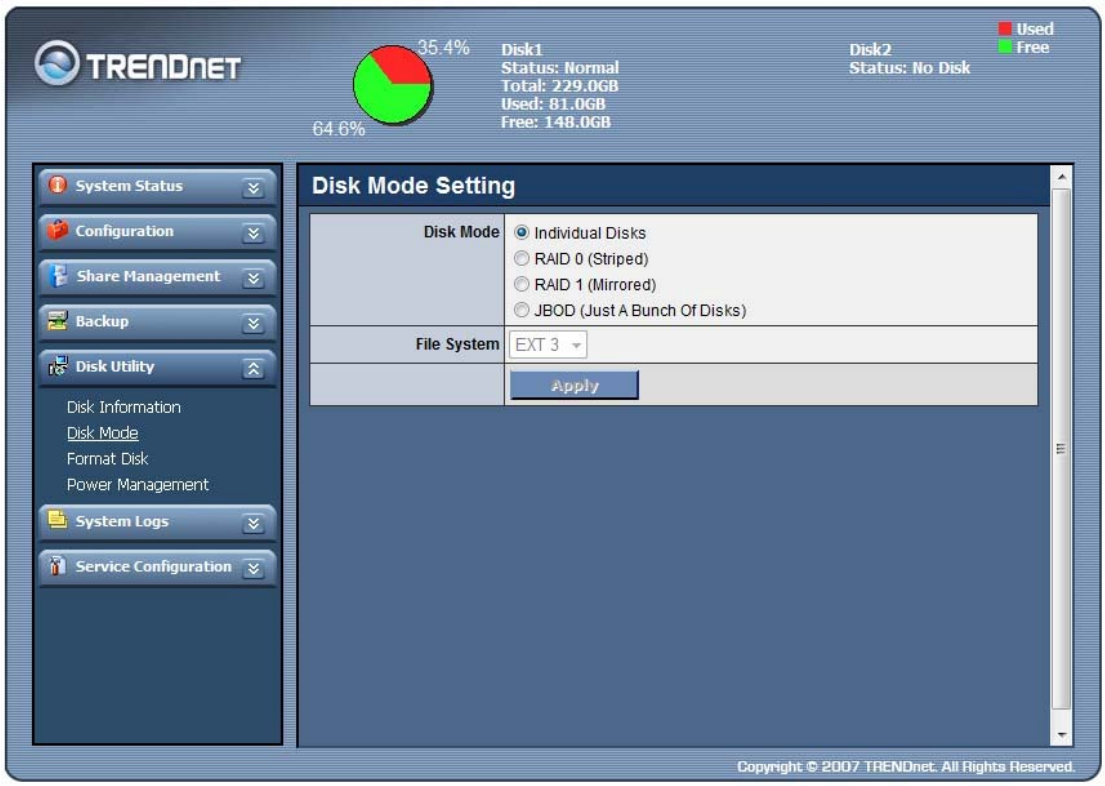
Disk Information

This page lists the information of the system storage disks and connected USB devices.



Disk Mode

This page allows you to change the disk mode and file format for the storage disks on your TS-S402 Network Storage Enclosure.



Mode Setting Select the mode for the TS-S402 Network Storage Enclosure system to partition and format disks.

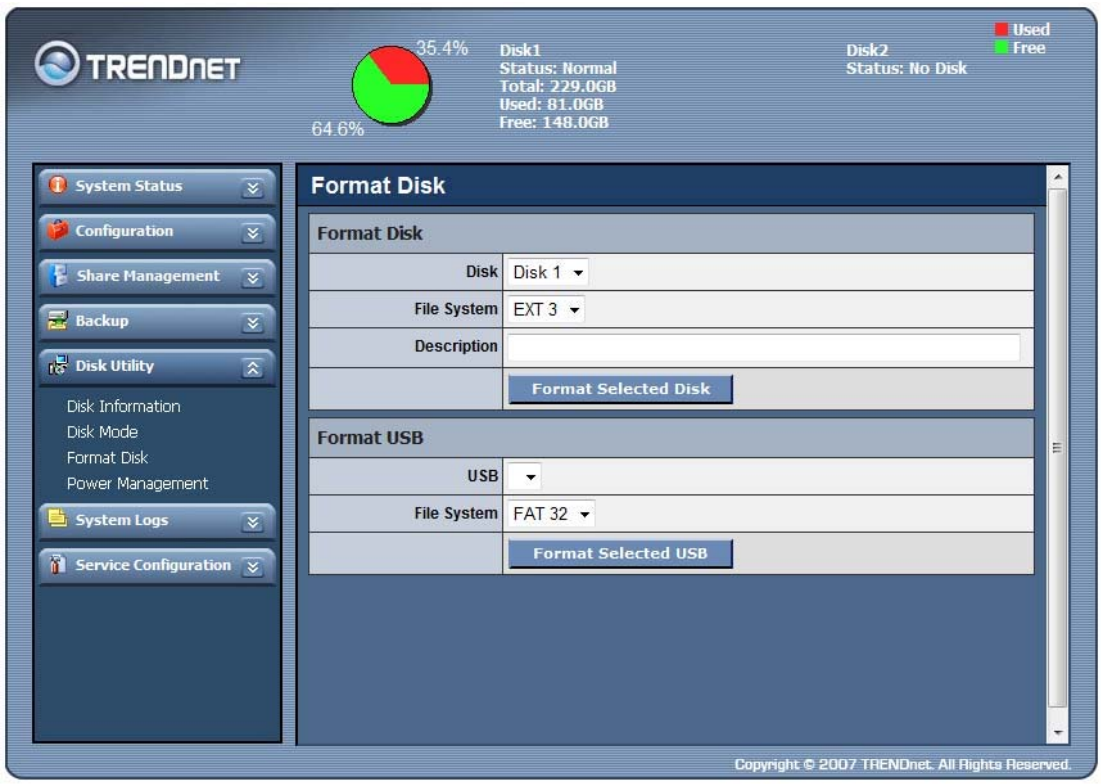
File System Select the file system type you want to use for the disks.

