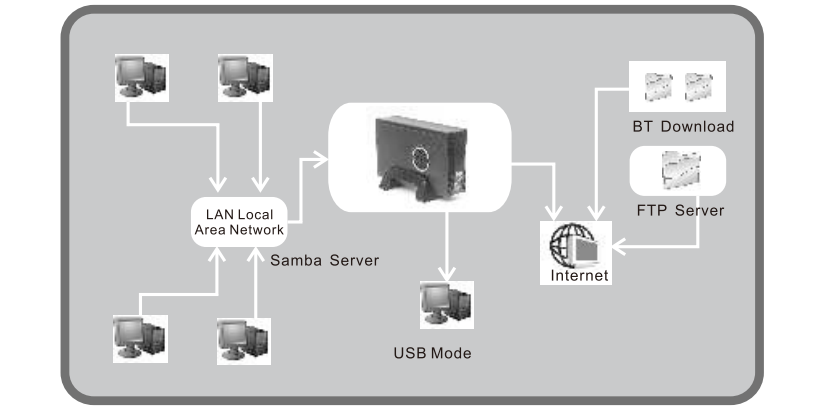
USER MANUAL

3.5" Gigabyte NAS Storage Enclosure

For 3.5" SATA HDD



Model NO: GNSB3AHT

2011@ver1.0

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1. Feature

- Great for creating a custom Network Attached Storage appliance.
- Support PPPoE
- Under Ethernet environment, it supports one 1000/100/10Mbps Ethernet port
- Support Samba server for up to 16 concurrent clients.
- Support FTP server for up to 16 concurrent users.
- User management to allow read only or read/write access to folders
- Administrative management access via web browser with password security.
- Available for 3.5" SATA HDD
- Support USB3.0 transfer rates max up to 5Gb/sec
- LCD panel display internal operating temperature
- LCD panel display cooling fan speed
- Overheating alarm pre-set setting temperature(60℃+/-5%)
- The warning buzzer will emit a continuous beeping sound for 15 seconds if the internal temperature exceeds this level
- The fan speed change follow the temperature
- Drive enclosure made of aluminum alloy good for heat dissipation

OS Require:

Compatible with Windows XP/SP3; Vista/SP2, Win7; Mac OS 10.5.X; Linux (Samba 3.x)

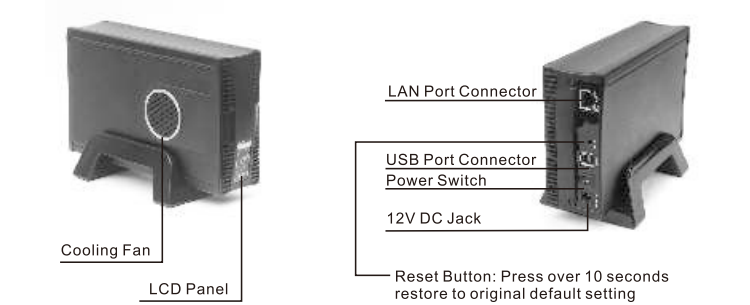
HDD Support:

A. NAS can recognize only the partition in FAT 64, maximum single file size is 127GB.

B. Max up to 3TB

2. Hardware

2.1 Take a look to the NAS Device



Note: when use the button to reset device, please turn off the power of the device, and press the button don't release, then turn on the power of the device and keep pressing the button over 10 seconds.

2.2 Accessories

1. One USB3.0 cable
2. One 1000M LAN cable
3. One Utility Installation CD
4. One user's manual
5. One 12V/2A DC Adapter
6. One screw package

3. Overheating alarm

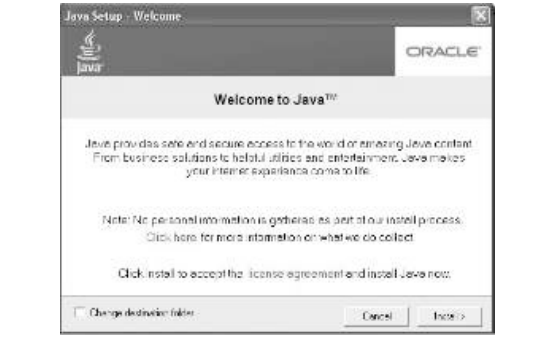
Paste the temperature inductor on the center of the HDD to activate temperature display. In order to ensure HDD work fine and prevent data loss, the operating temperature range is pre-set as 60℃+/-5%. The warning buzzer will emit a continuous beeping sound for 15 seconds if the internal temperature exceeds this level. When this occurs, please have your HDD to cool down before continuing operation.

