

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®

© Copyright 2007. All rights reserved.

No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language or computer language, in any form, by any means, without the prior written permission of the manufacturer.

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(VCC1)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.

CONTENTS

PREFACE	2
Copyright [®]	2
Notice	2
Conventions	2
Regulations	2
FCC Warning	2
CE Mark Warning	3
VCCI Warning	3
WEEE Notice	3
CONTENTS	
OVERVIEW	7
Package Contents	7
Features	
System Requirements	
Product Overview	
LED Definitions	
UNDERSTANDING RAID LEVELS	11
RAID 0	
Characteristics	11
RAID 1	
Characteristics	12
JBOD	
Characteristics	
GETTING STARTED	
Installing Hard Disks	
Connecting the Power	
Connecting to a Network	
Turning Your TS-S402 Network Storage Enclosure On and Off	
Installing the NAS Utility	
Uninstalling the NAS Utility	
Initializing and Accessing Your TS-S402 Network Storage Enclosure	
Formatting the installed hard disks	
Attaching the TS-S402 via NAS Utility	
Network configuration	
Login	
USING EXTERNAL USB DEVICES	
Connecting USB Devices	
Using the USB One-Click Backup Button	
Disconnecting USB Devices	
USING THE NAS UTILITY	
NAS Utility Overview	
Attach Other NAS	
User Management	
Device Information	
NAS Share Folder	
Creating a new folder	

Deleting a folder	29
Editing folder properties	29
Mounting a folder as a network drive	30
Refreshing the folder listings	31
Changing the folder style	31
Backup/Restore	32
Adding a backup task	33
Deleting a backup task	34
Editing a backup task	35
Starting a backup task	35
Setting a backup schedule	35
Removing a backup schedule	36
Viewing task properties	36
Device Setting	37
Change User	37
System Log	38
Clearing all the logs	38
Saving logs to a file	
USING THE WEB-BASED CONFIGURATION TOOL	39
Launching the Web-based Configuration Tool	39
Web-based Configuration Tool Overview	40
System Status	41
Configuration	42
Networking	42
Basic	43
Server Preference	44
Firmware Upgrade	44
Backup/Restore	45
Factory Defaults	46
Reboot/Shutdown	47
Remote Package	48
Share Management	49
Share Folder	49
User Management	51
Group Management	53

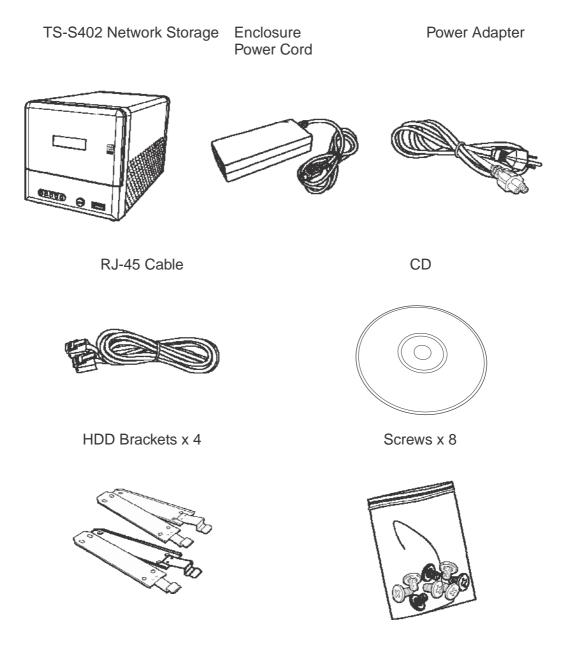
		Disk1 Dis Status: Normal Sta Total: 229.0GB Used: 81.0GB Free: 148.0GB	k2 atus: No Disk
🚺 System Status 🛛 👻	Add New Group		
🦆 Configuration 🛛 👻	Group Name		
🔓 Share Management 🛛 🕱	User List	admin 👻 Add New User	
Add Folder	Group Member		
User Management		Apply	
Group Management Quota Management			
🖥 Backup 🛛 😵			
🕅 Disk Utility 😵			
System Logs 🛛 😵			
Service Configuration 👻			
		Copyright © 2007 T	
Queta Managamar			
-	nt		
Scheduling Backup	nt		
Scheduling Backup k Utility	nt		
Scheduling Backup k Utility Disk Information	nt		
Scheduling Backup k Utility Disk Information Disk Mode	nt		
Scheduling Backup k Utility Disk Information Disk Mode Format Disk	nt		
Scheduling Backup k Utility Disk Information Disk Mode Format Disk Power Managemer	nt		
Scheduling Backup k Utility Disk Information Disk Mode Format Disk Power Managemen tem Logs	nt		
Scheduling Backup k Utility Disk Information Disk Mode Format Disk Power Managemen tem Logs Syslog Server	nt		
Scheduling Backup k Utility Disk Information Disk Mode Format Disk Power Managemer tem Logs Syslog Server System Logs	nt		
Scheduling Backup k Utility Disk Information Disk Mode Format Disk Power Managemer tem Logs Syslog Server System Logs vice Configuration FTP Server	nt		
Scheduling Backup k Utility Disk Information Disk Mode Format Disk Power Managemer tem Logs Syslog Server System Logs vice Configuration FTP Server	nt		
Scheduling Backup k Utility Disk Information Disk Mode Format Disk Power Managemen tem Logs Syslog Server System Logs vice Configuration FTP Server This page allows yo iTunes Server	nt nt pu to change the FT	P server settings on your TS-S40	
Scheduling Backup k Utility Disk Information Disk Mode Format Disk Power Managemer tem Logs Syslog Server System Logs vice Configuration FTP Server This page allows yo iTunes Server	nt nt ou to change the FT	P server settings on your TS-S40	
Scheduling Backup k Utility Disk Information Disk Mode Format Disk Power Managemer tem Logs Syslog Server System Logs vice Configuration FTP Server This page allows yo iTunes Server UPnP Server Dynamic DNS	nt pu to change the FT	P server settings on your TS-S40	
Scheduling Backup k Utility Disk Information Disk Mode Format Disk Power Managemen tem Logs Syslog Server Syslog Server System Logs Vice Configuration FTP Server This page allows you iTunes Server UPnP Server Dynamic DNS Download Center	nt nt ou to change the F1	P server settings on your TS-S40	
Scheduling Backup k Utility Disk Information Disk Mode Format Disk Power Managemer tem Logs Syslog Server System Logs vice Configuration FTP Server This page allows you iTunes Server UPnP Server Dynamic DNS BT Client	nt nt ou to change the FT	P server settings on your TS-S40	

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.



