Single-Bay NAS Server

NAS-1101

User's Manual

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Revision

User's Manual for PLANET Single-bay NAS Server NAS-1101

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Part No. EM-NAS1101

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Chapter 1 Introduction

The typical installation of PLANET NAS-1101 can be completed in less than ten minutes without any additional configuration of other servers or clients on your network. With the features of a compact, economical and powerful storage server, the NAS-1101 fits your SOHO (Small Office or Home Office) or personal requirements. It functions as a file / FTP / Web server and provides an easy way for LAN users to backup data or share files through Intranet and Internet. The embedded BitTorrent client feature brings you the most conveniences to download shared resources from Internet.

1.1 Package Contents

Make sure that you have the following items:

- One NAS-1101
- One AC Power Adapter
- One CD-ROM
- One Quick Installation Guide
- One Accessory pack (Rubber Foot and Screws)

Note: If any of the above items are missing, contact your local supplier for support.

1.2 Features

- Provides a 10/100Mbps Ethernet port (Auto MDI/MDIX) for network connection
- Easy configuration via web interface
- Supports all standard 3.5” IDE HD up to 250GB with EXT3 file format
- Auto Networking Configuration Utility for Windows OS
- Supports CIFS/SMB for Microsoft Network users to easily retrieve files by using “My Network Places”
- Built-in FTP server for user conveniently transfer files
- Built-in BitTorrent client for peer-to-peer file sharing
- Built-in web server allows user to create a personal website
- Unicode support for correct display of different languages
- Compatible with Microsoft Windows systems (SMB, TCP/IP) and Linux/MAC systems (TCP/IP)
- Provides three Pre-defined User levels
- Allows up to five online users of Samba (Concurrently connected) and five online FTP users (Concurrently connected)
- Auto-detect HDD for newly installed HDD
- Provides password security for web management & HDD access

1.3 Specification

Support Protocol	TCP/IP, FTP, HTTP, SMB
Standards	IEEE 802.3, IEEE 802.3u
LAN Connector	One RJ-45 Interface
LAN Speed	10/100 Mbps

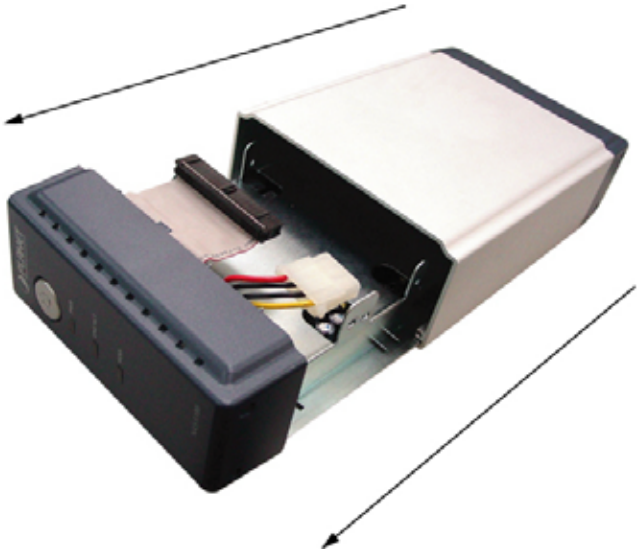
LEDs	PWR, LNK/ACT. HDD
System Configuration	Windows Base utility Web Browser (Internet Explorer, Netscape)
Dimensions	220 x 60 x 132 mm (W x D x H)
Weight	865g (without HDD)
Supported Hard Disk	Removable 3.5” External HD (ATA)
Operating	Temperature: 0 ~ 40°C Humidity: 10 ~ 95%(non-condensing)
Storage	Temperature: -10 ~ 70°C Humidity: 10 ~ 95%(non-condensing)
Power Adapter	12V DC, 3A
Regulatory	FCC Class B, CE

Chapter 2 Hardware Installation

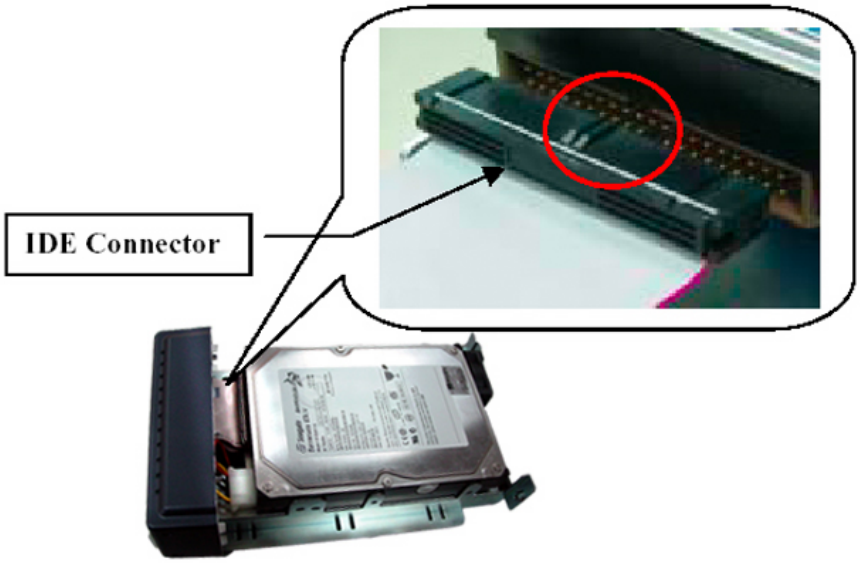
Please refer to the steps below to install your HDD into NAS-1101:

1. Loosing the two screws on the rear panel by screwdriver or hands.

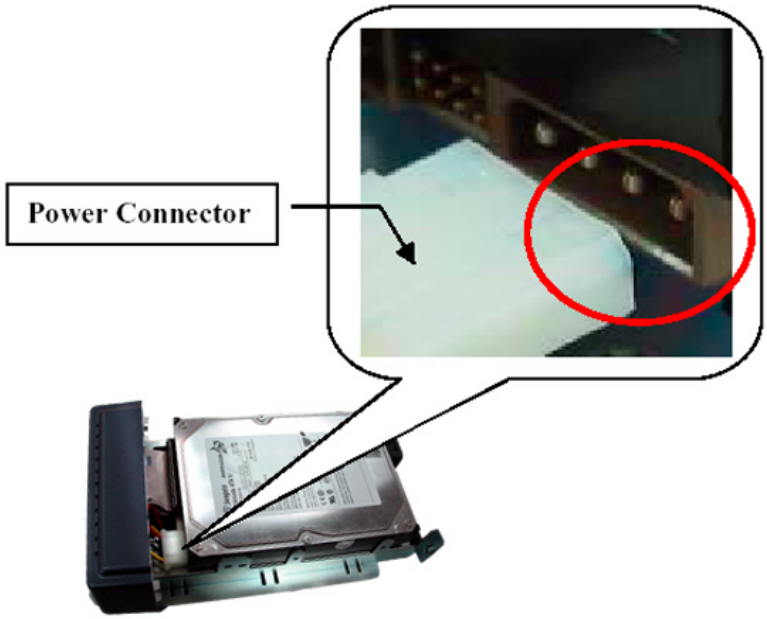
2. Grabbing the front panel and separate the HD holder from case.



3. Your HD jumper should be set to Master. Different Hard Disk has different jumper settings; please refer to your Hard Disk manual for correct setting.
4. Insert the IDE connector into the IDE socket of the Hard Disk. Make sure the pin 1 on the cable is connected to pin 1 on the HD socket. Pin 1 is the red or pink strip on the edge of an IDE cable. The IDE cables are designed so that it will only go in one way, which will correspond to pin 1.



5. Push the power connector into the power socket of HD as shown. The power cable is designed to go in one way, so you shouldn't have any problems.



6. Secure the Hard Disk with the screws we provided.
7. Push the Hard disk and HD holder back into the box and secure it with the two screws.

Chapter 3 Setup Wizard

The Setup Wizard guides you to finish the initial installation of NAS-1101, and the basic configurations for Network. Please follow the steps as below.

Note: If you have run the Setup Wizard before and for some reason you need to run the Wizard again, please delete the previously created shortcuts first.

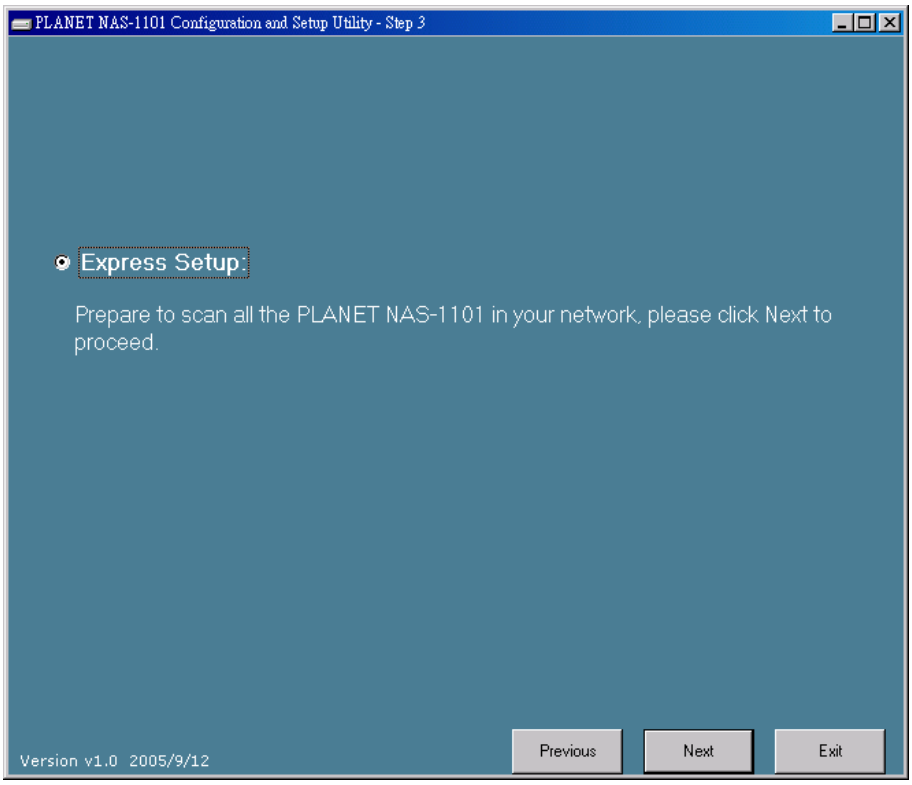
1. Insert the CD-ROM into the CD-ROM drive to initiate the autorun program. Once completed a menu screen will appear.
2. Click on “Setup Wizard” hyper link to initiate the program. If the menu screen is not shown, you can click the “Start” button and choose “Run”. When the box appears, enter “E:\Utility\setup.exe” (Suppose “E” is your CD-ROM drive). You will see the Welcome screen as below. Please click “Next” to continue.

3. Plug the circle end of power adapter firmly into the rear panel of NAS-1101, and the other end into a power outlet. Press the Power button on NAS-1101 and make sure Power LED is light on.