Apply Click to save the changes.

When the settings are made, the TS-S402 Network Storage Enclosure system starts formatting the disks. This procedure will destroy all the data on the disks. Make sure you have backed up any important data on the disks before the format process.

Format Disk

This page allows you to format the physical hard disks and USB storage devices from your TS-S402 Network Storage Enclosure.



Format Disk

Disk Select the hard disk you want to format.

File System Select the file system type you want to use for the new storage.

Description Enter a brief description of the disk.

Format selected disk Click to start formatting the disk.

Format USB

USB Select the USB drive you want to format.

File System Select the file system type you want to use for the new storage.

Format selected disk Click to start formatting the disk.

Power Management

This page allows you to change the power settings on your TS-S402

Power Management	Check the **Enable** checkbox to configure the settings in this page.
Turn Off Hard Drives	Select the time to turn the hard drives off.
Apply	Click to save the changes.

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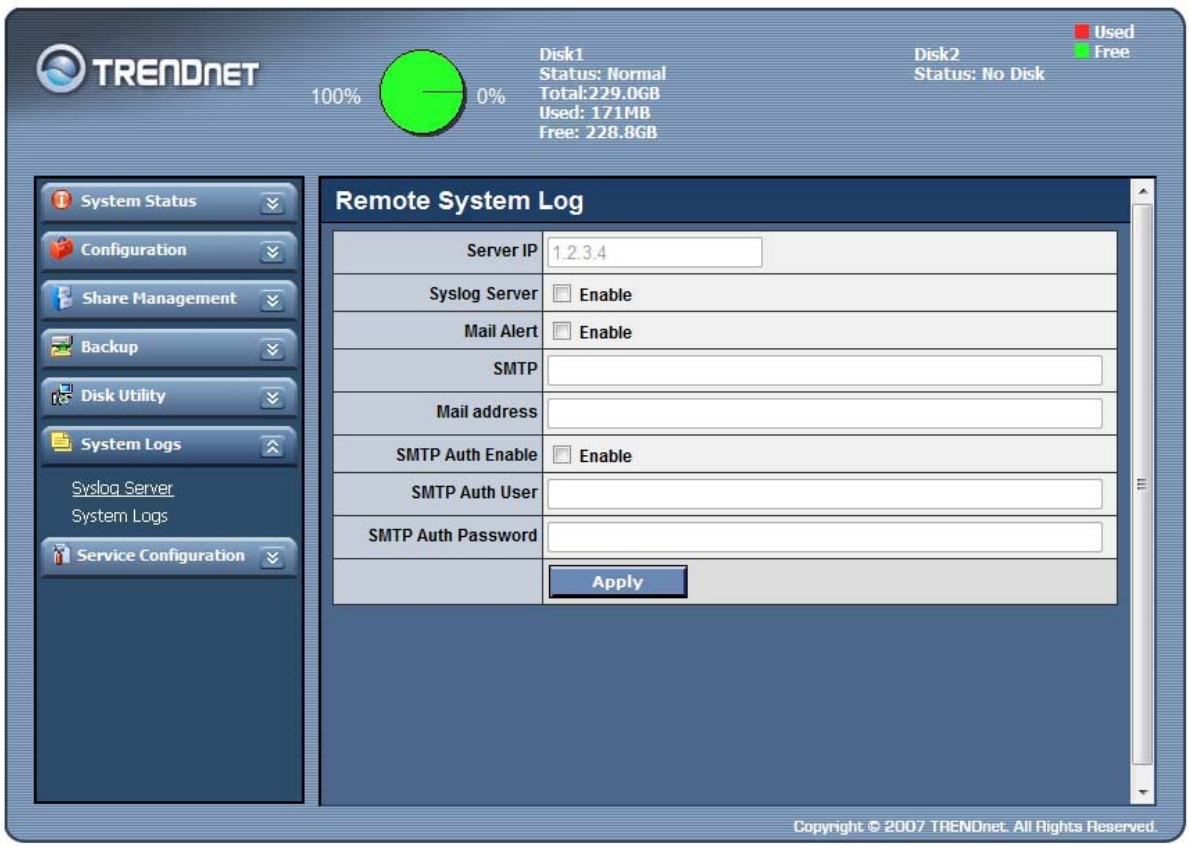
System Logs

Syslog Server

This page allows you to configure the remote server for sending out the system logs generated from your TS-S402 Network Storage Enclosure.



Server IP Enter the IP address of the remote server. This option is only available when **Syslog server** is enabled.