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.

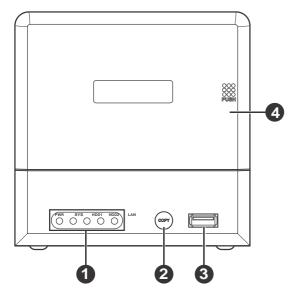
System Requirements

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

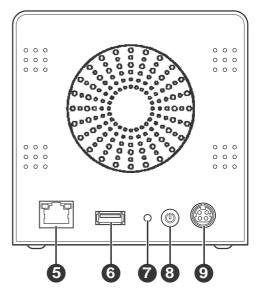
Product Overview

Front View



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

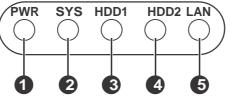




- 5 LAN port
- 6 USB port
- 7 Reset button
- 8 Power button
- 9 Power jack

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		Green	Indicates HDD1 link.
	Access LED	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	Green	Indicates HDD2 link.
	Access LED	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

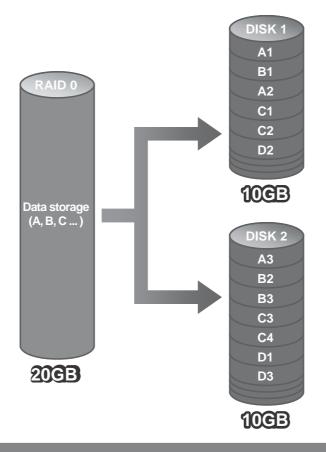
RAID 0, known as disk striping, has generally the best performance, but does not offer any redundancy. In this level, data is broken into small units called sectors, and sectors are distributed across all disks in the array. As it does not provide any data protection, if any disk in the array fails then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



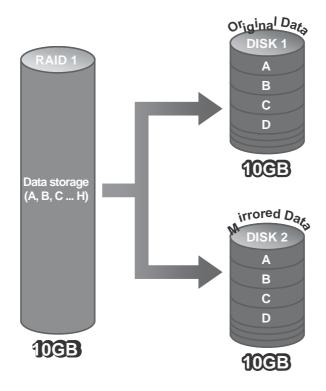
RAID 1

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.



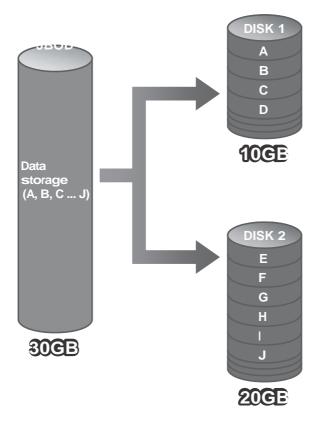
JBOD

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.



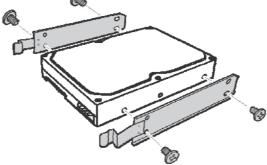
GETTING STARTED

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

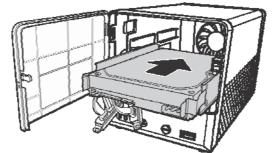
Installing Hard Disks

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.

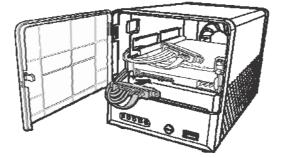
1. Secure the supplied HDD brackets to the both sides of a 3.5" hard disk using four screws as shown.



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



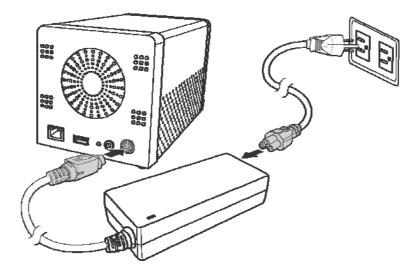
3. Connect the SATA cable connector to the hard disk.



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

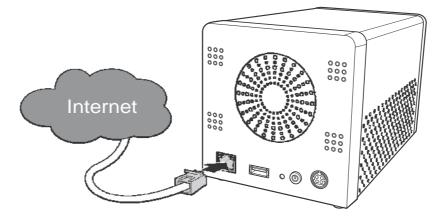
Connecting the Power

- 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

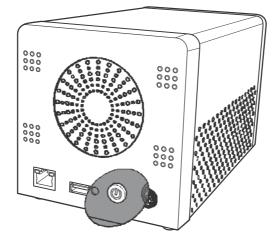
- 1. Connect one end of the supplied RJ-45 cable to an available port on your network hub or router.
- 2. Connect the other end of the RJ-45 cable to the LAN port on the rear of the TS-S402 Network Storage Enclosure.



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.

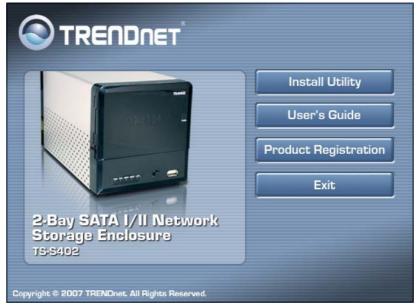
To turn your TS-S402 Network Storage Enclosure off, press and hold the POWER button on the rear of the TS-S402 Network Storage Enclosure at least 5 seconds.



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 (^{NAS Utility}) 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

ction Tip		Disk Info	rmation	
ease select o	ed two unformat hard disks, ine of the format modes, select one of the format types and Next* button when ready.		Disk Size	Status
ormat Mode:	Individual Disks	Disk1	Unknow	Unformat
ormat Type:	EXT3	Disk2	Unknow	Unformat
dividual Disk	s: Disks will be treated as two individual disks			

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.

tion Tip ormat successfully.	Disk Information
	Disk Size Status
	Disk1 Unknow Finish
	Disk2 75.24 GB 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**).

NAS Discovery	
Please select a NAS to attach.	
NAS	
192.168.1 0.10	
Refresh Attach	Cancel

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

9

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.