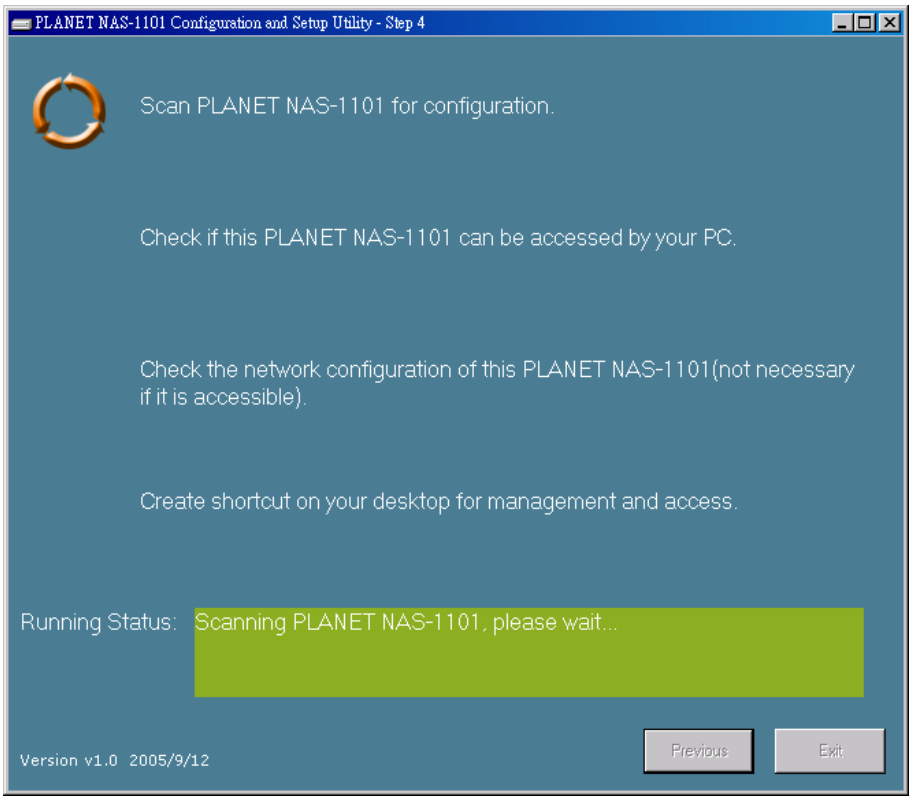
Note: ONLY use the power adapter supplied with the NAS-1101. Otherwise, the product may be damaged.

4. Connect NAS-1101 to your switch or hub and make sure the LNK/ACT LED is light on.

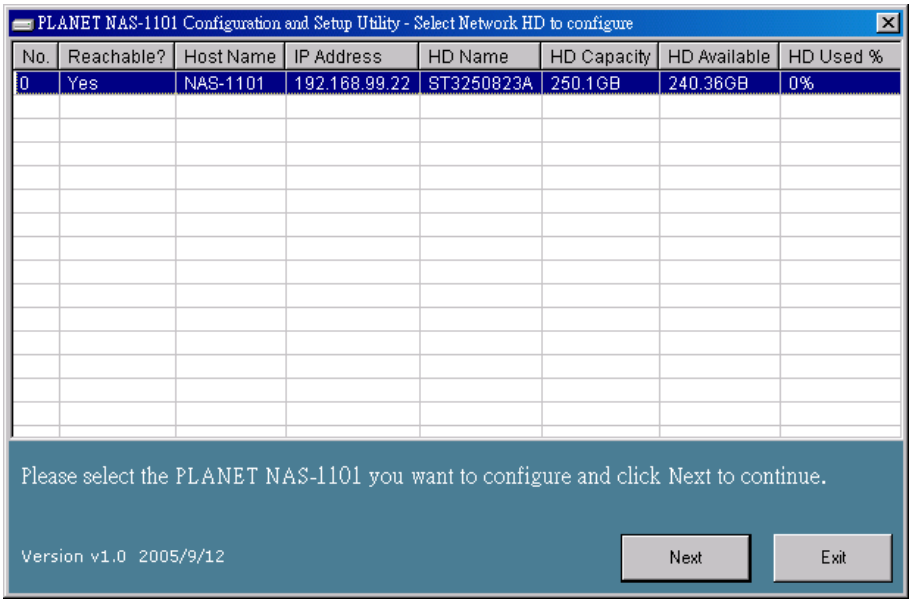
5. Press “Next” to start the scan.



6. The Setup Wizard will scan available NAS-1101 in your network.

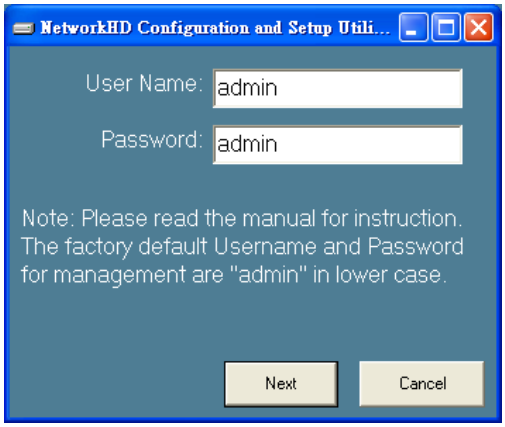


7. The screen will show you the available NAS-1101. Please select the device you want to setup and click “Next” to continue.

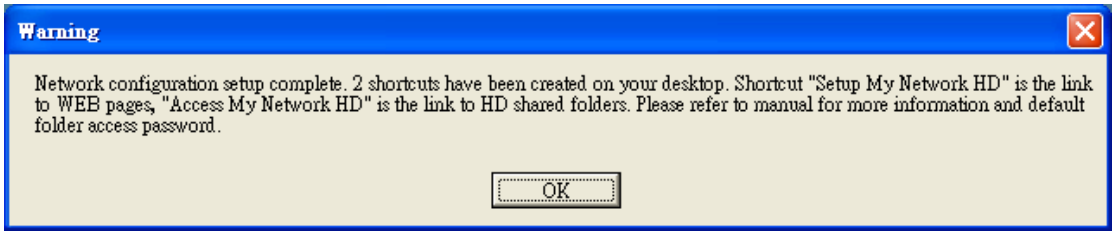


Note: There will be two status of the “Reachable?” field.		
Reachable	Status	Action
Yes	NAS-1101 network setting is compatible with your LAN.	Creating two shortcuts to access and setup the NAS-1101.
No	NAS-1101 network setting is not compatible with your LAN.	Set a new IP address to NAS-1101 and creating two shortcuts to access and setup the NAS-1101.

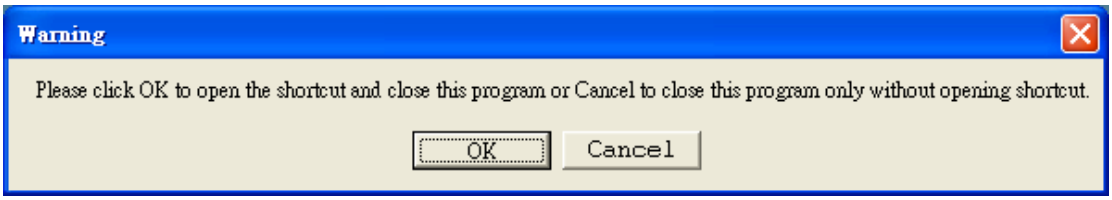
8. If the “Reachable” option is “No”, you will see this screen. Please enter the NAS-1101 administrator user name and password and click “Next”. The default username and password are both “admin”.



9. The NAS-1101 installation is completed. This dialog box prompts you that setup wizard will add two shortcuts on you desktop, you can configure more advance settings by click those shortcuts. Please press “OK”.



10. Please click “OK” to open the shortcut or “Cancel” to finish the setup wizard without opening shortcut.



11. You will find two shortcuts on your desktop.

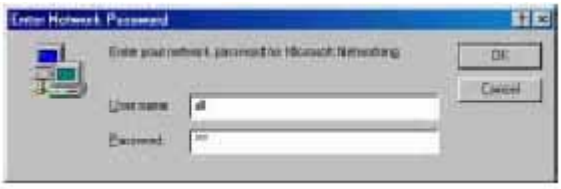
You can start to use NAS-1101 or setup further settings by clicking on the respective buttons.

Note 1: the above two shortcuts are created according to current IP address of NAS-1101. If you change the IP of NAS-1101 afterward, the previously created shortcuts are useless. You must run the Setup Wizard again to create new shortcuts.

Note 2: the Setup Wizard will detect your HD content, but only for the first partition. It is recommended that do not partition the HD.

Note 3: if an unformatted hard disk or no hard disk is installed, users will not be able to access the storage space with following steps. However, you can still proceed with the configuration procedures described in Chapter 4.

To use the storage space of NAS-1101, you can double click on the “Access My Network HD - NAS-1101” icon. A dialog box will pop up and ask for username/password.



There are three pre-defined accounts available:

all: able to read and write all folders in NAS-1101

power: able to read and write the folder named “share” only

guest: able to read the folder named “share” only

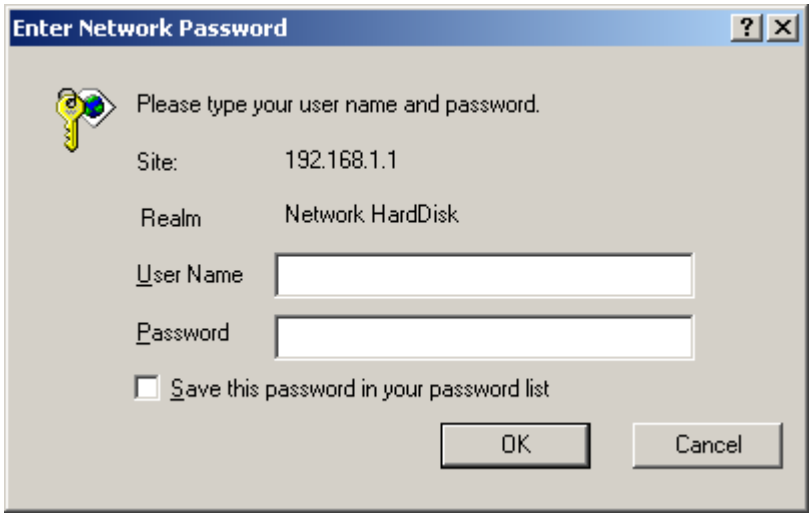
The passwords of the above accounts are identical with the account names. For example, the password for account “all” is “all”.

Note: As default, the “Share” folder is created automatically in the NAS-1101 and can be accessed by any user. Users that would like to use another set of username/ password after getting access to any folder must log off your operation system and log on again.

For Windows 95, 98, 98SE users, you should add a new user with the username of your operation system.

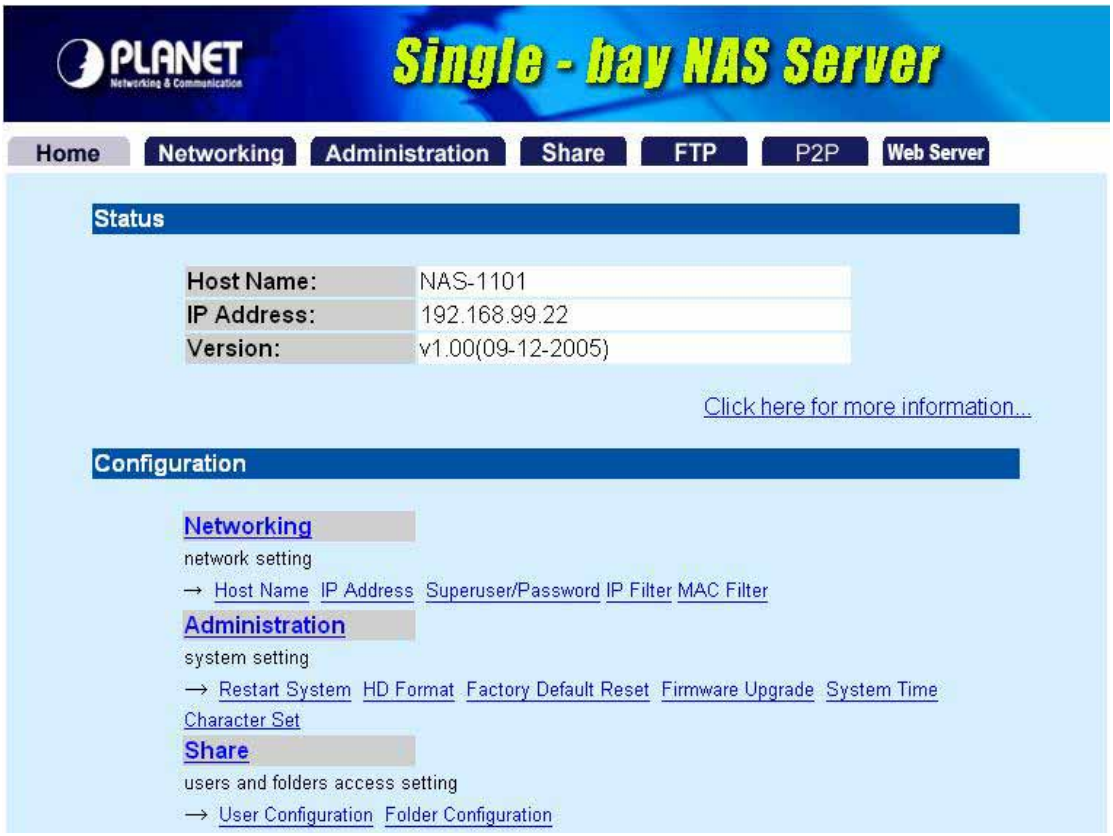
Chapter 4 Configuration

The NAS-1101 provides a web-based configuration interface and you can simply access it by double click on the “Setup My PLANET NAS-1101” icon on desktop. A dialog box will pop up and ask for username/password. The default user name and password are both “admin”.