Syslog server **Enable** this option to configure the server IP.

Mail Alert **Enable** this option to send out the system log messages via SMTP server.

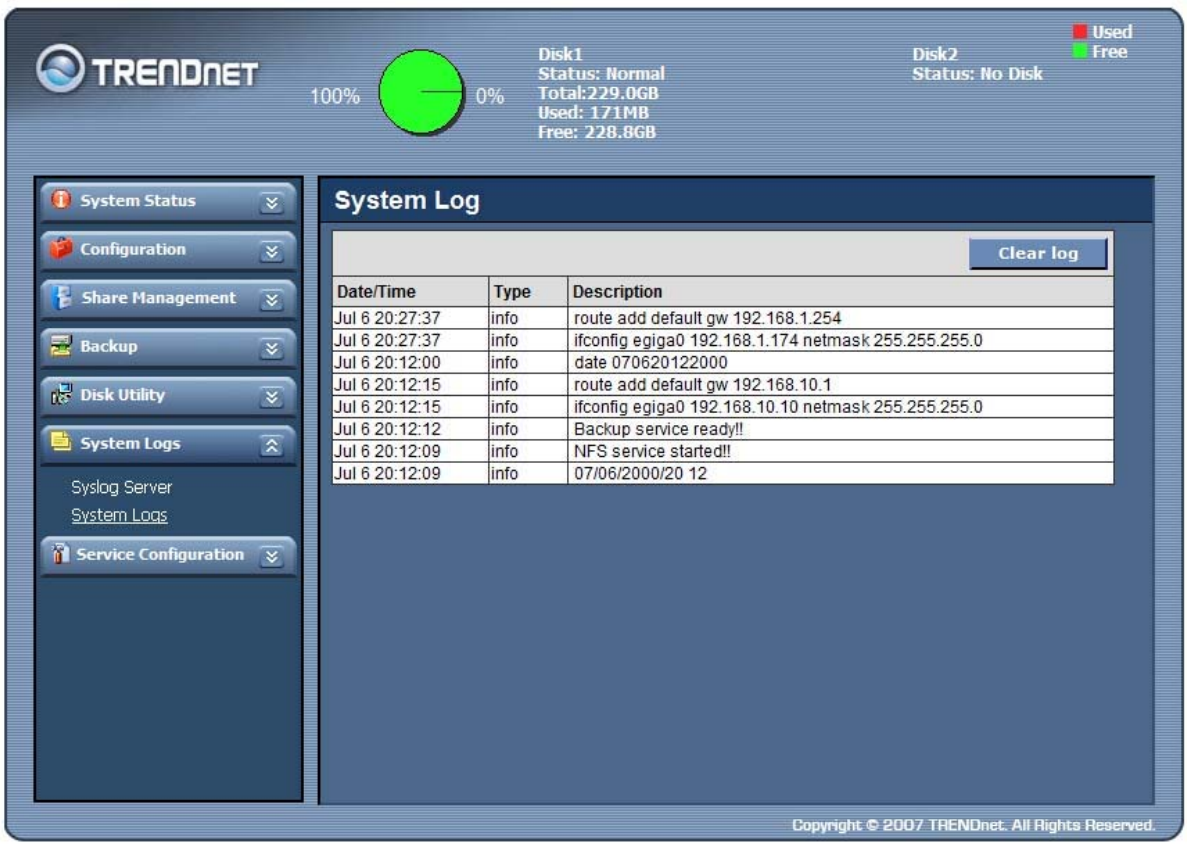
SMTP Enter the SMTP server address. This option is only available when **Mail Alert** is enabled.

Mail address Enter the mail address for the TS-S402 Network Storage Enclosure to send out the emails. This option is only available when **Mail Alert** is enabled.

SMTP Auth Enable	**Enable** this option to use SMTP Authentication when sending out emails.
SMTP Auth User	Enter the username for SMTP authentication. This option is only available when **SMTP Auth Enable** is enabled.
SMTP Auth Password	Enter the password for SMTP authentication. This option is only available when **SMTP Auth Enable** is enabled.

System Logs

This page allows you view and clear a list of system log messages from the Multimedia NAS.