4. Window's Tool

A. Quick Setup Wizard

1. Please make sure your computer supports the JAVA environment. If not, you can go to http://java.com to download and install the JAVA software.

2. Download free java drive to desktop, double click it to run file



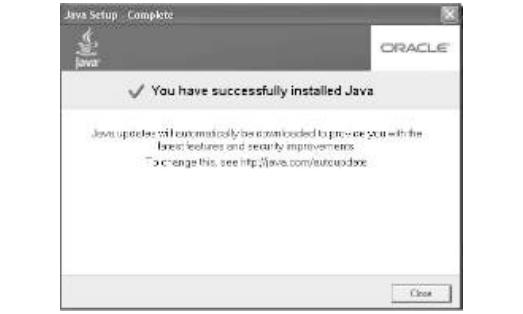
Java Setup - Welcome

Welcome to Java™

3. Click [Install] to continue

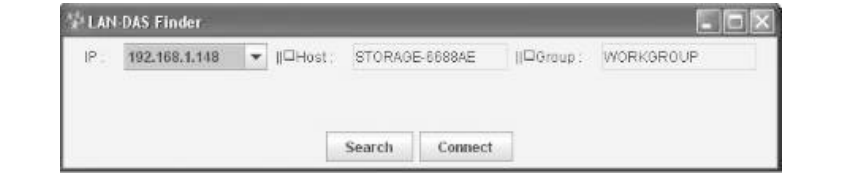
3 Billion Devices Run Java

4. Click [Close] to finish installation



You have successfully installed Java

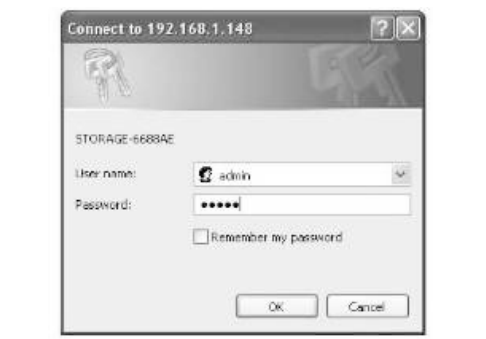
5. Insert the included CD Driver, Open the Server Search Tool of utility program [**SDisk**] and click Search Next to search the NAS from your network environment, and then click [Conect] into login screen.



LAN-DAS Finder

IP: 192.168.1.148 Host: STORAGE-6688AE Group: WORKGROUP

6. Please enter default username: **admin** and password: **admin**



Connect to 192.168.1.148

STORAGE-6688AE

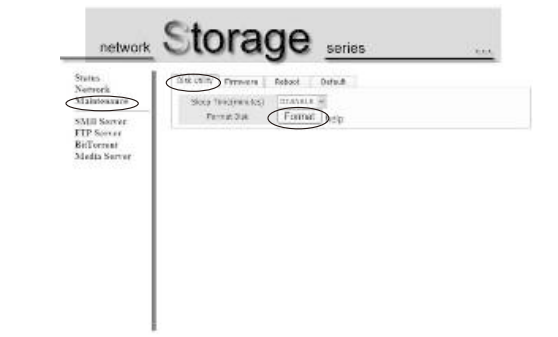
User name: admin

Password: •••••

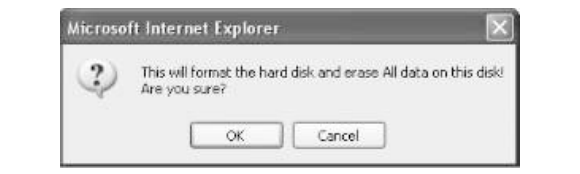
4.1 Maintenance

4.1.1 Disk Utility

Before attaching HDD, please check the following items:
A. NAS can recognize only the partition in FAT 64, maximum single file size is 127GB.
B. If your external HDD is not FAT 64 format, please use the disk utility in ″Disk Utility″ to format your HDD into FAT 64.