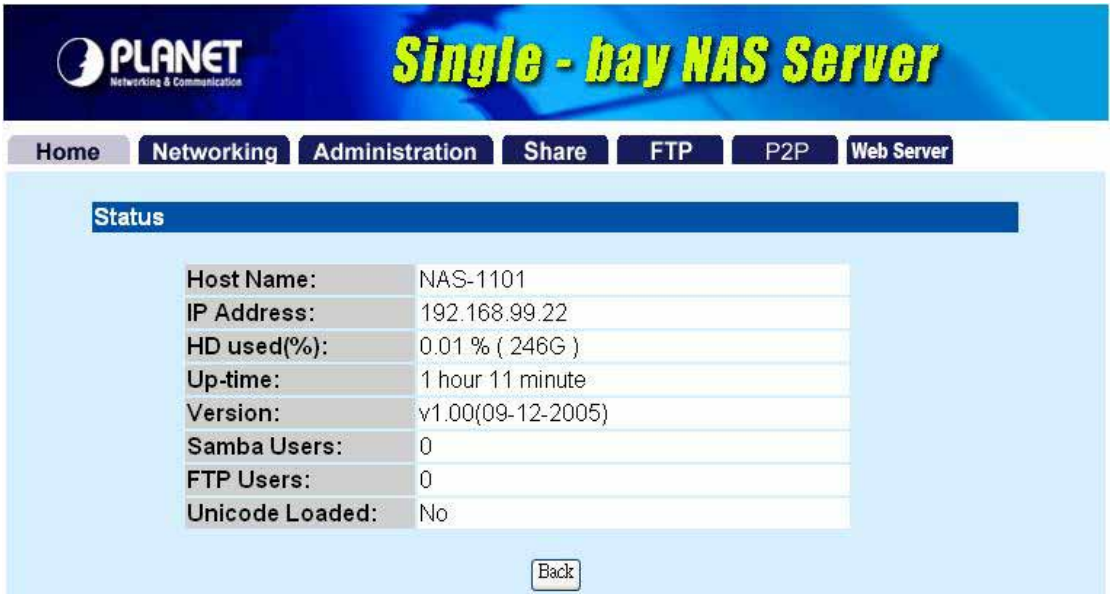
4.1 Home

On this screen, you can see the general information of your NAS-1101 including Host Name, IP address, and Firmware Version. You can also access other configuration screens here.



Options	Description
Status	
Host Name	The identification of the NAS-1101 showing on the “My Network Places”.
IP Address	IP Address of this NAS-1101.
Version	Firmware version.

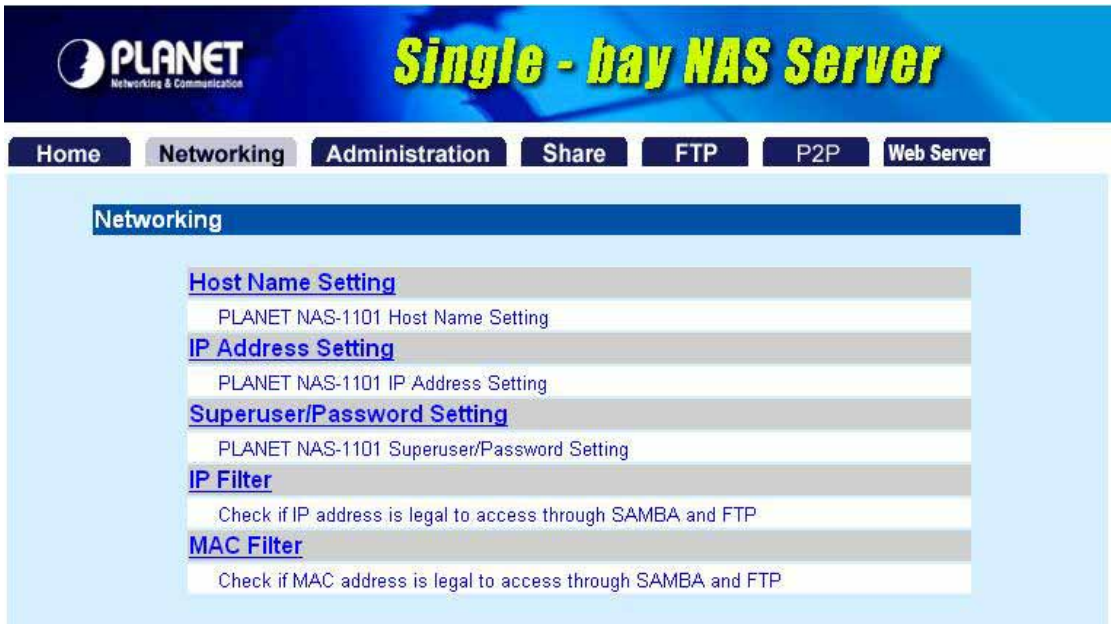
If you click on the “Click here for more information…” hyper link, the screen will show you the current device status as below.



Options	Description
Host Name	The identification of the NAS-1101 showing on the “My Network Places”.
IP Address	IP Address of this NAS-1101.
HD used (%)	The usage percentage of HDD.
Up-time	The estimate time of system operating period.
Version	Current firmware version.
Samba Users	The number of users who is accessing the NAS-1101 from “My Network Places”. You can have max five online users to access NAS-1101 at the same time.
FTP Users	The number of users who is connected to NAS-1101 by FTP session. You can have max five online users to access NAS-1101 at the same time.
Unicode Loaded	This field indicates the Unicode is loaded or not. For instructions of Unicode installation, please refer to “Character Set” under “Administration” category.

4.2 Networking

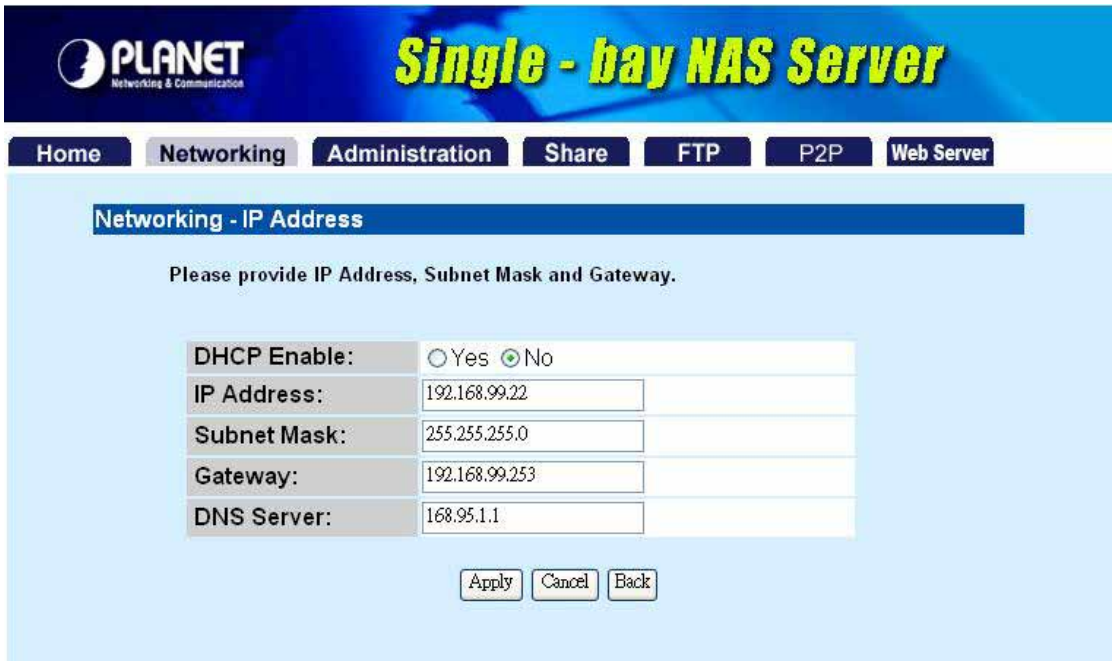
In this category, you can setup the networking configurations of NAS-1101.



4.2.1 Host Name Setting

Parameters	Description
Host Name	Identification of NAS-1101 represents on “My Network Places”.
Work Group	The name of the workgroup which NAS-1101 is located.
Description	Brief description of the NAS-1101.

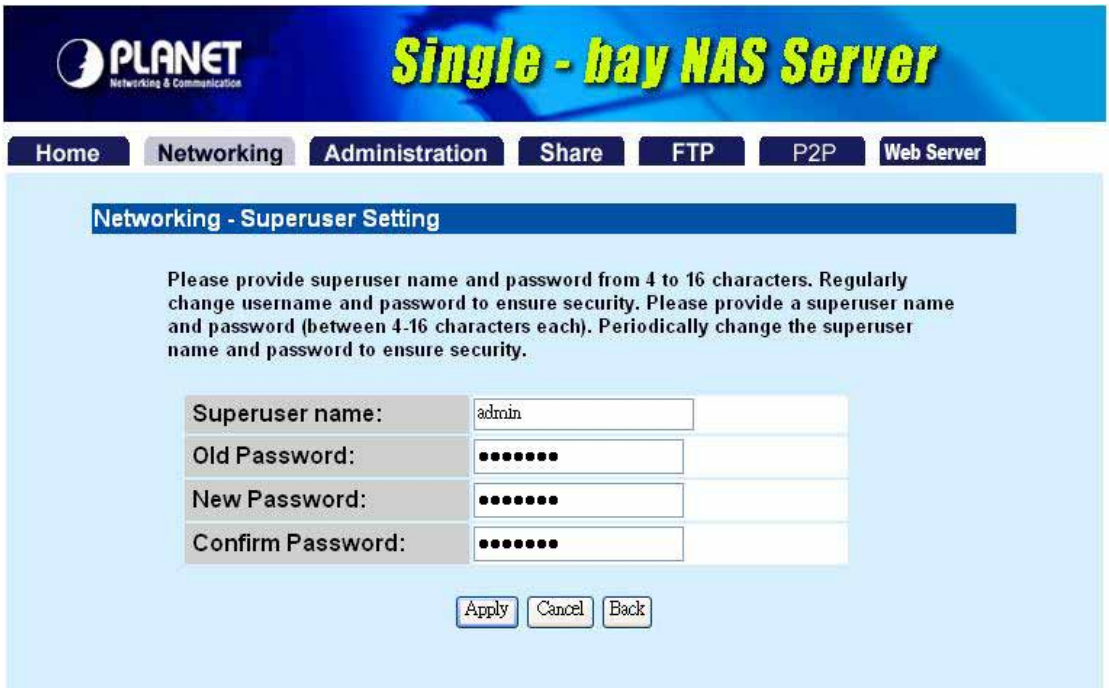
4.2.2 IP Address Setting



Parameters	Description
DHCP Enable	Enable DHCP for NAS-1101 obtaining network settings automatically. However, you must ensure there is a valid DHCP server in LAN. Disable DHCP, then the following settings must be manually configured.
IP Address	Designate the NAS-1101's IP Address. This IP Address should be unique in your network. The default IP Address is **192.168.1.1**.
Subnet Mask	Specify a Subnet Mask for your LAN segment. The default value is **255.255.255.0**.
Gateway	Specify the gateway IP in your network.
DNS Server	This is the ISP's DNS server IP address that they gave you; or you can specify your own preferred DNS server IP address.

4.2.3 Superuser/Password Setting

This page allows you to change the username and password which are used to access the web interface of NAS-1101. Please do not confuse this screen with the following "Share" screen. The user account created in "Share" screen is for access the storage space of NAS-1101. You should not grant web access privilege to common users.