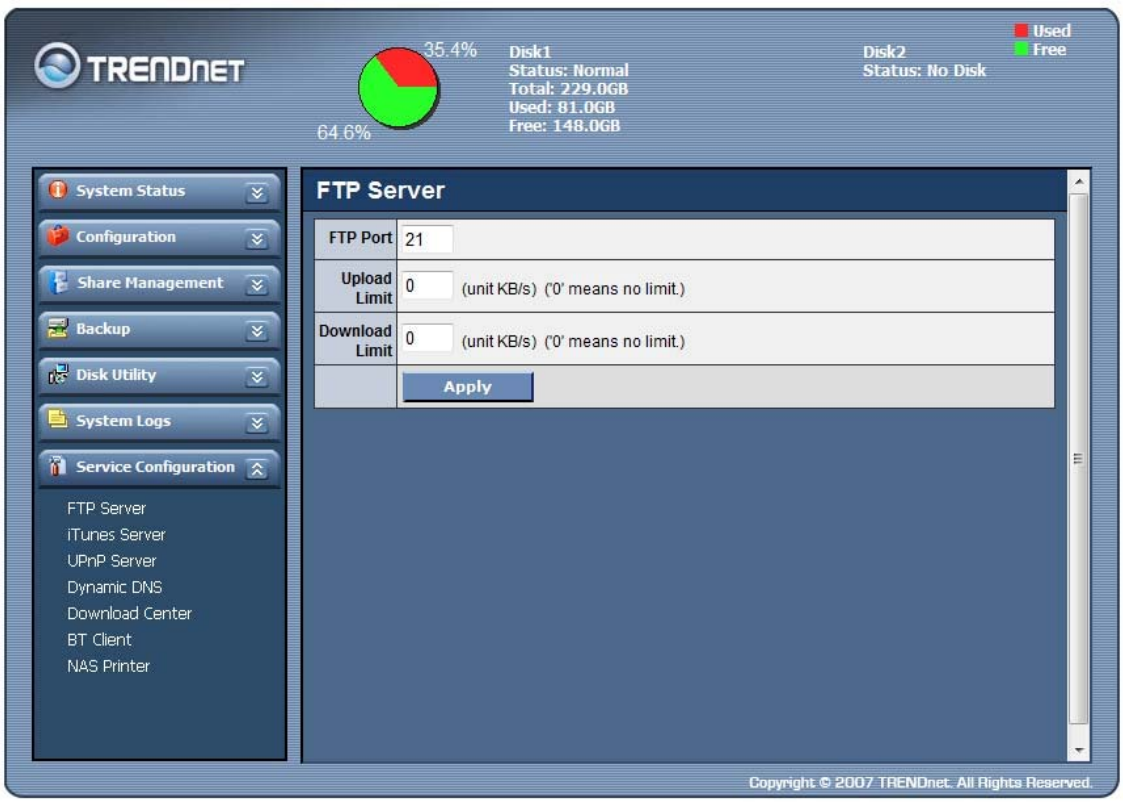


Click the **Clean log** button to clear the system log screen.

Service Configuration

FTP Server

This page allows you to change the FTP server settings on your TS-S402.



FTP Port Enter the port to be used by FTP.

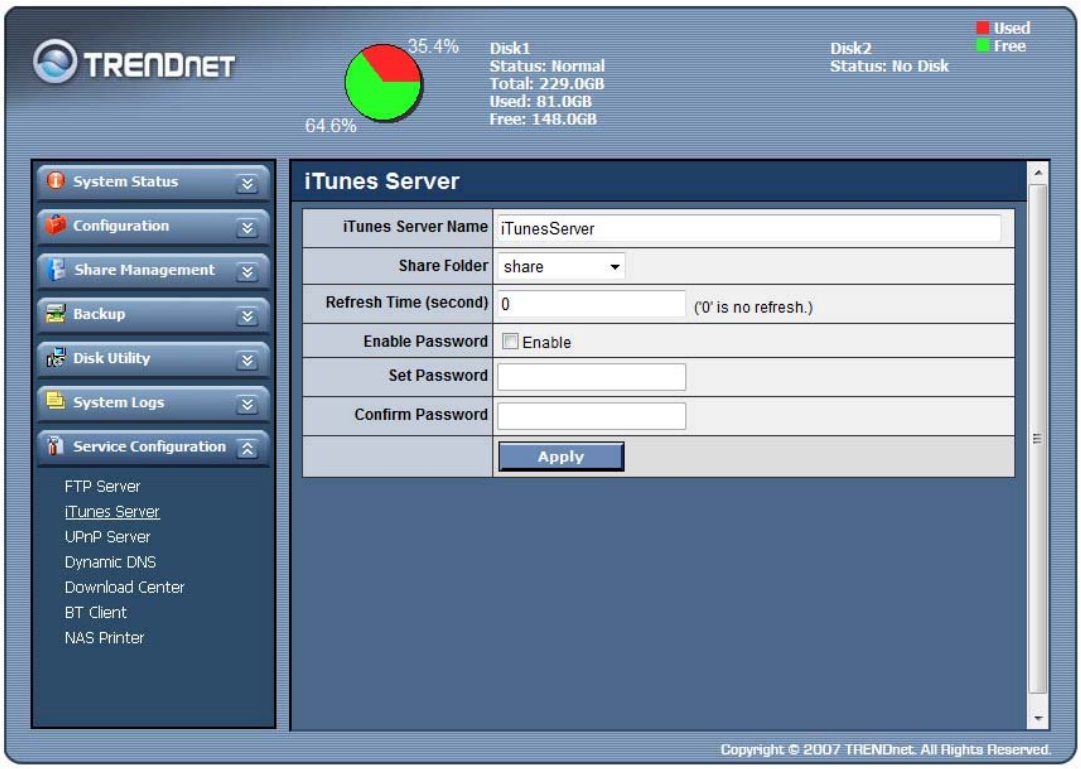
Upload Limit Enter the upload size limit. Enter 0 for no limit.

Download Limit Enter the download size limit. Enter 0 for no limit.

Apply Click to save the changes.

iTunes Server

This page allows you to configure an iTunes server in your TS-S402 Network Storage Enclosure. You can use this server to share your iTunes music files with other users on your local network.



iTunes Server Name Enter the name for the iTunes server.

Share folder Select the folder stored with your iTunes music files as the shared folder.