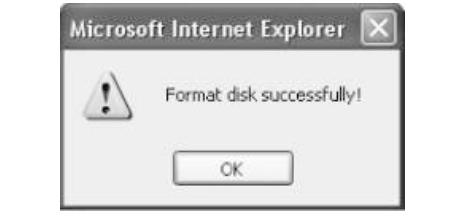
Note: Formatting HDD will cause data lost.



Microsoft Internet Explorer

This will format the hard disk and erase All data on this disk! Are you sure?

After finish formatting, a new webpage will be redirected and shows ″Format successfully!″



Microsoft Internet Explorer

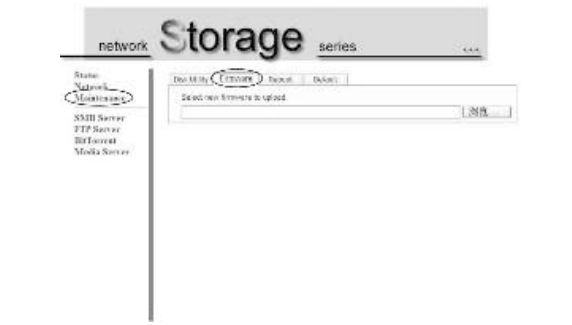
Format disk successfully!

Note:

- **Windows XP must have service Pack 2 or later and install an update to support exFAT**
- **Windows Vista must be Service Pack 1 or later for exFAT support**

4.1.2 Firmware

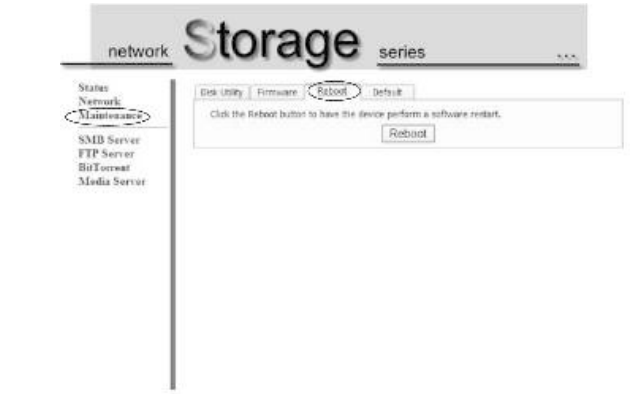
Click this option you can update new firware



User may enhance better performance and stability by upgrading Firmware. Simply download the firmware to computer and click on ″Browse″ to select it. Make sure the firmware is correct and press ″Firmware Upgrade″ to process it. Firmware Upgrade will spend several minutes and the current setting will also be erased.

4.1.3 Reboot

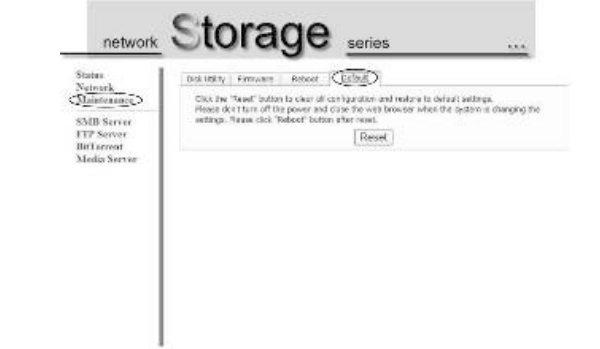
Click the Reboot button to have the device perform a software restart.



This function let user to restart the device without pressing the physical reset button. To restart this device, click on ″OK″.
Restart will complete in 60 seconds and will automatically redirected to status page if it is setting with a fixed IP.