Parameters	Description
Superuser name	The administrative user name to access the web interface of NAS-1101.
Old Password	Enter the old password here.
New Password	Enter the new password here.
Confirm Password	Please enter the new password here again to confirm.

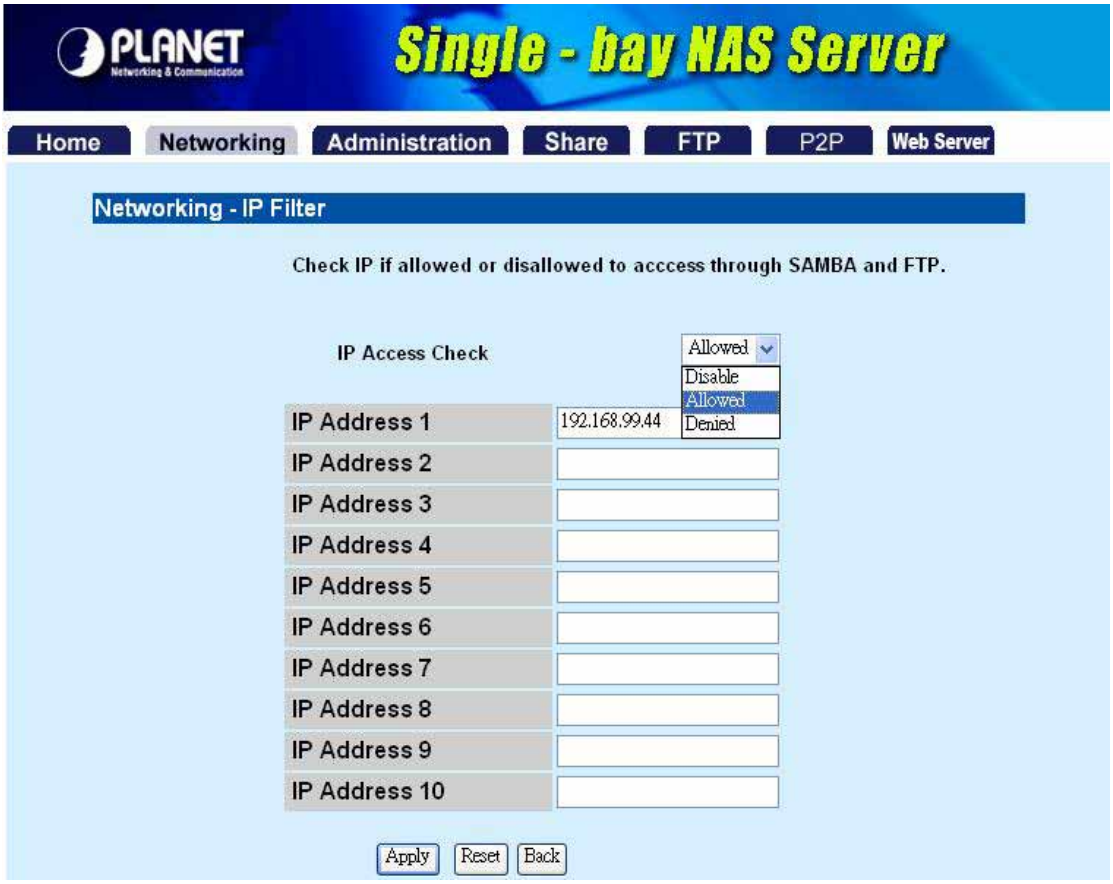
4.2.4 IP Filter

The IP Filter feature provides access management by IP addresses. There are three modes for configuration:

Disable: the IP Filter is disabled, and all sessions would be allowed.

Allowed: only the clients with IP addresses configured in the table below can access the NAS-1101.

Denied: the clients with IP addresses configured in the table below are not allowed to access the NAS-1101.



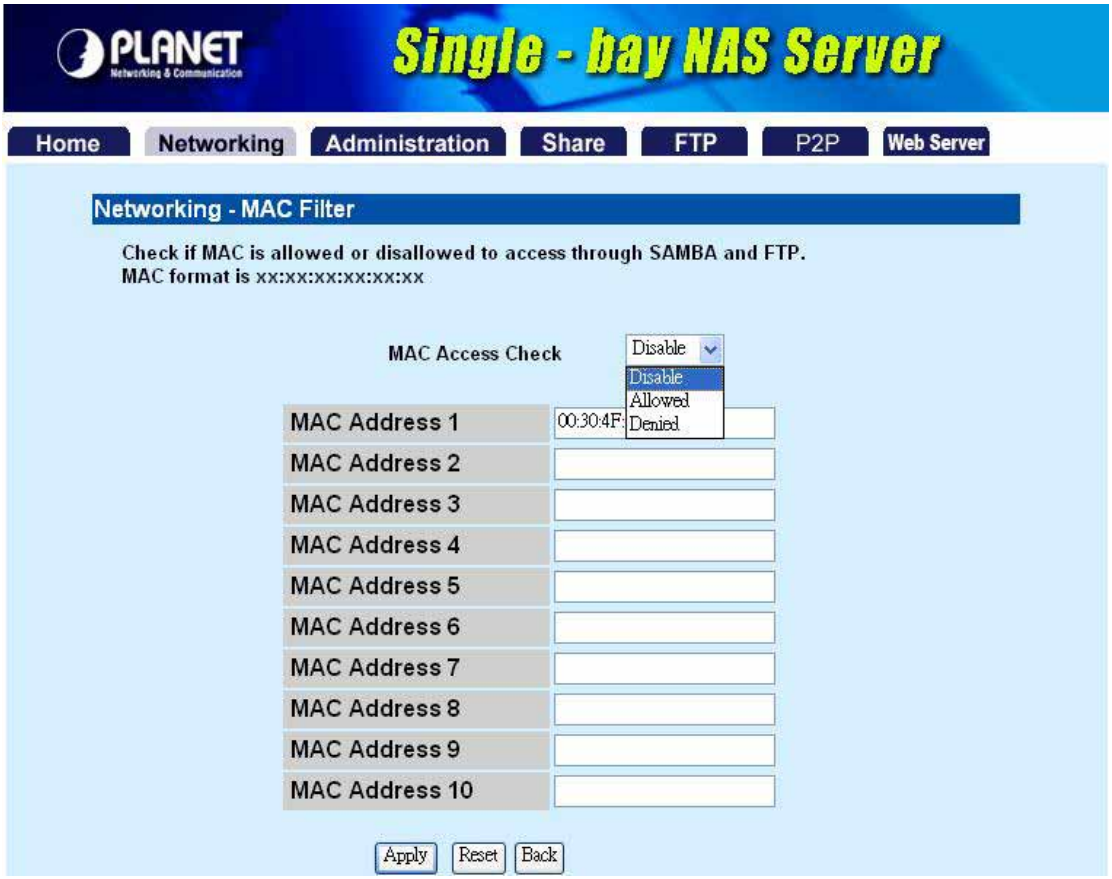
4.2.5 MAC Filter

The MAC Filter feature provides access management by MAC addresses. There are three modes for configuration:

Disable: the MAC Filter is disabled, and all sessions would be allowed.

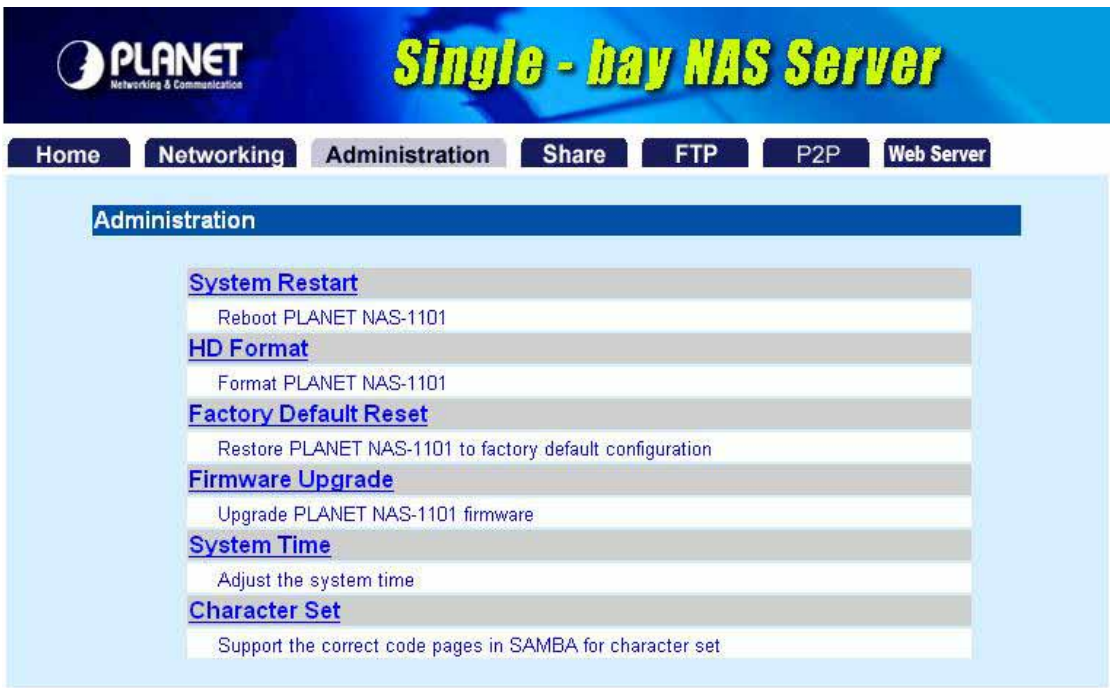
Allowed: only the clients with MAC addresses configured in the table below can access the NAS-1101.

Denied: the clients with MAC addresses configured in the table below are not allowed to access the NAS-1101.



4.3 Administration

In this category, you can manage the NAS-1101 with some useful tools.



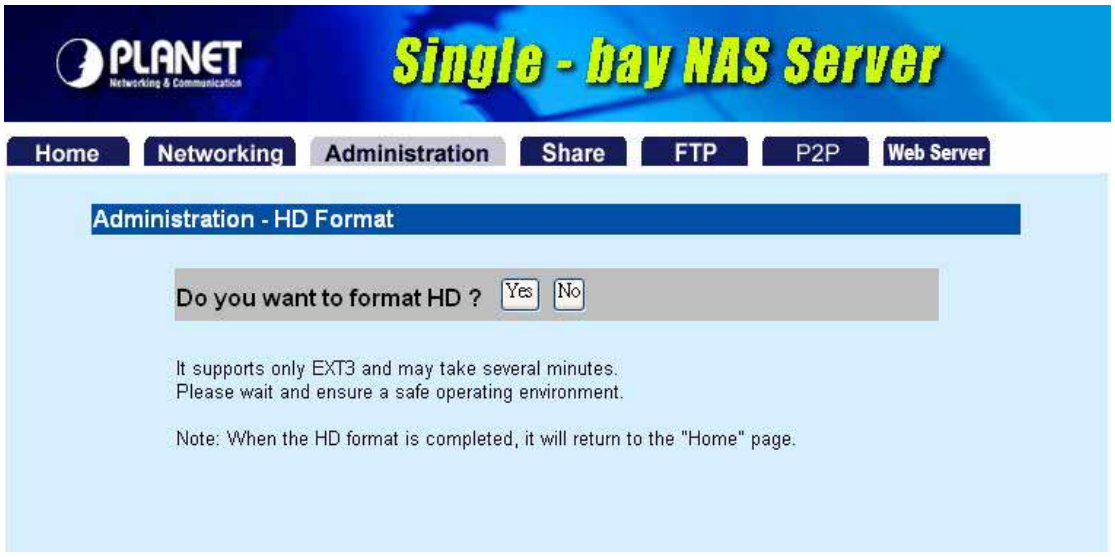
4.3.1 System Restart

Parameters	Description
Do you want to restart this system?	If you want to restart this NAS-1101, please press "**Yes**", or press "**No**" to back to pervious page.

4.3.2 HD Format

When you see this massage "**HD Unable to use**" showing on the "**HD used (%)",** it means either your hard disk is a brand new unformatted one or its format is not EXT3. You have to format this hard disk or replace it with another one with EXT3 format.

Caution: All partitions on your HD will be format and all your DATA will be erased.