Only one folder can be set for iTunes music sharing.

Refresh time (second) Enter the desired time interval (in seconds) to refresh the iTunes server automatically.

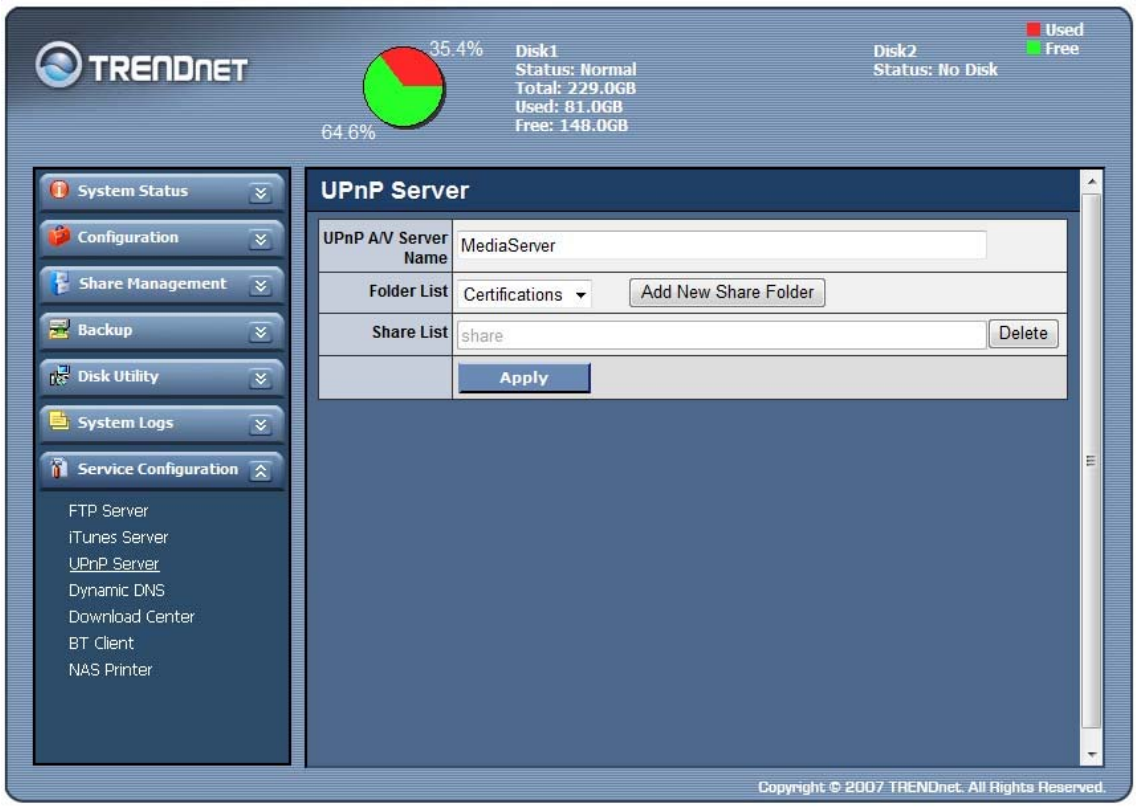
Enable Password Check this option to enable password-protected file sharing.

Set Password Enter the password for iTunes server access.

Confirm Password Enter the password again in this field.

UPnP Server

This page allows you to configure a UPnP A/V (Universal Plug and Play) media server in your TS-S402 Network Storage Enclosure. Any user on your local network can browse your media (pictures/videos/audio/music) from this server and playback them on UPnP compatible media players or computers running an appropriate client software, such as WinDVD player.



UPnP A/V Server Name Enter the name for the UPnP A/V server. Then select the folder stored with your media files as the shared folder. Click the **Add New Share Folder** button to add the folder to the **Share List**.

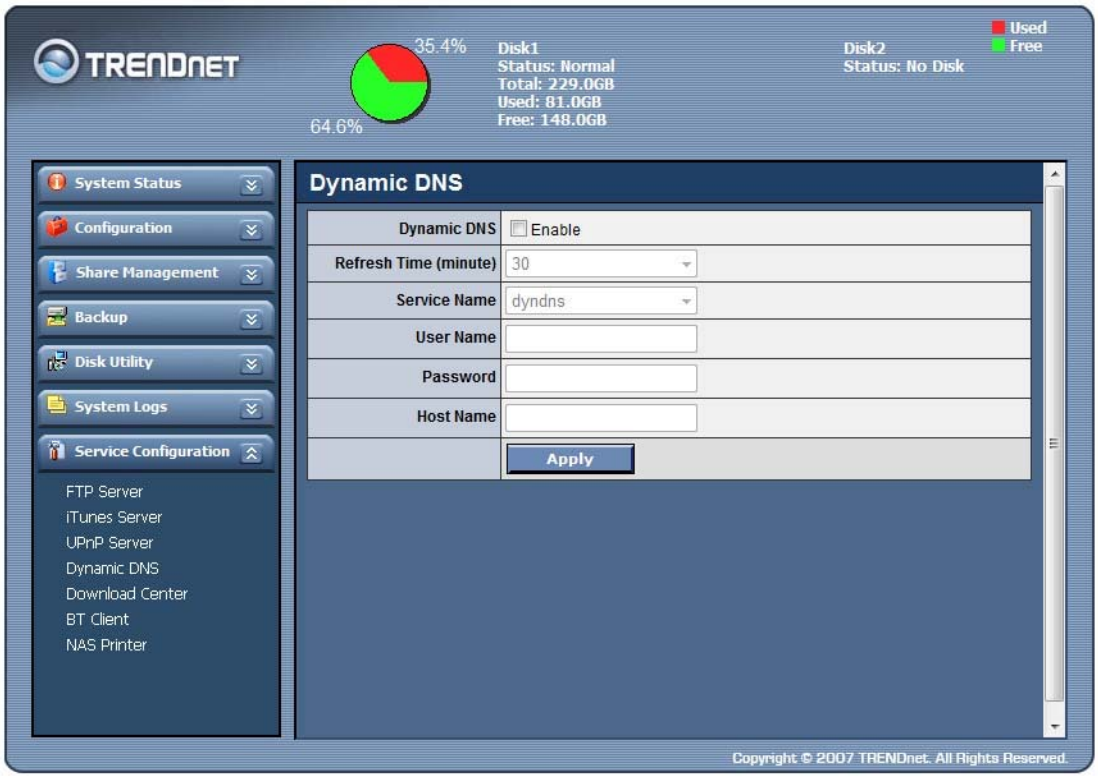
Share List Displays the folders to be shared on the UPnP server.