4.1.4 Default

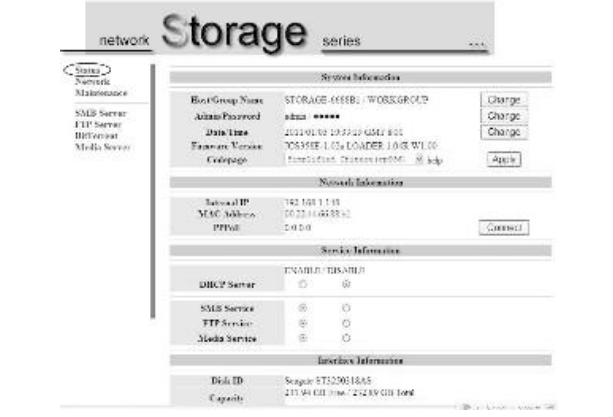
Click [**Default**], the NAS device will reload the default setting and all the current setting will be erased.



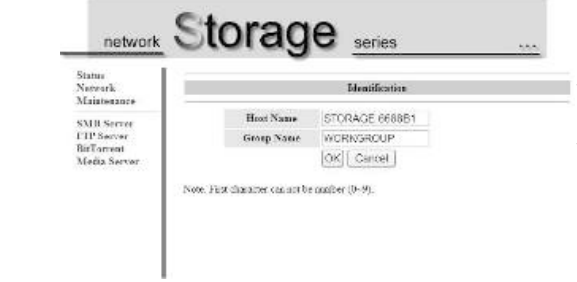
Click [**Default**] button to clear all configuration and reload the default settings. Please don't turn off the power and close the web browser when the system is changing the settings.

4.2 Status

After logging in, user may find the current system and TCP/IP information by clicking on ″Status″.
System Information:
It provides system and disk information. System information includes the basic information such as Host Name, Group Name, Firmware version, MAC Address and Date/Time.
Disk Information:
It provides the information of attached HDD such as device name, used size, free size and capacity.

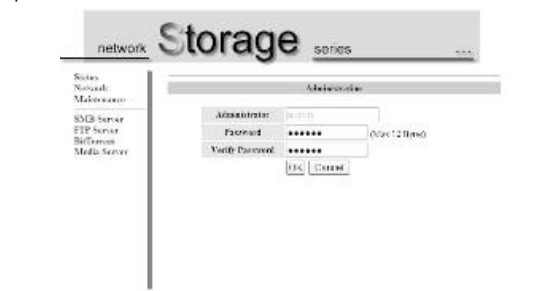


[**Host/Group Name**]:Click [change], you can rename the Host and group name; change the password and update the date and time

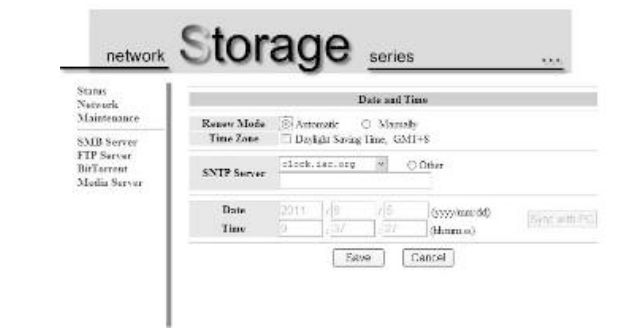


Host Name: The name you want to be shown in local LAN.
Group Name: The workgroup that you would like to join. By Windows are generally ″MSHOME″ or ″Workgroup″

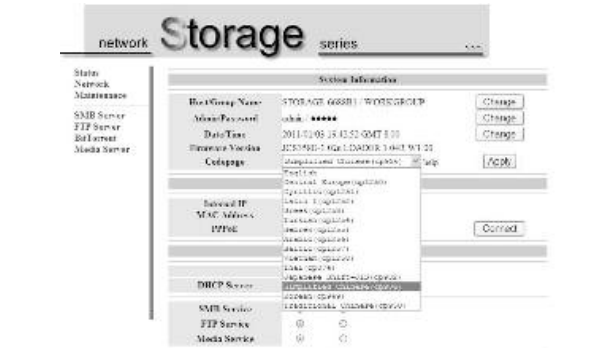
[**Admin/Password**]: Click [Change] you can rename the admin name and change password.