Parameters	Description
Do you want to format HD?	If you want to format your HD, please press "**Yes**", or press "**No**" to back to previous page.

Note: Please wait until the format process completed. Do not power off the system or close the browser.

After the format process complete, **the system will restart automatically**.

4.3.3 Factory Default Reset

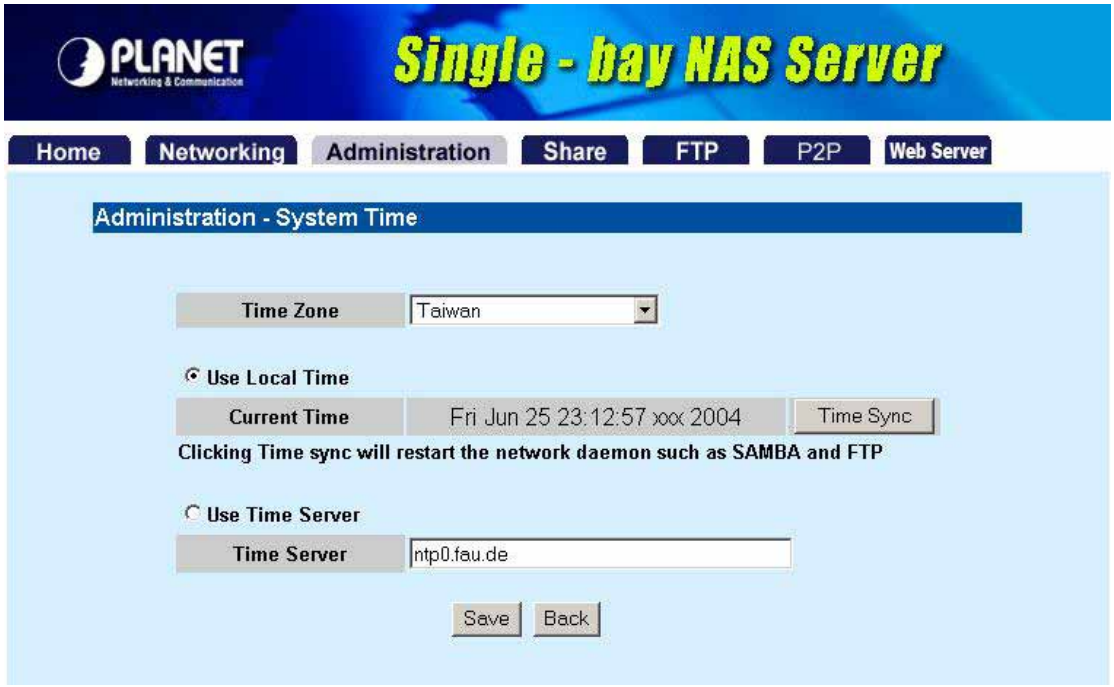
Parameters	Description
Do you want to reset to factory default?	If you want to reset NAS-1101 back to factory default settings. Please press "**Yes**", or press "**No**" to back to previous page.

Note: besides software reset, you can also press the DEFAULT button on the rear panel of NAS-1101 for 10 second. And then wait for a while for NAS-1101 to restart with factory default settings.

4.3.4 Firmware Upgrade

Parameters	Description
Firmware upgrade	If you have the latest firmware of NAS-1101, you may enter the firmware path into this field or press "**Browse…**" to find out the firmware location and press "**Apply**" to upgrade. If the firmware location is wrong, please press "**Reset**" to enter again. If you don't want to upgrade, press "**Back**" to previous page.

4.3.5 System Time



Parameters	Description
Time Zone	Please select the time zone of your country
Use Local Time	Press 'Time Sync" button, the NAS-1101 will synchronize its time with your PC. Before this procedure, please make sure the time on your PC is also correct.
Use Time Server	If this NAS-1101 is connected to Internet already, you may select this option to set it check the system time with Internet time server. You can change the time server address or keep use the default setting and click "Save" button to apply.

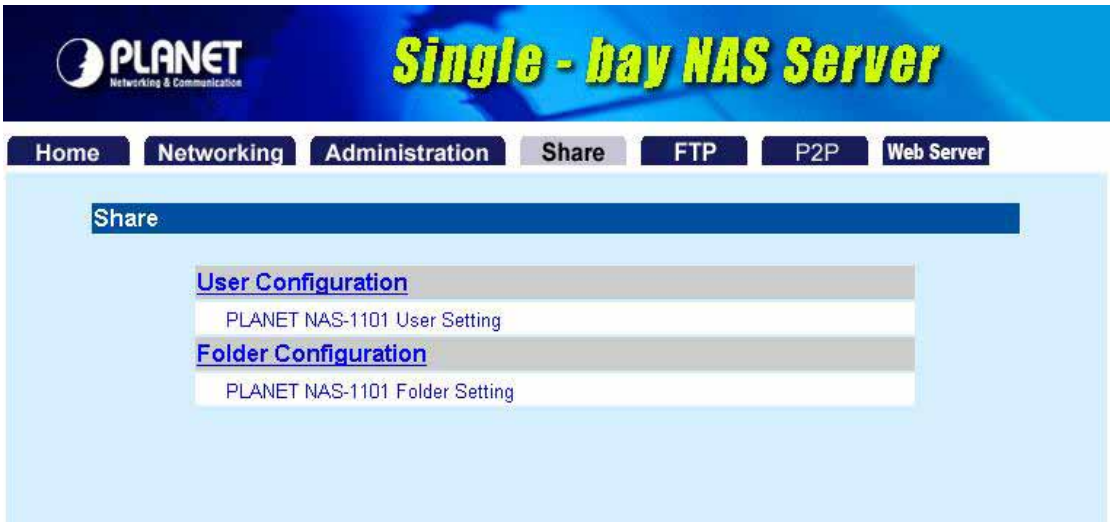
4.3.6 Character Set

Unicode is work for being compatible with most fonts around the world thus prevents errors from fonts difference. To install Unicode, insert the CD-ROM we provide, click the "Browse" icon, click on your CD-ROM drive, open the folder "Unicode" and select the file "ntx_chset.h", click open to browse the file then click Save to enable.

Note: Please don't delete or do any modification on the file.

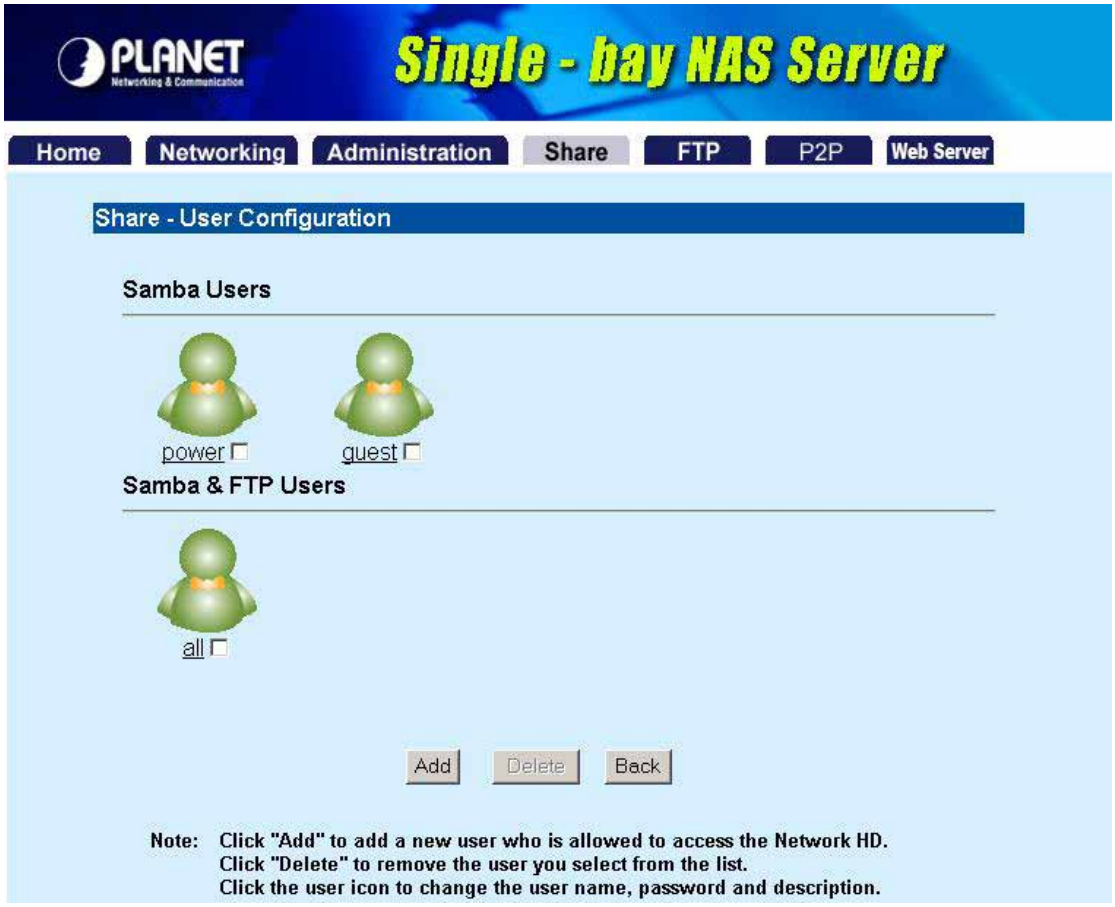
4.4 Share

In this option, you can set the user and folder configuration for user login and access data.



4.4.1 User Configuration

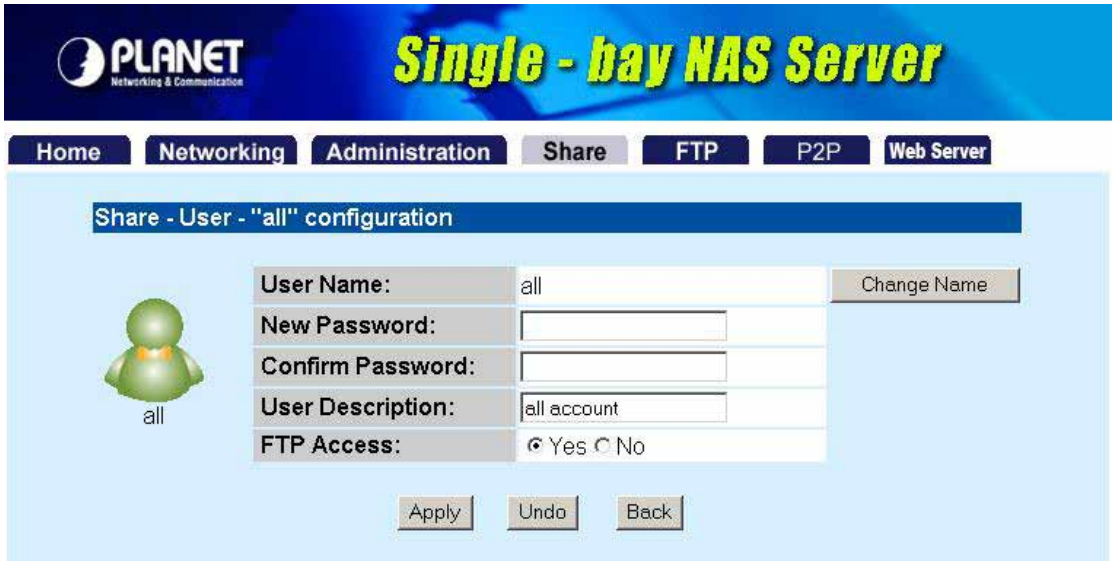
In this category, you can Add/Delete/Modify the user account. Before operate, please make sure the installed HD was formatted. If the installed HD does not format yet, the operation in this page may be wrong.



4.4.1.1 Modify Users

If you want to modify the existing user, please click the user icon in Basic User or Advanced User field.

Then you will see the screen below.



Parameters	Description
User Name	For existing user, you may click “Change Name” button to change the user name.
New Password	If you want to set a new password of this user, please enter the new password here.

Confirm Password	Please enter the new password here again.
User Description	Please enter a simple description of this user.
FTP Access	Allow this user to access NAS-1101 via FTP protocol or not.