TS-S402

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.

OUse the following I	P addres	ss for N	IAS	
IP address:	3			
Subnet mask:	ŝ.			
Default gateway:	43.	•		

<u>Login</u>

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.

Name:	NAS
IP address:	192.168.10.10
User:	admin
Password:	****
🗹 Remembe	er my password

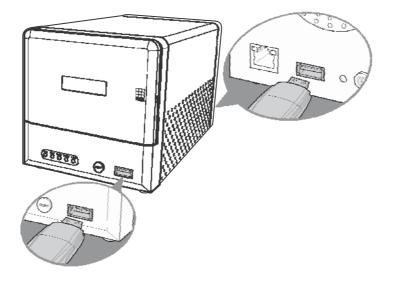


Check the **Remember my password** option so that you do not have to type in the username and password for each time login.

USING EXTERNAL USB DEVICES

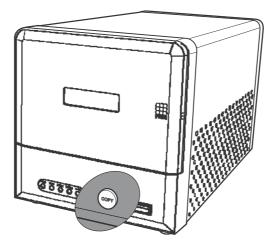
Connecting USB Devices

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

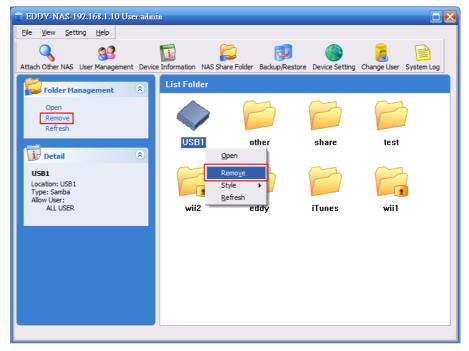
To safely remove a USB device from the TS-S402 Network Storage Enclosure, we suggest first remove the device via the NAS Utility or the Web-based Configuration Tool.

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".
- Select View > Share Folder from the menu bar, OR click NAS Share Folder (in the 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 popup menu.

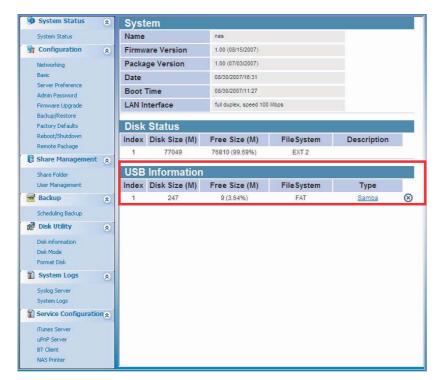


- 4. A confirmation message appears. Click OK to confirm or Cancel to abort.
- When the USB device is removed, a message pops up telling you that it is safe to unplug the USB device from the TS-S402 Network Storage Enclosure.

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)

9	System Status	۲	Disk I	nformatio	n			
	System Status		Index	Size (M)	Used Size (M)	File System	Description	
3	Configuration	۲	1	77049	239 (0.31%)	EXT 2		
	Networking		USB I	nformatio	n			
	Basic Server Preference		Index	Size (M)	Used Size (M)	File System	Туре	
	Admin Password		1	247	238 (96.36%)	FAT	Samba	8
	Firmware Upgrade Backup/Restore							
	Factory Defaults							
	Reboot/Shutdown							
	Remote Package							
	Share Management	۲						
	Share Folder User Management							
	Backup	*						
	Scheduling Backup	~						
	Disk Utility	۲						
	Disk information							
	Disk Mode Format Disk							
	System Logs							
1000		۲						
	Syslog Server System Logs							
	Service Configuratio							
	iTunes Server	~						
	uPnP Server							
	BT Client NAS Printer							
	INAD Printer							

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

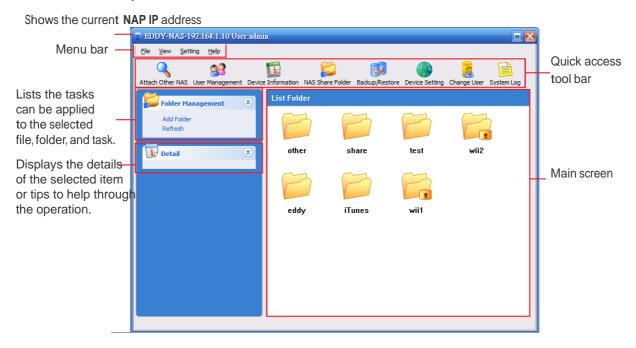


USING THE NAS UTILITY

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 Exit	Allows you to configure and manage the user's access to the TS-S402 Network Storage Enclosure. 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 Storage Enclosure.	Displays the information of the attached TS-S402 Network

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 (^{SS}) from the quick access tool bar. The following screen displays.

User Name	Own Folder
wiwi	[wii2] [wii1]
eddy	[wii2] [wii1]
0000	[wii2] [wii1]

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



(**I**) from the quick access tool bar. The following screen displays.

D	evice Information				\mathbf{X}
	System Info				
	Name:	EDDY-NAS			
	IP Address:	192.168.1.1	0		
	MAC Address:	00:14:6C:77	7:51:81		
	Firmware Version:	1.00.11			
	Package Version:	1.20	1.20		
	Boot Time:	11/12/2007/	11/12/2007/13:32		
	LAN Interface:	full duplex, s	full duplex, speed 100 Mbps		
	Disk Mode:	Individual D	Individual Disk		
	Storage Info				$\overline{}$
	Name File System	Total Size	Used Size	Free Size	
	Disk1 Ext3	293.04 GB	185.38 GB	107.65 GB	
	Disk2 Ext3	293.04 GB	292.2 GB	855 MB	
				ОК	

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

System Info	 NAS system name 	 Package version
	• IP address	Boot time
	MAC address	 LAN interface
	 Firmware version 	• Disk mode
Storage Info	Name of installed disks	Used size
	 File system 	• Free size

• Total 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.

EDD Y-NAS-192.168.1.10 User:admi	<u>n</u>			
<u>File View S</u> etting <u>H</u> elp				
S S S S S S S S S S S S S S S S S S S		2 😥	<u> </u>	2
Attach Other NAS User Management Device	Information NAS Sha	re Folder Backup/Resto	ore Device Setting	Change User System Log
😼 Folder Management 🔹	List Folder			
Add Folder Refresh	P		P	
Detail 🛞	other	share	test	wii2
	P	P		
	eddy	iTunes	wii1	

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.