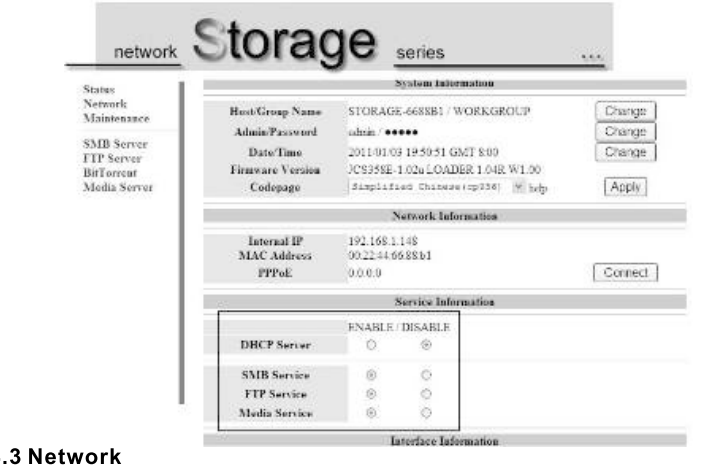
[**Date/Time**]: Click [Automatic] to renew the time



[**Codepage**]: you can select the language for the codepage that you wanted

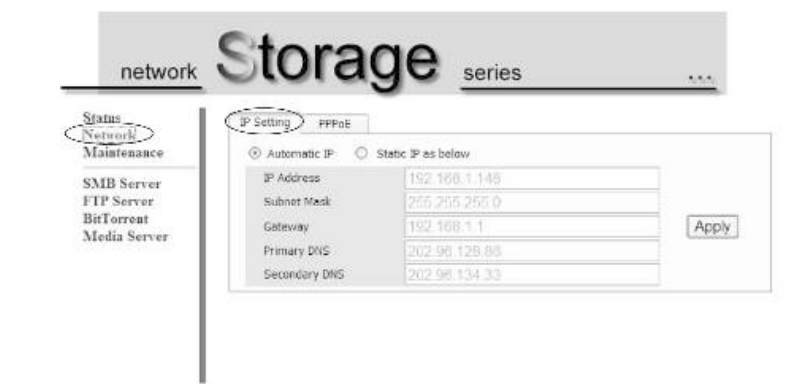


The default setting: [DHCP Server] is [Disable]; and [SMB Server] / [FTP Server] / [Media Server] is [Enable]. and you can set it again.



4.3 Network

[**IP Setting**]
If your network has DHCP IP, select [Automatic IP], if you use static IP, please select [Static IP] and fill the information

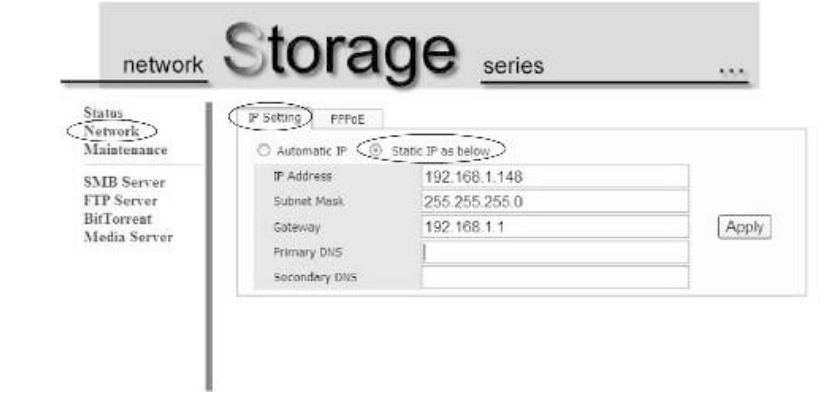


Automatic IP: When this option is enabled, NAS will use the IP assigned by router. However, this IP may changes from time to time.

IP provides current IP settings and information. The Status of DHCP, IP address, Subnet Mask, Gateway, Primary DNS, Secondary DNS setting will be shown here.