Delete Click to remove the sharing folder from the **Share List**.

Apply Click to save the changes.

Dynamic DNS

This page allows you to configure Dynamic DNS in your TS-S402.



Dynamic DNS Check the **Enable** box to configure the settings on this page.

Refresh Time (minute) Select the time to refresh the server. This option is only available when **Dynamic DNS** is enabled.

Server Name Select the server name for your **Dynamic DNS** service. This option is only available when **Dynamic DNS** is enabled.

User Name Enter the user name of your Dynamic DNS account.

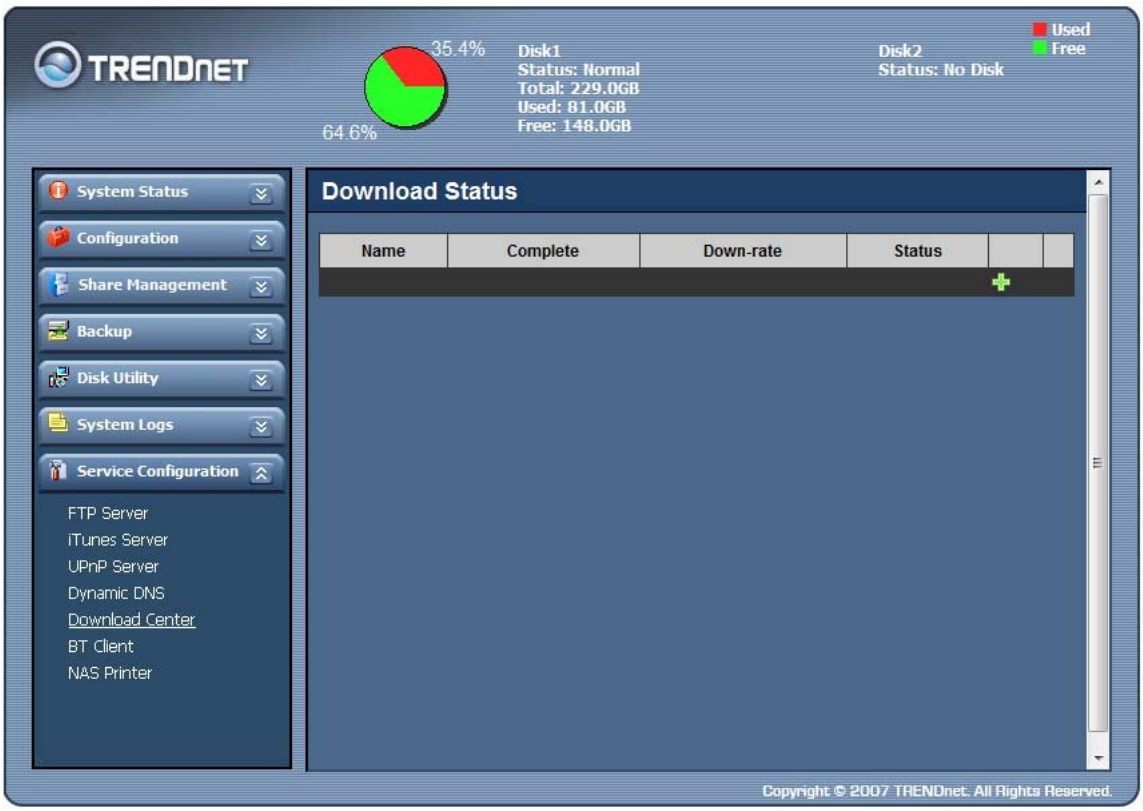
Password Enter the password of your Dynamic DNS account.

Host Name Enter the host name of your Dynamic DNS account.

Apply Click to save the settings.

Download Center

This page lists the download status for your downloads.



Name Displays the names of the downloads.

Complete Displays the percentage completed for the downloads.

Download Rate Displays the speed of the downloads.

Status Displays the status of the downloads.

Add Click to add a download.

Run Click to start downloading.