Disk Name	Disk1	~			
Folder Name					
Protocol Type	🗹 Samba	FTP			
Folder Type	💿 Public	O Priv	vate	Create	 Cancle

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.

Z M	ap Netw	ork Drive	×
0	🧐 Map	Network Drive	
		network folder would you like to map? he drive letter for the connection and the folder that you want to connect to:	
	<u>D</u> rive:	Z:	
	F <u>o</u> lder:	\\10.0.0.100\123	
		Example: \\server\share	
		Reconnect at logon	
		Connect using a <u>different user name</u> .	
		Connect to a Web site that you can use to store your documents and pictures.	
		<u> </u>	:

- 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

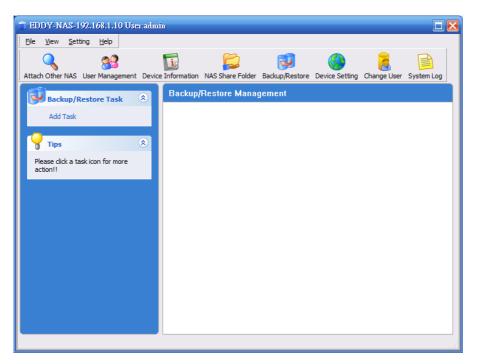
The **NAS Share Folder** provides two styles for you to view a list of folders: **Icon Style** and **Report Style**. Right-click anywhere in the **NAS Share Folder** main screen, then select **Style** from the pop-up menu.

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.

	r backup source folde er will backup to NAS.		
Folder	Total Size	Path	Select
			Remove
	III.	>	1

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

All	files in the folde	r will backup to NAS.		
	Folder	Total Size	Path	Select
	DATA (E:)	220.78 MB	E:\	
				Remove
<		III		>

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

	older in NAS to stor kup process only s der.		Refresh
Folder	Location	Support Type	Share 🖉
movie	Disk2	Samba	Public
mp 3	Disk2	Samba	Public
share	Disk2	Samba	Public
share	Disk1	Samba	Public
100	Diald	Combo	Dublia



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

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

Task Wizard		×
Enter the Task nam	ne task name for task managem	ent
The task name quickly executi	will show in Backup/Restore	page for
Task Name:	aaa]
	Apply	Cancel
<u>(</u>		

- 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 popup 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:

 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.

Routine (🔾 One Time		
Set time			
radio box,	then set the executing set the schedule, utility IAS. Execute time	date and time.	
O Weekly O Monthly	On each		

- 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:

 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:

 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.

NAS Bac Nas Nas Nas The	k created by IP: kup size: folder nam folder shau folder use last backup kup folders	e: re type: type:) time:	admin 10.0.0.10 222 KB 123 Public Samba 18:10:05,		Ex
Duc	Folder	Size	Path	1	
6	pic	222 KB	C:\pic		
		_			

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.

ड स	DY-N	AS-192.	168.1.1	0 User	admi:	<u>n</u>					
<u> </u>	<u>V</u> iew	<u>S</u> etting	<u>H</u> elp								
			23			i		1	<u> </u>	2	
Attac	h Other	NAS Use	r Manag	ement	Device	Information	NAS Share Folder	Backup/Restore	Device Setting	Change User	System Log
	Log	Manage		3		Log list					
	Clear	All Log				No.	Time		Туре		Descriptio
		Logs									
	<u></u>										
	Tips			3	۲						
		clude the i		Backup							
	na Resta	ore operat	ion.								
						<		1			>

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.

	100%	0%	Disk1 Status: Normal Total:229.06B Used: 171MB Free: 228.86B		Disk2 Status: No Disk	Used Free
🚺 System Status 🛛 🔊	System	n				
System Status	System					
🥬 Configuration 🛛 😨		Name	NAS			
🕌 Share Management 😴	Fit	mware Version	1.00.11			
🛃 Backup 🔍	Р	ackage Version				
			07/06/2000/20:27			
🗗 Disk Utility 🛛 👔		Doot mile				
📑 System Logs 🛛 😨			full duplex, speed 100 f 00-14-6C-77-51-81	Abps		
Service Configuration 👻	Disk Sta	itus				
	Disk#	Disk Size (M)	Free Size (M)	File System	Description	
	1	234483	234312 (99.9%)	EXT 2	-	
	USB In	formation				
	Disk#	Disk Size (M)) Free Size (M)	FileSystem	Туре	

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.

	100%		isk1 tatus: Normal otal:229.0GB sed: 171MB ree: 228.8GB		Disk2 Status: No Disk	Used Free
🚺 System Status 🛛 🔊	Syste	m				
System Status	System	i				
🧳 Configuration 🛛 💽		Name	NAS			
🕌 Share Management 🛛 😵	Fi	rmware Version	1.00.11			
Backup 😵	F	Package Version	1.10			
			07/06/2000/20:27			
📌 Disk Utility 🛛 👔			07/06/2000/20:11			
📑 System Logs 🛛 😵			ull duplex, speed 100 M	Mbps		
Service Configuration 😵		MAC Address	00-14-6C-77-51-81			
	Disk Sta	atus				
	Disk#	Disk Size (M)	Free Size (M)	FileSystem	Description	
	1	234483	234312 (99.9%)	EXT 2	-	
	USB In	formation				
	Disk#	Disk Size (M)	Free Size (M)	File System	Туре	
						-
				Copyright ©	2007 TRENDnet. All Rig	hts Reserved.

Configuration

Networking

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

	Networking		
🚺 System Status 🛛 😵	inening		<u>^</u>
Configuration Networking Basic Server Preference Admin Password Firmware Upgrade Backup/Restore Factory Defaults Reboot/Shutdown Remote Package Share Management Share Management Software Share Management Software System Logs Service Configuration	Networking DNS Server	DHCP Client IP Address 192.168.10.10 Subnet Mask 255.255.255.0 Gateway 192.168.10.1 Auto-detect Manual DNS IP	

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.