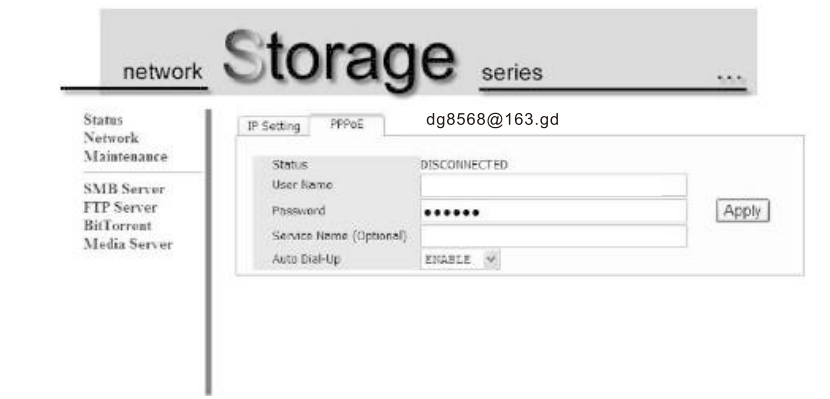
Static IP: Select this option will allow user to setup a fixed IP, Subnet Mask, Gateway, Primary DNS and Secondary DNS.

IP Address:-------------Enter the static IP address
Subnet mask:----------Enter the subnet mask address
Default gateway:------Enter the gateway IP address
DNS1 and DNS2(both optional):------If available, enter those IP address here



IP Address 192.168.1.148
Subnet Mask 255.255.255.0
Gateway 192.168.1.1

[**PPPoE Setting**]
Point-to-Point Protocol over Ethernet (PPPoE) emulates a dial-up connection. If your ISP uses a PPPoE connection. Your ISP will provide you with a username and password. This option is typically used for DSL services.

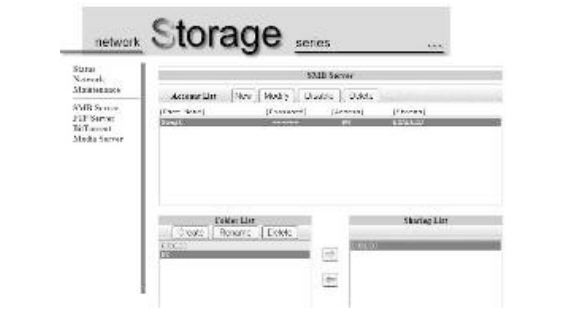


dg8568@163.gd

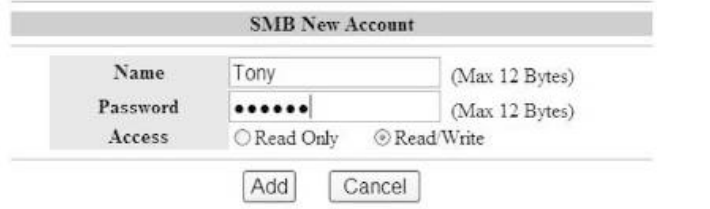
4.4 SMB Server

Enable SMB service let the user to read or read/write files in local network

4.4.1 Create a SMB account



Click on ″New″, the browser will bring up a ″SMB New Account″ windows. Type an account name and password. You may also choose the ″Access Right″ for the added account, it could be ″Read only″ or ″Read/Write″. **After a new SMB account created, a default folder will be created; name of the folder is the same as account name.**

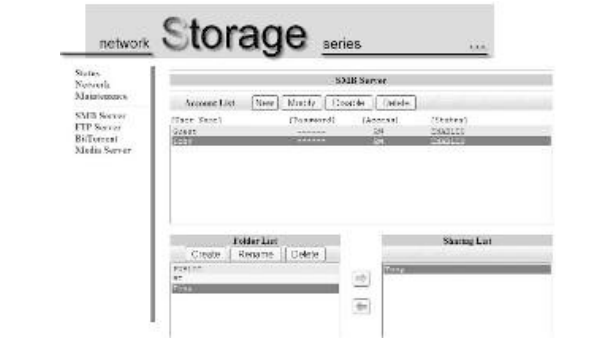


SMB New Account

Name: Tony (Max 12 Bytes)
Password: •••••• (Max 12 Bytes)
Access: ○ Read Only ● Read/Write

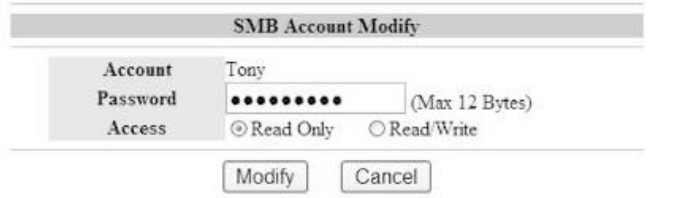
Add Cancel

The new account [Tony] and the new folder [Tony] display in the [User name] and [Folder List]



4.4.2 Modify a SMB account

Click on ″Modify″, the browser will bring up a ″Modify SMB Account″ window. Here you may change the pass word and the read/write attribute of selected account. Also, you may change the folder name by renaming it.
In ″Sharing List″, you may decide which folder you would allow the user to browse and write.