Stop Click to stop downloading.

Delete Click to delete a download.

Add Download

To add a download, click the **Add** ⊕ from the **Download Center** page. The **Download Setting** page displays.

URL Enter the address of the download server. Like http:// or FTP://

Download Directory Select the download directory in your Multimedia NAS.

Download Limit Enter the limit for the download.

Retry Limit Enter the limit for the retry. Enter 0 for no retry.

Anonymous Check the Anonymous checkbox to enable downloading anonymously.

User Name Enter the user name for the download. This option is only available when **Anonymous** is disabled.

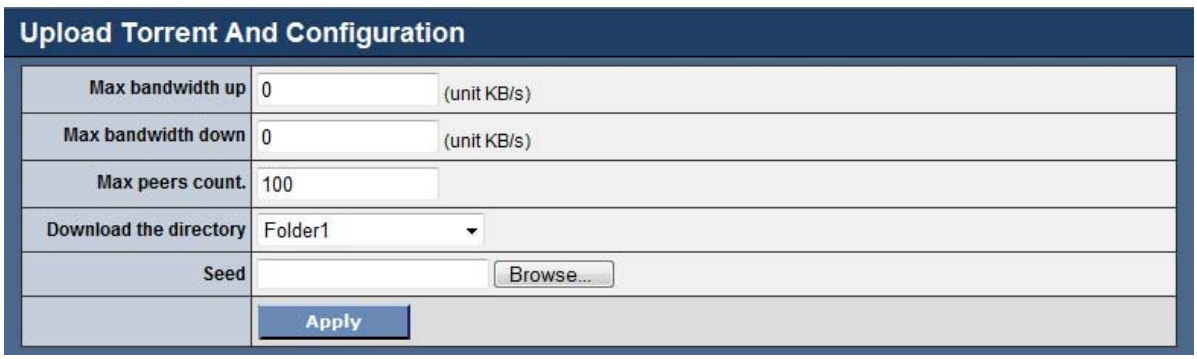
Password Enter the password for the download. This option is only available when **Anonymous** is disabled.

Apply Click to save the changes.

BT Client

This page lists the download status of BT seeds (the data from torrent files). You can click the **Add** ( ), **Remove** ( ), start ( ) and stop ( ) buttons in this page to start and cancel the download. Click the **Add** ( ) button to open the **Upload Torrent And Configuration** page.

Upload Torrent And Configuration



Max bandwidth up (unit KB/s) Enter the maximum upload rate for BT clients to use.

Max bandwidth down Enter the maximum download rate for BT clients to use.

Max peers count Enter the maximum number of connected peers.

Download the directory Select the folder which contains the torrent files you want to save as the download files.

Seed Click the **Browse** button to locate the torrent file saved in the TS-S402 Network Storage Enclosure.

Users can only download two BT seeds at the same time.

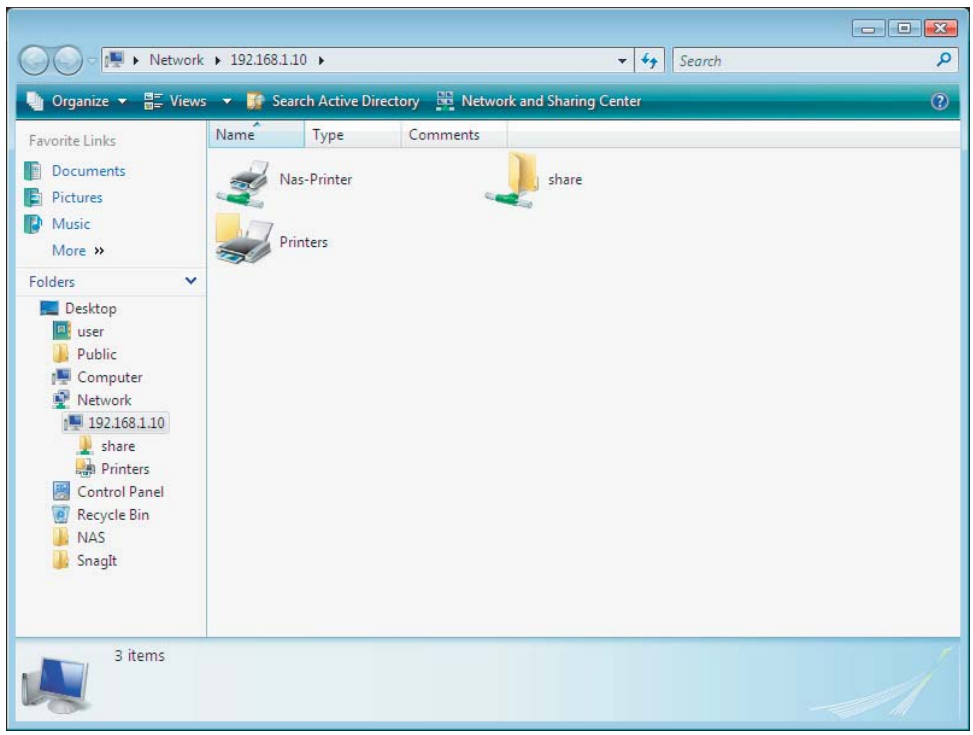
NAS Printer

Your TS-S402 Network Storage Enclosure has a built-in printer server. To enable NAS printer sharing,