4.4.1.2 Add User

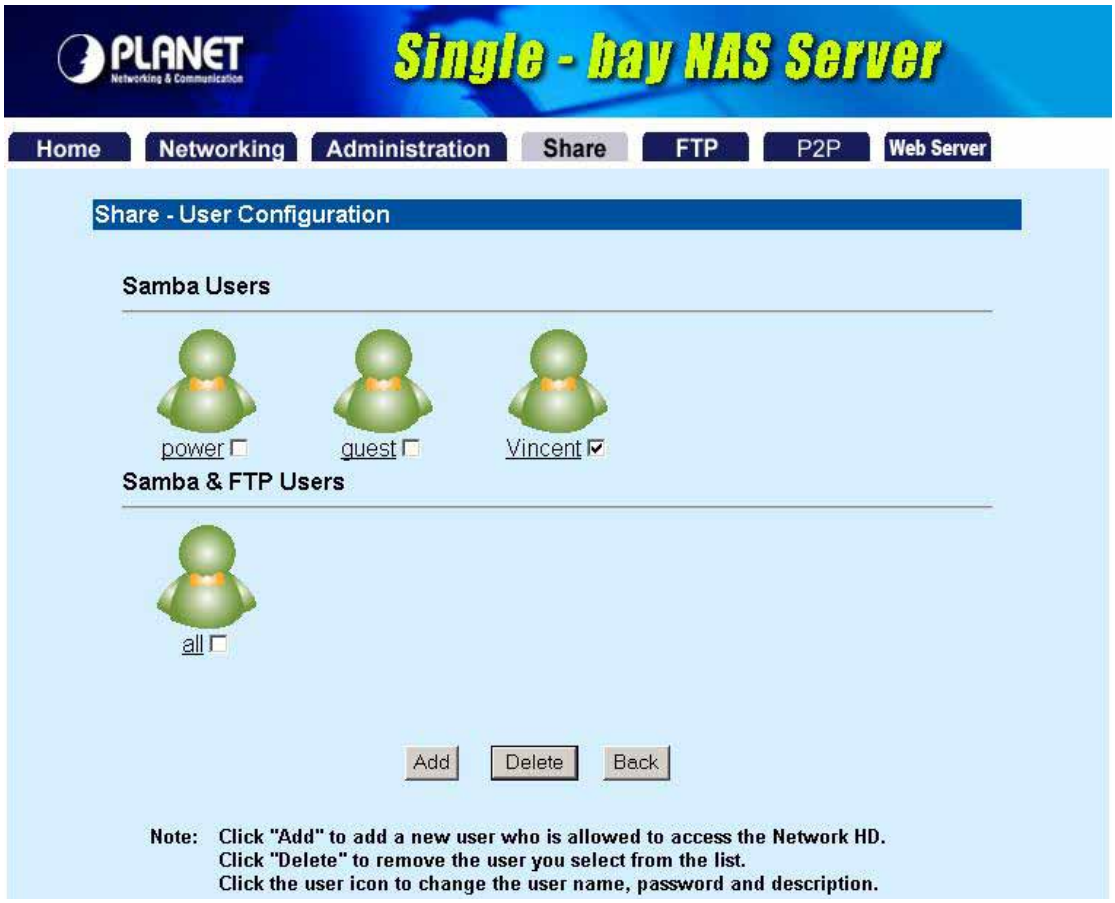
If you want to add a new user, please click the “Add” button on the screen in section 4.4. Then you can see the screen below for adding new user.

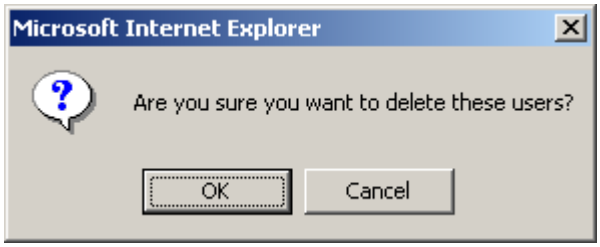
Parameters	Description
User Name	Please enter the name for this user. .
New Password	Please enter a password of this user.
Confirm Password	Please enter the password here again.
User Description	Please enter a simple description of this user.
FTP Access	Allow this user to access NAS-1101 via FTP protocol or not.
Apply	After finish the user configuration, please press this button. You will see a screen to prompt you this user is a limited user for all folder. You may click “Click Here!” hyper link and refer to section 4.4.2 to configure the folder configuration for this user.

Undo	When you want to clear the settings, you can press this button.
Back	Press this button for back to previous page.

4.4.1.3 Delete User

If you want to delete the user account, please click the check box under the user name in the User Configuration screen, you may see the "**Delete**" button become available. When you press "**Delete**" button, you may see a dialog box to prompt you the user will be deleted, press "Yes" to delete this user. If you want to delete two or more users, you can click the check box of those users to delete them at the same time.



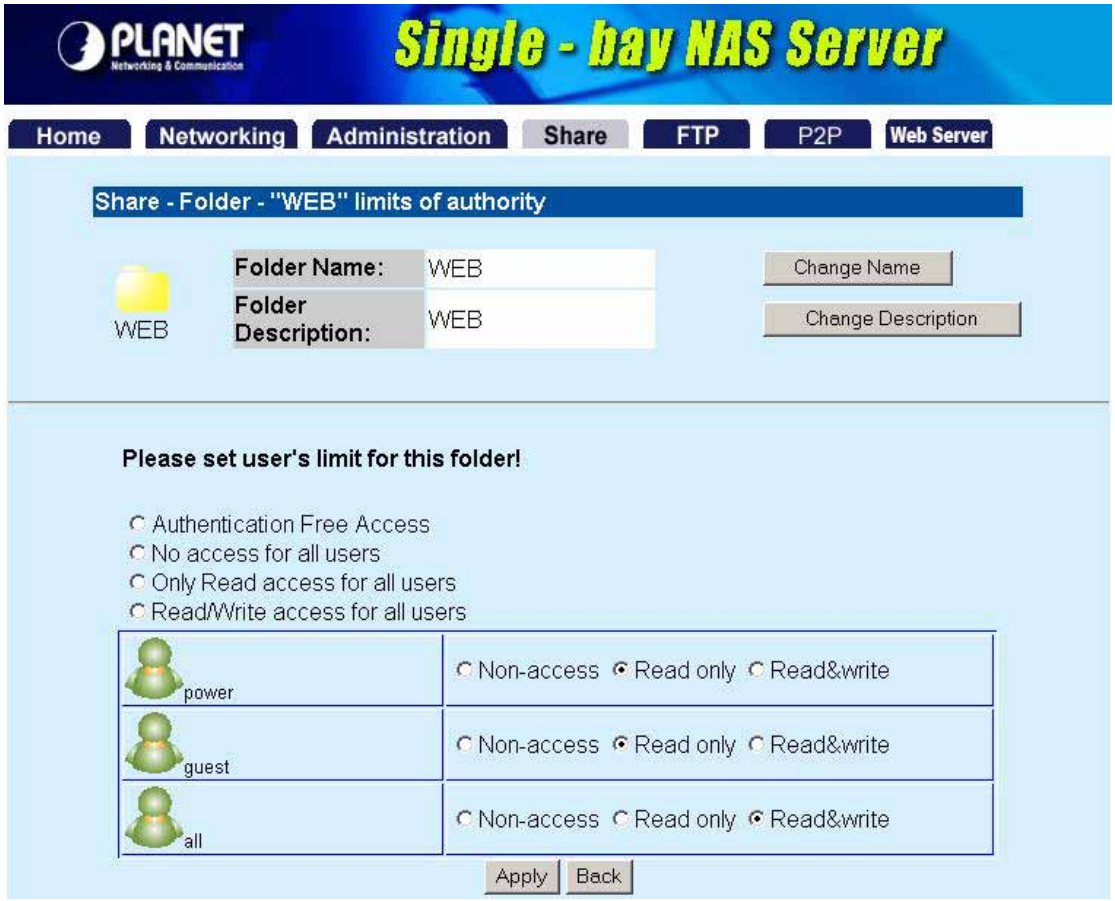


4.4.2 Folder Configuration

In this category, you can Add/Delete/Modify the shared folder.

4.4.2.1 Modify Folder

If you want to modify the folder configuration, please click the folder icon. Then you will see the screen below.



Parameters	Description
Change Name	If you want to change the folder name, please press this button. After press this **button**, you will see the screen below. Please press "Apply" to save the settings.

NOTE: The default folder "**Share**" can't be changed.

Change Description	If you want to change the folder description, please press this button. Please press "**Apply**" to save the settings.

Please set user's limit for this folder	You may set the privilege for each user or set the same setting to all users by selecting upper options.
Apply	Press this button to save the changes.
Undo	Click to clear the current settings.
Back	Press to back to pervious page.

4.4.2.2 Add Folder

If you want to add a new share folder, you may press the "Add" button in the screen above. Then you will see this Add Folder screen.

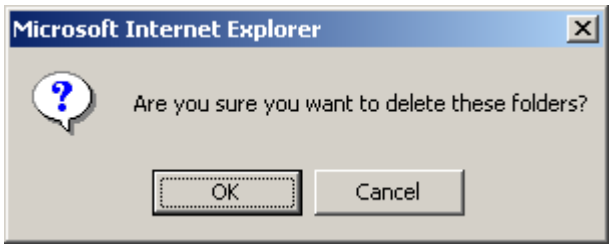
Parameters	Description
Folder Name	Please set a name to this share folder. The folder name will be shown when the user access NAS-1101.
Folder Description	Please set a simple description for this folder.
Apply	Please press this button to create this new folder.
Undo	Click to clear the current settings.
Back	Press to back to pervious page.

After press "**Apply**", you may see this screen to ask you to define the user accessibility.

Parameters	Description
Change Name	If you want to change the folder name, please press this button.
Change Description	If you want to change the folder description, please press this button.
Please set user's limit for this folder	You may set the privilege for each user or set the same setting to all users by selecting upper options.
Apply	Please press this button to create this new folder.
Back	Press to back to pervious page.

4.4.2.3 Delete Folder

Click the check box in front of the folder name, then the "**Delete**" button will become available. Please click this button to delete the folder you selected. You will see a dialog box appear to prompt the folder will be deleted, press "**OK**" to continue.

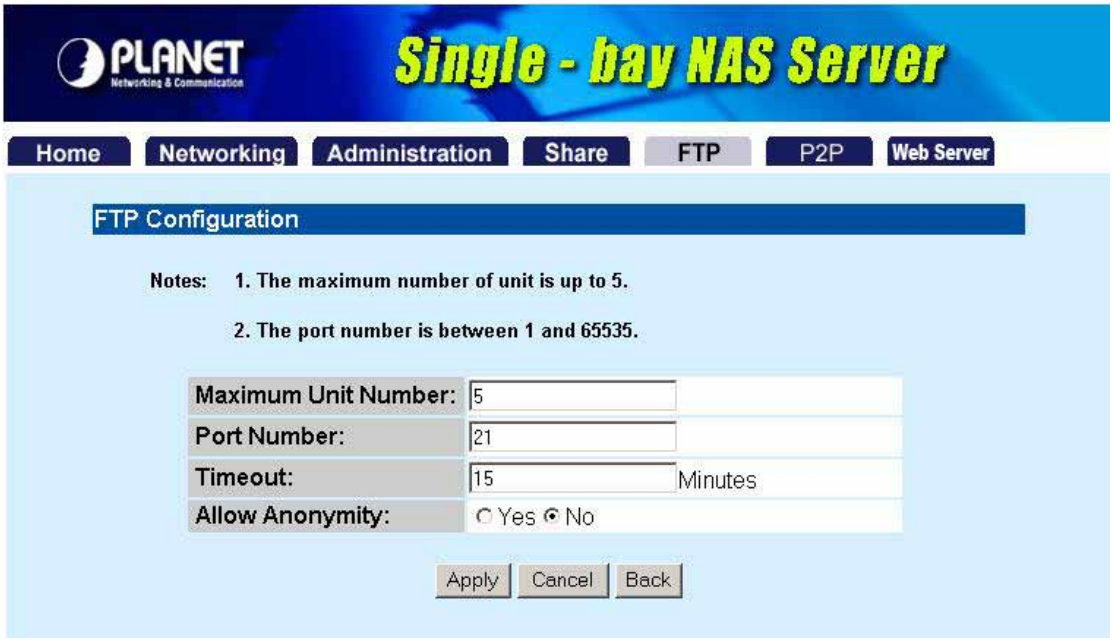


4.5 FTP

NAS-1101 provides a FTP server for remote access from Internet.