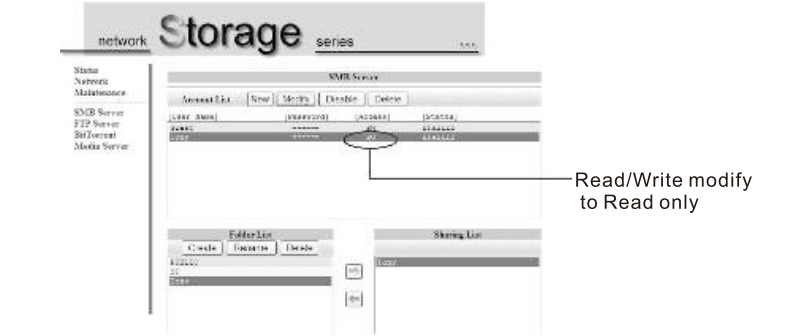


SMB Account Modify

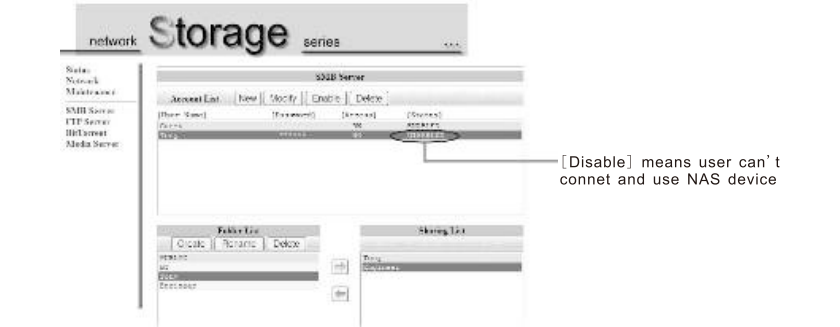
Account: Tony
Password: ••••••••• (Max 12 Bytes)
Access: ● Read Only ○ Read/Write

Modify Cancel

The user access modify to [RO]-----Read Only

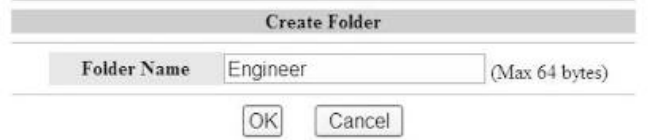


Select the user and click [Enable], the user can't to connect the network disk



4.4.3 Create and share a folder

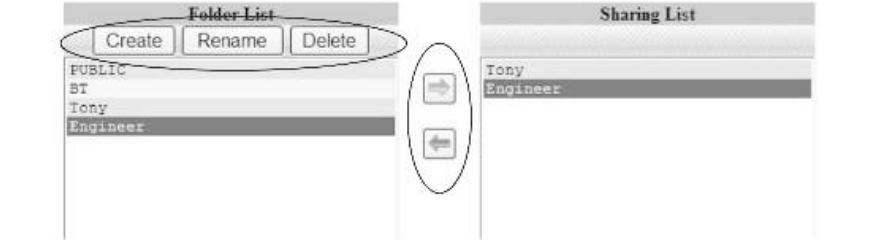
Click on ″Create″, the browser will bring up a ″Create foler″ window. Here you may enter the folder name. Also, you may change the folder name by renaming it.
In ″Sharing List″, you may decide which folder you would allow the user to browse and write.