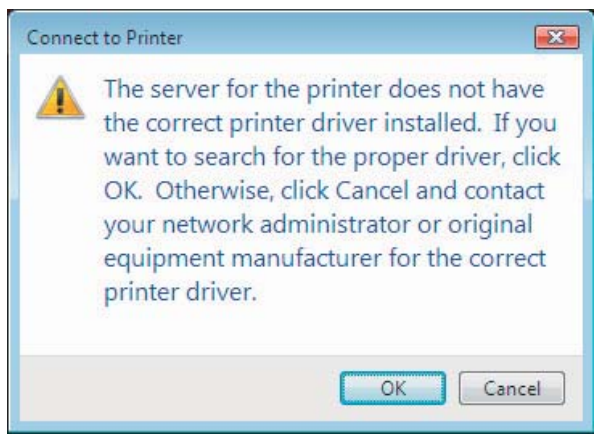
connect a USB printer to an available USB port on your TS-S402 Network Storage Enclosure. (See **"Using External USB Devices"** on page 20 for connections.) Users can print out anything on this printer.

To set up the NAS printer, do the following:

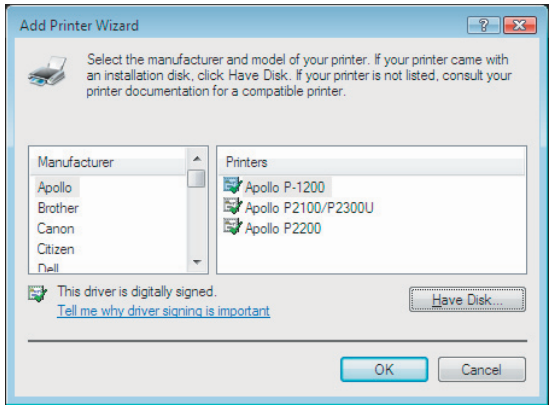
1. Click the **NAS Printer** from the left panel of the Web UI.
2. The following screen appears. Double click the **NAS-Printer** icon.



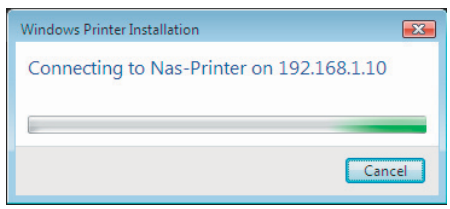
3. A pop up screen appears notifying you that the printer driver is not installed. Click **OK** to continue with the installation.



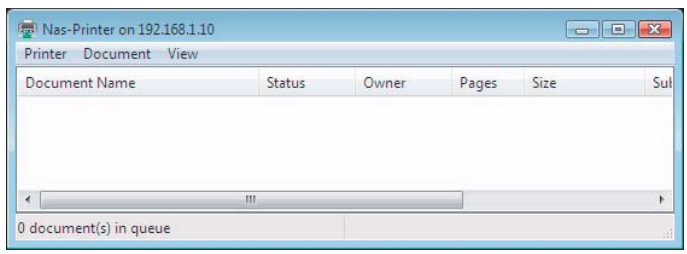
4. Select your printer manufacturer and model from the following screen and press the **OK** button. If your printer is not listed, click the **Have Disk** button to install the printer driver from the software CD that came supplied with your printer.



5. The installation progress screen appears.



6. When this following screen appears, the installation is finished.



- In order to use the shared printer, users must have the printer driver installed on their computers.
- You can connect the USB printer to either the front or rear USB port on your TS-S402 Network Storage Enclosure. Only the first connected USB printer will be enabled for use.

SPECIFICATIONS

Interface	Disk Management
One 1000BASE-T Gigabit Ethernet Two USB 2.0 Host Power on/off button USB quick backup button	Standard (Individual hard drive) JBOD RAID 0 RAID 1
File Sharing	**File System**
CIFS/Samba FTP NFS	FAT32 EXT2 EXT3
Supported Hard Drives	**Memory**
Two removable 3.5” external HDD (SATA I/II) up to 1500GB	Flash: 4M-Byte DDR SDRAM: 64M-Byte
Hard Drive Interface	**Data RAM Buffers**
Two hot swappable SATA II interfaces	128K Bytes
Media Servers	**Power**
UPnP AV Multimedia Server iTunes Server for iTunes player	12VDC, External Universal Switching Power adapter
Extensive Services	**Emission**
Remote package installation Bit-torrent client USB Print server	FCC Class B CE mark Class B VCCI-B
Dimensions (W x D x H)	**Temperature**
204 x 120 x 120 mm	Operating: 0 ~ 40^{o}C Storage: -20 ~ 70^{o}C
Diagnostic LEDs	**Humidity**
Power LED System LED HDD1 access LED HDD2 access LED LAN LED	Operating: 10% ~ 90% RH Storage: 5% ~ 95% RH

Limited Warranty

TRENDnet warrants its products against defects in material and workmanship, under normal use and service, for the following lengths of time from the date of purchase.

TS-S402	2 years

If a product does not operate as warranted above during the applicable warranty period, TRENDnet shall, at its option and expense, repair the defective product or deliver to customer an equivalent product to replace the defective item. All products that are replaced will become the property of TRENDnet. Replacement products may be new or reconditioned.

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