<u>Basic</u>

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

		Disk1 Disk2 Used Free Status: Normal Status: No Disk Iotal: 229.0GB Jsed: 81.0GB Free: 148.0GB
🚺 System Status 🛛 😨	Basic Settings	
🭎 Configuration 🔿	Machine Name	PM-PACKAGE
Networking	Group	WORKGROUP
Basic Server Preference	Web Port	80
Firmware Upgrade	Https	Enable
Backup/Restore Factory Defaults	Jumbo Frame	Enable
Reboot/Shutdown	Character Set	
Remote Package	Time Zone	America/Canada Pacific Area
🕌 Share Management 👿	Set System Time	Enable NTP
🛃 Backup 😨		ntp.windows.com
😥 Disk Utility 😵		Remember to set up at least one DNS server if you enter a host name.
🖹 System Logs 🛛 😵		Apply
Service Configuration		ļ
		Copyright © 2007 TRENDnet. All Rights Reserved.

e name of the TS-S402 Network Storage Enclosure.
e name of the group to which the current 2 Network Storage Enclosure belongs.
e port number used to communicate with the TS-S402 Network Storage Enclosure. The is 80.
his check box to enable web login https and user
his check box to enable Jumbo Frame.
he character encoding to display the Web UI
an appropriate time zone for the current Multimedia
e date and time in this field with the given format Date/Year Hour: Min). Or click the button to ne date from a pop-up calendar. 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.

	100% 🔵 0%	Disk1 Status: Normal Total:229.0GB Used: 171MB Free: 228.8GB	Used Disk2 Free Status: No Disk
🚺 System Status 🛛 👻	Server Preference	e	
🔰 Configuration 🔊	Samba	💿 Enable 🔘 Disable	
Networking	FTP	Enable Disable	
Basic	NFS	🖲 Enable 🔘 Disable	
Server Preference Admin Password	UPnP A/V	Enable Disable	
Firmware Upgrade	iTunes	Enable Disable	
Backup/Restore		Apply	
Factory Defaults Reboot/Shutdown			E
Remote Package			
🕌 Share Management 🛛 😵			
🛃 Backup 🛛 😵			
Disk Utility 😵			
📑 System Logs 🛛 👻			
👔 Service Configuration 😵			
		Coj	oyright © 2007 TRENDnet. All Rights Reserved.

Firmware Upgrade

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

e	
Select a firmware file to upload and click on Upgrade to start the firmware upgrade. Browse	
Upgrade	
ļ	Select a firmware file to upload and click on Upgrade to start the firmware upgrade. Browse

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.

		100% - 0%	Disk1 Status: Normal Total:229.0GB Used: 171MB Free: 228.8GB	Used Disk2 Free Status: No Disk
🚺 System Status	>	Configuration Ba	ckup/Restore	<u>^</u>
Networking Basic Server Preference Admin Password Firmware Upgrade Backup/Restore Factory Defaults Reboot/Shutdown Remote Package Share Management Backup		Backup configuration Restore configuration	Click the button below to save the syst drive. Save configuration Click the button below to restore the cor restoring the configurations. Restore configuration	
Service Configuration	*			iaht © 2007 TRENDnet, All Rights Reserved.

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

Configuration File Restore		
Configuration File Restore	Select the configuration file to upload and start restore. Browse	
	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.

	100%	Disk1 Status: Normal Total:229.0GB Used: 171MB Free: 228.8GB	Disk2 Status: No Disk	Used Free
🚺 System Status 🛛 👻	Reboot/Shutdow	n		
Configuration Networking Basic Server Preference Admin Password Firmware Upgrade Backup/Restore Factory Defaults Reboot/Shutdown Remote Package Share Management Backup Backup Backup Backup Backup South Utility System Logs	Reboot	If you click "Yes", the unit will rebo Are you sure you want to proceed? Yes No If you click "Yes", the unit will shut Are you sure you want to proceed? Yes No	down immediately.	
Service Configuration 😵		c	opyright © 2007 TRENDnet. All Rig	hts Reserved.

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.

1	Remote Package Install		
3	Remote Package Install	Select the package to upload and click the Install button to start remote package installation. Browse	
1		Instell	

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.

	64.6%	% Disk1 Status: Normal Total: 229.06B Used: 81.06B Free: 148.06B		Disk2 Status: No Disl	Used Free C
🕕 System Status 🛛 👻	Share Folder	•			
🎾 Configuration 🛛 😵	Disk Index	Folder Name	User Name	Туре	
🕌 Share Management 🛛 🔝	Disk1	share	All user	Samba	2
Add Folder	Disk1	Certifications	All user	Samba	3 🙆
User Management Group Management	Disk1	Final-review	All user	Samba	% 🙆
Quota Management	Disk1	Packaging	All user	Samba	-> 🙆
🛃 Backup 🛛 😒					+
p Disk Utility 🛛 😵					
🛓 System Logs 🛛 😵					
👔 Service Configuration 😵					
			Copyright © 20()7 TRENDnet. All I	Rights Reserv

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 (i) 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.

	64.6% 35.4%	Disk1 Status: Normal Total: 229.0GB Used: 81.0GB Free: 148.0GB	Use Disk2 Free Status: No Disk	
🚺 System Status 🛛 😵	Add Share Fold	er		Â
💋 Configuration 🛛 👻	Disk Name	Disk1 👻		
🕌 Share Management 🛛 🕅	Folder Name	•		
Add Folder	Protocol Type	Samba 🗖 FTP 🗖 NFS		
User Management Group Management	Folder Type	🛛 Anonymous 🕅 Private Folder		
Quota Management		Apply		
🛃 Backup 🛛 😵				E
💦 Disk Utility 🛛 👻				
🕒 System Logs 🛛 👻				
👔 Service Configuration 😵				
		Conv	right © 2007 TRENDnet. All Rights Rese	- Neve

Disk Name	<u>When adding a folder</u> . Select a disk for the new folder to be created.
	<u>When editing a folder</u> . 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.

r Management		
User Name	Private Folder	
admin		3
		+
		Copyright © 2007 TRENDnet, All

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 (i) Click to edit a user. The Edit User page displays.

Delete (3) 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 O or Edit O button from the User Management page. The Add/Edit User page displays.