4.5.1 FTP Configuration

To setup this configuration such as user limitation, sever port number, length for time out and anonymous user restriction, click FTP Configuration.



Parameters	Description
Maximum Unit Number	Please enter the member number. Maximum member number is 5.
Port Number	Enter the FTP Port number. Default port number is 21. If you want to disable FTP function, please leave it blank.
Time Out	Enter the time length you want. Default is 15 minutes. If you leave it blank, the time out function will be disabled.
Allow Anonymity	Choose "**Yes**" to enable or "**No**" to disable anonymous user login.
Apply	Please click this button to save the settings.
Cancel	Discard the changes.
Back	Press to back to pervious page.

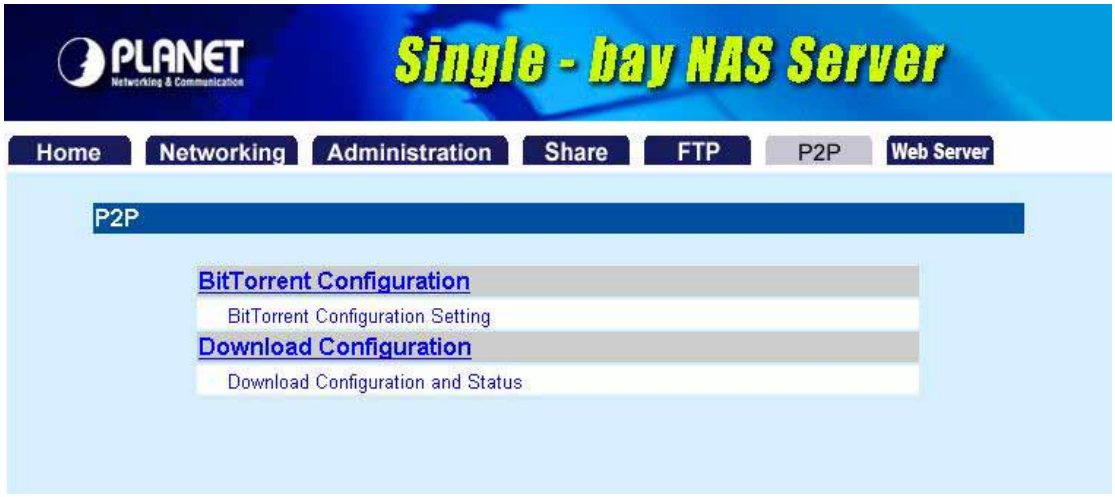
4.6 P2P

NAS-1101 has an embedded BitTorrent client for Internet peer-to-peer downloading. To start a download session, you must:

1. Get a Torrent File: The BitTorrent download is triggered by Torrent files (formatted as "**XXX.torrent**").
2. Save those Torrent files in a folder within the NAS-1101. For example, create a folder which named "P2P" in the device. Place those Torrent files in the P2P folder.
3. Create a folder in the NAS-1101 to place the data you are going to download. Please note that the folder should be within the folder that contains the Torrent files. For example, create a folder named "BT" in the "P2P" folder".
4. Start downloading. For detail configuration, please find the instructions below.

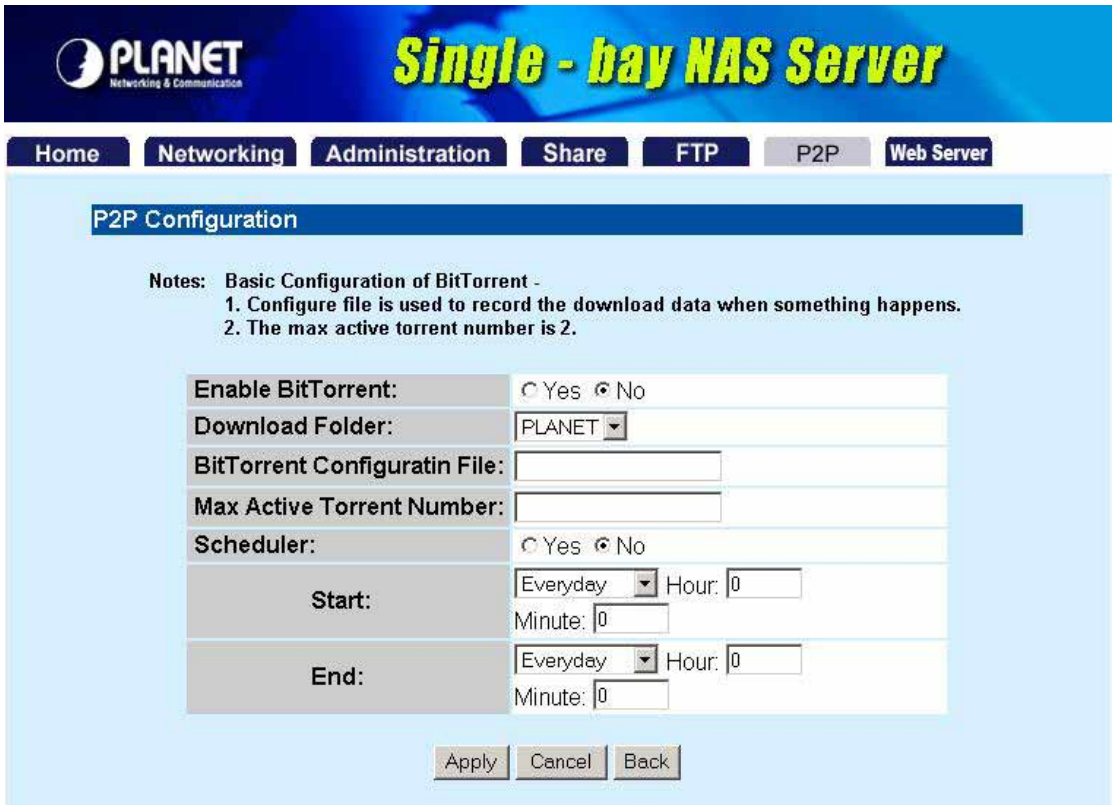
Note:
All users of this device are warned against illegal downloading of copyrighted materials. The P2P

embedded functionality is provided for downloading authorized files only. Downloading or distribution of unauthorized materials may result in severe civil and criminal penalty. Users of this device are subject to the restrictions of the copyright laws and should accept all the consequences.



4.6.1 BitTorrent Configuration

The configuration of BitTorrent can be setup here, fill in the settings in each blank then press apply to activate.

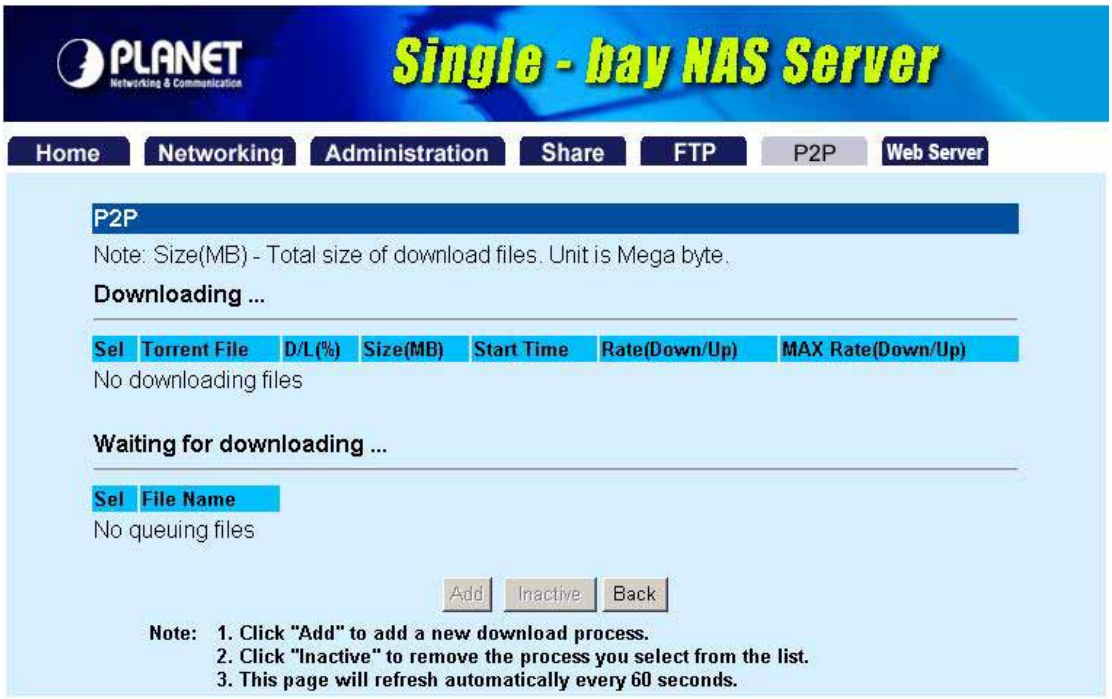


Parameters	Description
Enable BitTorrent	Choose Yes to enable BT download.
Download Folder	Choose the folder that contains the subfolder where you place the Torrent files.

	Note: To download successfully, please make sure that the torrent files and the folder for restoring downloaded data to be in the same folder. (For example, if you place those Torrent files in folder “P2P”, the folder “BT” for placing downloaded data should be also in the folder “P2P”.
BitTorrent Configuration File	You can specify any name for the file. The file is for recording the download information, which helps to resume interrupted download. **Note:** Please don’t delete the file after downloading.
Max Active Torrent Number	To set the numbers of Torrent files to be activated at the same time. A number within 10 is allowed.
Scheduler	Click Yes to enable the scheduler. The scheduler is provided for users to set up the start/end time of BitTorrent functionality.
Start / End	Set the time to start and end BitTorrent download/upload. (For example, you can configure the scheduler to start by “Everyday, Hour: 23, Minute: 0” and end by “Everyday, Hour: 6, Minute:0” to process BitTorrent download/upload from 11:00PM to 6:00AM)
Apply	Please click this button to save the settings.
Cancel	Discard the changes.
Back	Press to back to pervious page.

4.6.2 Download Configuration

This page is provided for users to enact a download task and also shows the downloading information.



Parameters	Description
Sel	The check box for user to select the specified task.

Torrent File	Name and status hyperlink for each torrent file.
D/L (%)	The percentage of downloaded file.
Size (MB)	The data size.
Start Time	The time that download starts.
Rate (Down/Up)	The download/upload speed.
Max Rate (Down/Up)	The maximum download/upload speed.

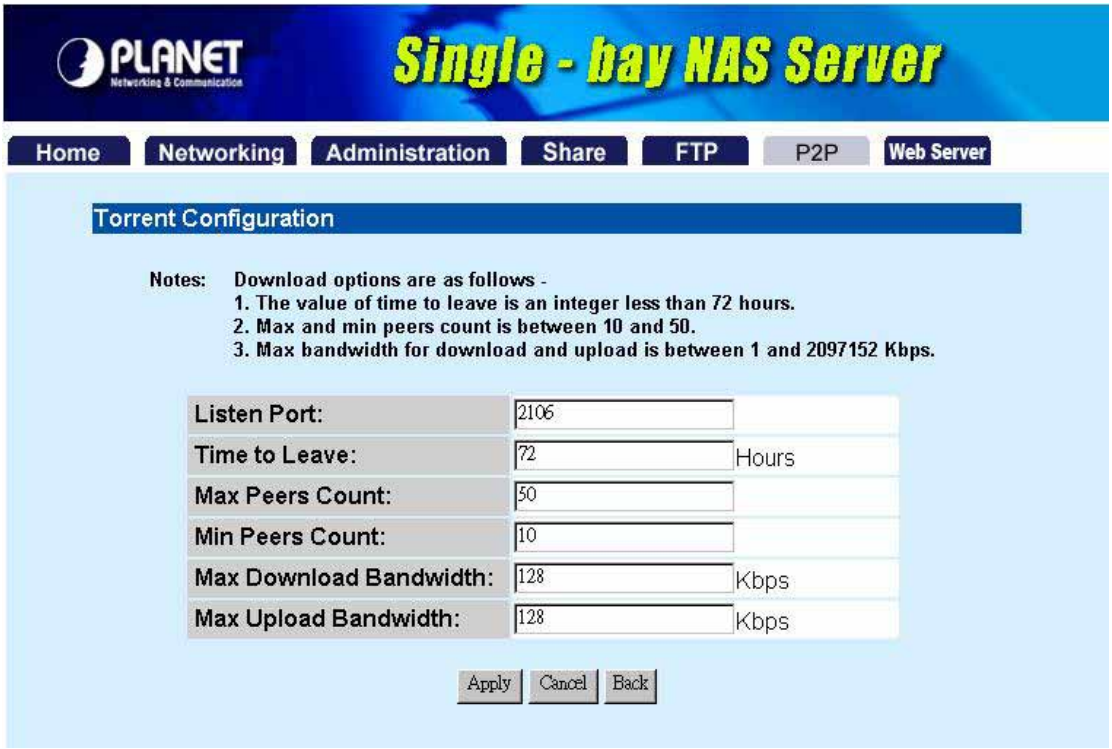
4.6.2.1 Add a Download Task

1. To add a new download task, place Torrent files in the folder you specified as the download folder. Click Add to proceed.