		Disk1 Status: Normal Total: 229.068 Used: 81.068 Free: 148.068		Used Free
🚺 System Status 🛛 😵	Add User			
🎾 Configuration 🛛 👻	User Name			
🕌 Share Management 👔	Password			
Add Folder	Confirm Password			
User Management Group Management	User Level	user 👻		
Quota Management	Group List	Add New Group		
🛃 Backup 🛛 😵	Groups			_
pr Disk Utility 🛛 😵		Apply		
📑 System Logs 🛛 😵				
👔 Service Configuration 😵				
		Popurisht @	2007 TRENDnet: All Rights F	Depenved

User Name	<u>When adding a user</u> . Enter the name of a new user. <u>When editing a user</u> . 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 (6) Click to edit a user. The **Config Group** page displays.
 - **Delete** (**S**) 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.

			Disk1 Status: Normal Total: 229.06B Used: 81.06B Free: 148.06B	Disk2 Status: No Disk	Used Free
🚺 System Status	×	Add New Group			
💋 Configuration	×	Group Name			
📲 Share Management	*	User List	admin 👻 Add New User		
Contraction of the local division of the loc	×	Group Member	Apply		_
	×				
T Service Configuration	×				

Group Name	<u>When adding a group</u> : Enter the name of a new group. <u>When editing a group</u> : 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.

	•	64.6% 35.4%	Disk1 Status: Normal Total: 229.0GB Used: 81.0GB Free: 148.0GB	Disk2 Status: No Disk	Used Free
🕕 System Status	$\overline{\mathbb{Z}}$	User Quota Man	agement		- A
Configuration	$\overline{\mathbf{x}}$	User Quota Manage	ement		
🚯 Share Management	2	User Name	Quota Disk	Quota Size(M)	
Add Folder User Management Group Management <u>Quota Management</u>		Group Quota Manag	gement		+
Backup	~	Group Name	Quota Disk	Quota Size (M)	
17 Disk Utility	$\overline{\mathbf{S}}$				+
📄 System Logs	2				
T Service Configuration	×			Conversely & 2007 TDENDoot All Dir	Ļ

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 (6) Click to edit an user quota or a group quota.
- **Delete** (8) 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.

Add User Quota					
Select User	admin 👻				
Select Disk	Disk 1 🔻				
Quota Size	(MB)				
	Apply				

Add Group Quota						
Select Group						
Select Disk	Disk 1 👻					
Quota Size	(MB)					
	Apply					

Select Group	<u>When adding an user or group</u> : Select the name of an user or a group. <u>When editing a group</u> : 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.

	100%	Disk1 Status: Normal Total:229.0GB Used: 171MB Free: 228.8GB	Used Disk2 Free Status: No Disk
🚺 System Status 🛛 😵	Scheduling Back	up Files	
🥬 Configuration 🛛 😵	Schedule	Enable	
🖡 Share Management 👳	Description	Setting the schedule to backup the local folder of	on NAS.
	Auto Delete		
Backup 🔝	Setting Frequency	Every Hour Devery Day Every Weel	k 🔘 Every Month
<u>Scheduling Backup</u>	Setting Hours : Mins	0 - : 10 - Hour : Minutes	
p Disk Utility 🛛 😵	Setting Day of Month	ALL -	
📑 System Logs 🛛 😵	Setting Day of Week	ALL -	E
👔 Service Configuration 🛛 😵	Source Directory		
	Destination Directory		
		Apply	
			•
		Copyright © 20	07 TRENDnet. All Rights Reserved.

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.

	64.6%	Tota Usec	1 us: Normal ul: 229.0GB : 81.0GB : 148.0GB		Disk2 Status: No Disk	
🚺 System Status 🛛 👿	Disk Inf	ormation				
Configuration 🛛 😵	Disk Inf	ormation		_		
🚦 Share Management 🛛 😨	Disk#	Disk Size (M)	Used Size (M)	File System	Description	
Backup 👻	1	234482	82971 (35.4%)	EXT 2	-	
🔂 Disk Utility 🔿						
Disk Information	USB Inf	USB Information				
Disk Mode Format Disk	Disk#	Disk Size (M)	Used Size (M)	File System	Туре	
Power Management	S.M.A.R	.T. Status	_	_		
System Logs 🛛 😵	Disk#	Dev	vice	Healt	th Test Result	
👔 Service Configuration 😵	1	WDC WD250	0JS-60NCB2		ОК	
					007 TRENDnet. All Rights Reserve	

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.

		Disk1 Status: Normal Total: 229.0GB Used: 81.0GB Free: 148.0GB	Disk2 Status: No Disk	Used Free
🚺 System Status 🛛 😨	Disk Mode Settin	g		<u>^</u>
Configuration Share Management Backup Share Management Share M	Disk Mode	 Individual Disks RAID 0 (Striped) RAID 1 (Mirrored) JBOD (Just A Bunch Of Disks) 		
Disk Utility	File System	EXT 3 - Apply		=
System Logs 😨				·

- **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.

		Disk1 Status: Normal Total: 229.0GB Used: 81.0GB Free: 148.0GB	Disk2 Status: No Disk	Used Free
🚺 System Status 🛛 😵	Format Disk			
Configuration	Format Disk			
🔋 Share Management 🛛 😵	Disk	Disk 1 👻		
Backup 😵	File System	EXT 3 👻		
n Disk Utility	Description			
Disk Information		Format Selected Disk		
Disk Mode	Format USB			
Format Disk Power Management	USB			
📑 System Logs 🛛 😵	File System	FAT 32 🔻		
Service Configuration 🕉		Format Selected USB		
		2m (1)		
			covright © 2007 TRENDnet. All Righ	to Deserved

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

8	TRENDNET			Disk1 Status: Normal Total: 229.0GB Used: 81.0GB Free: 148.0GB	Disk2 Status: No Disk	Used Free
0	System Status	×	Power Managem	ent Setting		
1	Configuration	×	Power Management	Q	Enable 🔿 Disable	
1	Share Management	*	Turn Off Hard Drives	a	fter 30 🔻 minutes	
2	Backup	*		Apply		
1	Disk Utility	*				
F	Disk Information Disk Mode Format Disk Power Management					ш
B	System Logs	*				
ñ	Service Configuration	8				

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.