2. Select the files to download, and click Next.

3. Specify the folder for placing downloaded data and click Next. Please make sure the folder is located in the folder which you stored the Torrent files.

4. Check the download parameters and click Apply to complete the procedures.

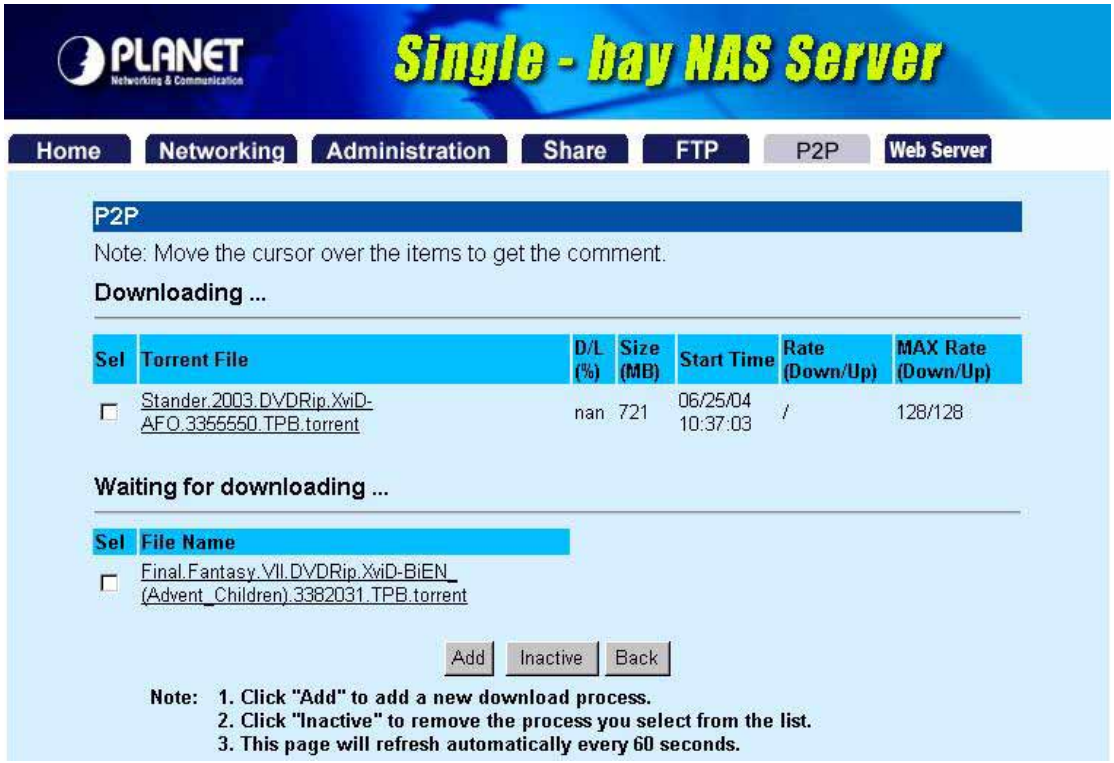


Parameters	Description
Listen Port	The port number of the P2P software.
Time to Leave	The allowed time to process a download task. The task will be terminated if the time expires.
Max Peers Count	Setup the maximum peers when proceeding upload/download.
Min Peers Count	Setup the minimum peers when proceeding upload/download.
Max Download Bandwidth	The maximum bandwidth used for download tasks.

Max Upload Bandwidth The maximum bandwidth used for upload tasks.

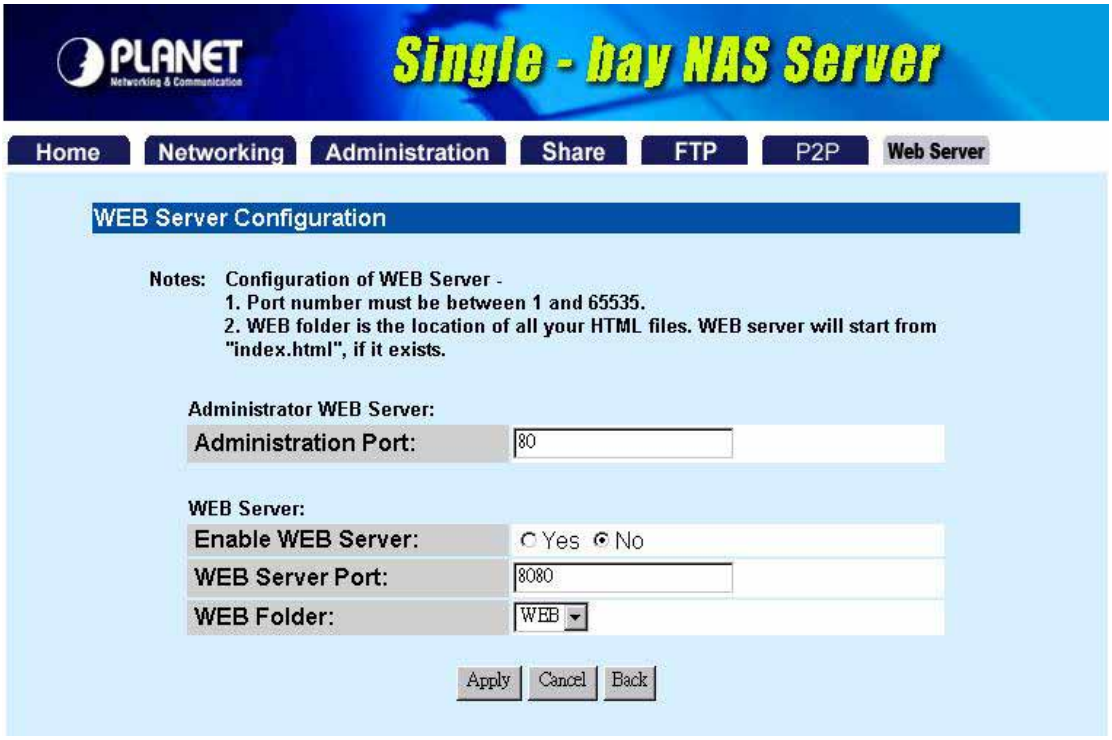
5. The proceeding task and the relative information will be shown on the screen below. You can click on the hyperlink of the Torrent file name to check the properties of the task.

   If you want to terminate a download task, select the task and click the Inactive button. The specified process will be removed immediately.



4.7 Web Server

NAS-1101 provides a simple web server for user to construct a personal website. This website accepts HTML files only, it does not support ASP or JavaScript.



Parameters	Description
Administration Port	The Administration port is the port for accessing the Web-based management interface. The default setting is 80.
Enable WEB Server	The WEB server allows users to construct a Website by HTML format. Select Yes to activate the web server.
WEB Server Port	Specify the port number of this personal website. It ranges from 1-65535. Please note do not use the same port number as configured in Administration Port.
WEB Folder	Specify the folder where you place the HTML files.

To Access the Personal Web Site

The address for linking the personal web site is the IP address of the NAS-1101 with the port number added after by a colon. For example, use 192.168.1.1:8080 if the IP address of the NAS-1101 is 192.168.1.1 and the port number of the web server is configured as 8080.

Note:

For WAN users to get access to the FTP or WEB server, you should link the NAS-1101 to a router with appropriate configuration. Please make sure that:

1. The NAT functionality is enabled in your router.

2. In the port-mapping session, the “Internal Host IP” should be configured as the IP address of this NAS-1101 and the value of “Port” should be correspond to the port number of the WEB server or FTP server you configured.

3. Before allowing the NAS-1101 to communicate with Internet, we strongly recommend users to add a

Firewall device to secure your network from being invading.

Chapter 5 Troubleshooting

Q1. How to shut down the NAS-1101 properly?

Ans: To shut down the System properly, press the POWER button on the front panel for two seconds until Power LED blinks then go off.

Q2. The Setup Wizard can't configure My Network setting.

Ans:

- ◆ Make sure that your RJ-45 cable is connected to the NAS-1101 and your Switch/Hub.
- ◆ Check the LNK/ACT LED of NAS-1101, and make sure that it's light on.
- ◆ Check the power of the NAS-1101, Switch/Hub and make sure that they are power on.
- ◆ Check your PC's IP address, make sure that it has a static IP or connects with a router with DHCP Client.
- ◆ Use DEFAULT button to restore NAS-1101 to factory default and reboot.

Q3. The NAS-1101 can't find my HD and the Home page of Web-based UI display that the "HD unable to use.

Ans: There are some possibilities,

- ◆ The HD is broken. Please change another HD
- ◆ The HD jumper is not in Master mode. Your HD jumper should be set to Master. Different Hard Disk has different jumper settings; please refer to your Hard Disk manual for more information.
- ◆ The HD is unformatted. Please format it with our HD Format tool in Administration.
- ◆ The partition format of HD is not EXT3. Please format it with our Format tool in Administration.

Q4. I use NAS-1101 as a Web/FTP server, but the users outside the LAN can't access it.

Ans:

- ◆ Please make sure NAS-1101 is work with a public IP address.
- ◆ To use NAS-1101 as a Web/FTP server without fixed IP or domain name, please setup your DDNS and Port Mapping of router (IP Sharing) first. As for the setting, please refer to the DDNS and Port mapping in your router's Manual.

Q5. I can't access the NAS-1101.

Ans:

- ◆ Check the LNK/ACT LED of NAS-1101, and make sure that it's light on.
- ◆ Make the PC IP address is in the same IP segment of NAS-1101.
- ◆ If there are already 5 users connected to NAS-1101, the system will block other users who want to access. Please check the Samba Users / FTP Users by clicking the "Click here for more

information…” on the Web-based UI.

Q6. I have accessed the HD installed in NAS-1101, but I can’t access to the shared folders.

Ans:

- ◆ NAS-1101 is base on FAT32 file system. Therefore, the size of a single file is limited to no more than 2GB. However, there is an advantage of FAT32 file system. If the NAS-1101 is crashed due to some unexpected reasons, you can remove the hard drive inside and installed it to any Microsoft operating system. The data in the hard drive still can be accessed as long as the HD is healthy.
- ◆ Verify you have the correct username and password.
- ◆ For Windows 95, 98, 98SE users, you should add a new user in NAS-1101 with the username of your operation system. Please get access to the management interface. Add a new user, which use the username the same with your operation system. Get access to the HD and double click a folder. Fill in the password to get access to the folder.
- ◆ If you have accessed to any folder in the HD and would like to use another set of username/ password for different privilege, please log off your operation system and log on again.

Q7. There are random codes appear in the file name.

Ans: The SAMBA mechanism does not support Unicode. If you are using the Samba mechanism (ex, My Network Places or the “Access my NAS-1101” icon) to access the HD, some special characters may not be displayed correctly. This is the limitation of SAMBA.

It is suggested to access the files with special characters via FTP connection. Use English characters can also prevent the issue.