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.

	100%	Disk1 Status: Normal Total:229.0GB Used: 171MB Free: 228.8GB	Disk2 Free Status: No Disk
🧿 System Status 🛛 👻	Remote System	Log	Â
Configuration	Server IP	1.2.3.4	
🚦 Share Management 🛛 😵	Syslog Server	Enable	
Backup 👻	Mail Alert	Enable	
	SMTP		
	Mail address		
📑 System Logs 🛛 🔊	SMTP Auth Enable	Enable	
<u>Syslog Server</u>	SMTP Auth User		E
System Logs	SMTP Auth Password		
Service Configuration 👻		Apply	
			D07 TAENDnet. All Rights Reserved.

- **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 AlertEnable 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.

	Г	100%	0% To	isk1 tatus: Normal otal:229.0GB sed: 171MB ree: 228.8GB	Used Disk2 Free Status: No Disk
🚺 System Status	×	System Lo	g		
🤌 Configuration	×				Clear log
Share Management	×	Date/Time	Type	Description	
p share rianagement	~	Jul 6 20:27:37	info	route add default gw 192.168	1.254
🛃 Backup	×	Jul 6 20:27:37	info	ifconfig egiga0 192.168.1.174	
🔁 Баскир	<u> </u>	Jul 6 20:12:00	info	date 070620122000	
71		Jul 6 20:12:15	info	route add default gw 192.168	.10.1
💦 Disk Utility	~	Jul 6 20:12:15	info	ifconfig egiga0 192.168.10.10	
		Jul 6 20:12:12	info	Backup service ready!!	
📥 System Logs	*	Jul 6 20:12:09	info	NFS service started!!	
		Jul 6 20:12:09	info	07/06/2000/20 12	
Syslog Server					
<u>System Logs</u>					
ሽ Service Configuration	×				

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.

	35.4% Disk1 Status: Normal Total: 229.0GB Used: 81.0GB Free: 148.0GB	Used Disk2 Free Status: No Disk
🚺 System Status 🛛 👻	FTP Server	
🎁 Configuration 🛛 👻	FTP Port 21	
🖡 Share Management 💿	Upload Limit 0 (unit KB/s) ('0' means no limit.)	
🛃 Backup 🛛 👻	Download 0 (unit KB/s) ('0' means no limit.)	
tr Disk Utility 🛛 👻	Apply	
📮 System Logs 🛛 👻		
👔 Service Configuration 底		E
FTP Server		
iTunes Server UPnP Server		
Dynamic DNS		
Download Center BT Client		
NAS Printer		
	Co	pyright © 2007 TRENDnet. All Rights Reserved.

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.

		Disk1 Status: Normal Total: 229.0GB Used: 81.0GB Free: 148.0GB	Disk2 Status: No Disk	Used Free
🕕 System Status 🛛 😵	iTunes Server			
🧳 Configuration 🛛 😵	iTunes Server Name	iTunesServer		
🕌 Share Management 🛛 😵	Share Folder	share 👻		
🛃 Backup 😴	Refresh Time (second)	0	('0' is no refresh.)	
Disk Utility	Enable Password	Enable		
	Set Password			
System Logs 🛛 👔	Confirm Password]	
Service Configuration 🔝		Apply		E
FTP Server				
i <u>Tunes Server</u> UPnP Server				
Dynamic DNS				
Download Center				
BT Client NAS Printer				
			Copyright © 2007 TRENDnet. All Rights	s Reserved.

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 Confirm Password	Enter the password for iTunes server access. 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.

	35.4% Disk1 Status: Normal Total: 229.0GB Used: 81.0GB Free: 148.0GB	Used Disk2 Free Status: No Disk
🚺 System Status 🛛 👻	UPnP Server	
💋 Configuration 🛛 😵	UPnP A/V Server Name MediaServer	
🕌 Share Management 🛛 😵	Folder List Certifications Add New Share Fol	lder
🛃 Backup 🛛 😵	Share List share	Delete
🞼 Disk Utility 🛛 👻	Apply	
📑 System Logs 🛛 😵		
FTP Service Configuration S FTP Server ITunes Server <u>UPnP Server</u> Dynamic DNS Download Center BT Client NAS Printer		right © 2007 TRENDnet. All Rights Reserved.

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.

		Disk1 Status: Normal Total: 229.0GB Used: 81.0GB Free: 148.0GB	Disk2 Free Status: No Disk	
🕕 System Status 🛛 😨	Dynamic DNS		-	
🧯 Configuration 🛛 👻	Dynamic DNS	Enable		
🕌 Share Management 😨	Refresh Time (minute)	30 -		
🛃 Backup 😵	Service Name	dyndns 👻		
	User Name			
👘 Disk Utility 🛛 👻	Password			
System Logs 🛛 😵	Host Name			
👔 Service Configuration 🛣		Apply	=	-
FTP Server			74	
iTunes Server UPnP Server				
Dynamic DNS				
Download Center				
BT Client				
NAS Printer				
				-
	977) 1	Copyright © ;		ed.

Dynamic DNS page.	Check the Enable box to configure the settings on this
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** (**i**) Click to stop downloading.
 - **Delete** (8) Click to delete a download.

Add Download

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

	35.4% Disk1 Status: Normal Total: 229.0GB Used: 81.0GB Free: 148.0GB	Disk2 Free Status: No Disk
🕕 System Status 🛛 😵	Download Setting	
🥬 Configuration 🛛 👻	URL	
🖡 Share Management 🛛 😨	Download Limit 0 (unit KB/s)	
🛃 Backup 🛛 👻	Retry Limit 0	
💦 Disk Utility 😵	Anonymous I Anonymous	
💄 System Logs 🛛 😵	User Name	
Service Configuration	Password	
FTP Server	Download Certifications -	
iTunes Server UPnP Server	Apply	
Dynamic DNS		
Download Center		
BT Client		
NAS Printer		
		Copyright © 2007 TRENDnet. All Rights Reserved.

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 cancel the download. Click the Add (Configuration page. Deand stop (O) buttons in this page to start button to open the **Upload Torrent And**

T Seed	Status						
Name	Complete	Down-rate	Up-rate	Downland-size	Upload-size	Status	
							•

Upload Torrent And Configuration

Upload Torrent Ar	nd Configuration
Max bandwidth up	0 (unit KB/s)
Max bandwidth down	0 (unit KB/s)
Max peers count.	100
Download the directory	Folder1 -
Seed	Browse
	Apply

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.

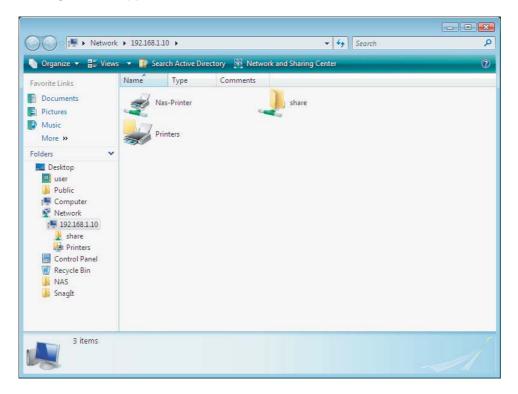
NAS Printer

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

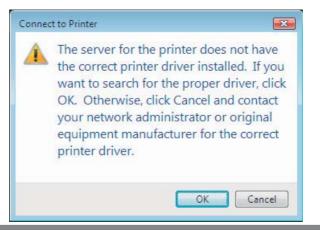
connect a USB printer to an available USB port on your TS-S402 Network Storage Enclosure. (See "**Using External USB Devices**" on page 20 for connections.) Users can print out anything on this printer.

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.



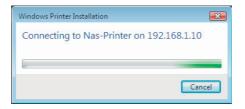
3. A pop up screen appears notifying you that the printer driver is not installed. Click **OK** to continue with the installation.



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.

	A Dra	2		
Manufacturer				
Apollo Brother		Apollo P-1200 Apollo P2100/P230	011	
Canon		Apollo P2200 Apollo P2200	00	
Citizen		001012200		
Dell	-			

5. The installation progress screen appears.



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

Printer Document View					
Document Name	Status	Owner	Pages	Size	Su



- 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.

TRENDnet shall not be responsible for any software, firmware, information, or memory data of customer contained in, stored on, or integrated with any products returned to TRENDnet pursuant to any warranty.

There are no user serviceable parts inside the product. Do not remove or attempt to service the product through any unauthorized service center. This warranty is voided if (i) the product has been modified or repaired by any unauthorized service center, (ii) the product was subject to accident, abuse, or improper use (iii) the product was subject to conditions more severe than those specified in the manual.

Warranty service may be obtained by contacting TRENDnet office within the applicable warranty period for a Return Material Authorization (RMA) number, accompanied by a copy of the dated proof of the purchase. Products returned to TRENDnet must be pre-authorized by TRENDnet with RMA number marked on the outside of the package, and sent prepaid, insured and packaged appropriately for safe shipment.

WARRANTIES EXCLUSIVE: IF THE TRENDNET PRODUCT DOES NOT OPERATE AS WARRANTED ABOVE, THE CUSTOMER'S SOLE REMEDY SHALL BE, AT TRENDNET'S OPTION, REPAIR OR REPLACEMENT. THE FOREGOING WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, EITHER IN FACT OR BY OPERATION OF LAW, STATUTORY OR OTHERWISE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. TRENDNET NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH THE SALE, INSTALLATION, MAINTENANCE OR USE OF TRENDNET'S PRODUCTS.

TRENDNET SHALL NOT BE LIABLE UNDER THIS WARRANTY IF ITS TESTING AND EXAMINATION DISCLOSE THAT THE ALLEGED DEFECT IN THE PRODUCT DOES NOT EXIST OR WAS CAUSED BY CUSTOMER'S OR ANY THIRD PERSON'S MISUSE, NEGLECT, IMPROPER INSTALLATION OR TESTING, UNAUTHORIZED ATTEMPTS TO REPAIR OR MODIFY, OR ANY OTHER CAUSE BEYOND THE RANGE OF THE INTENDED USE, OR BY ACCIDENT, FIRE, LIGHTNING, OR OTHER HAZARD.

LIMITATION OF LIABILITY: TO THE FULL EXTENT ALLOWED BY LAW TRENDNET ALSO EXCLUDES FOR ITSELF AND ITS SUPPLIERS ANY LIABILITY, WHETHER BASED IN CONTRACT OR TORT (INCLUDING NEGLIGENCE), FOR INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY KIND, OR FOR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS, LOSS OF INFORMATION OR DATE, OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE SALE, INSTALLATION, MAINTENANCE, USE, PERFORMANCE, FAILURE, OR INTERRUPTION OF THE POSSIBILITY OF SUCH DAMAGES, AND LIMITS ITS LIABILITY TO REPAIR, REPLACEMENT, OR REFUND OF THE PURCHASE PRICE PAID, AT TRENDNET'S OPTION. THIS DISCLAIMER OF LIABILITY FOR DAMAGES WILL NOT BE AFFECTED IF ANY REMEDY PROVIDED HEREIN SHALL FAIL OF ITS ESSENTIAL PURPOSE.

Governing Law: This Limited Warranty shall be governed by the laws of the state of California. <u>Note</u>: AC/DC Power Adapter, Cooling Fan, cables and Power Supply carry 1-Year Warranty

Some TRENDnet products include software code written by third party developers. These codes are subject to the GNU General Public License ("GPL") or GNU Lesser General Public License ("LGPL").

Go to <u>http://www.trendnet.com/gpl</u> or <u>http://www.trendnet.com</u> Download section and look for the desired TRENDnet product to access to the GPL Code or LGPL Code. These codes are distributed WITHOUT WARRANTY and are subject to the copyrights of the developers. TRENDnet does not provide technical support for these codes. Please go to <u>http://www.gnu.org/licenses/gpl.txt</u> or <u>http://www.gnu.org/licenses/lgpl.txt</u> for specific terms of each license.



Product Warranty Registration

Please take a moment to register your product online. Go to TRENDnet's website at http://www.trendnet.com/register

TRENDNET 20675 Manhattan Place Torrance, CA 90501 USA

Copyright ©2009. All Rights Reserved. TRENDnet.