Create Folder

Folder Name: Engineer (Max 64 bytes)

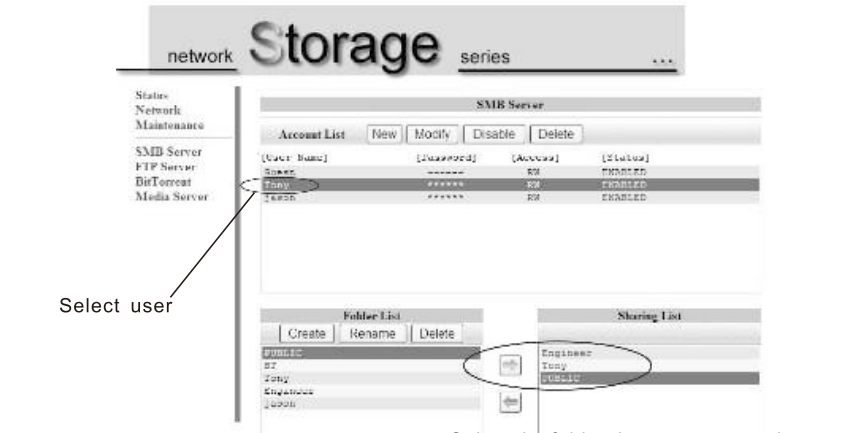
OK Cancel



Folder List	Sharing List
PUBLIC	Tony
BT	Engineer
Tony	
Engineer	

Click "Rename" or "Delete" and rename or delete the folder.

When you create one user, there has a same name folder will display at the window. For the different user, you can select the folder to share to the user. example you need share [Tony]/[Public]/[Engineer] this 3 folder to tony, please click [Tony], and select the 3 folder to share at the right window.

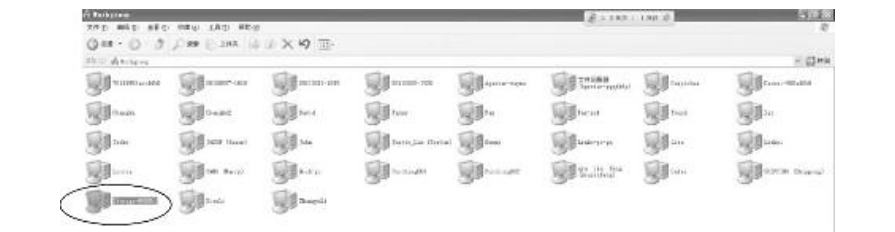


Select the folder that you want to share to the user, turn it to the sharing list window.

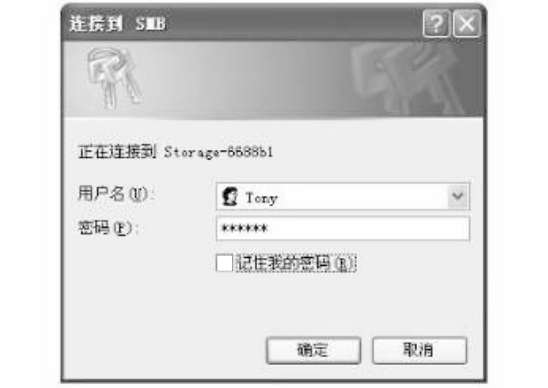
4.4.4 User connect the NAS device

When the user have a user account and password, the user can join the NAS device as below:

Click [My network place]--[Microsoft Windows Network]--[Workgroup], you will find the NAS device [Storage-6688B1] as below:



Double click the NAS device [Storage-6688B1], a window display as below:



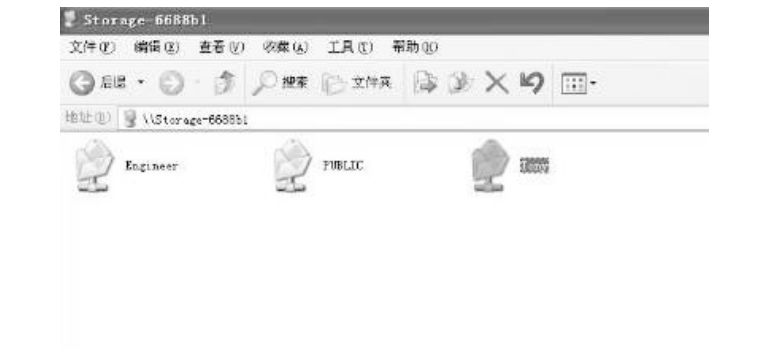
连接到 SMB

正在连接到 Storage-6688b1

用户名(U): Tony

密码(P): ******

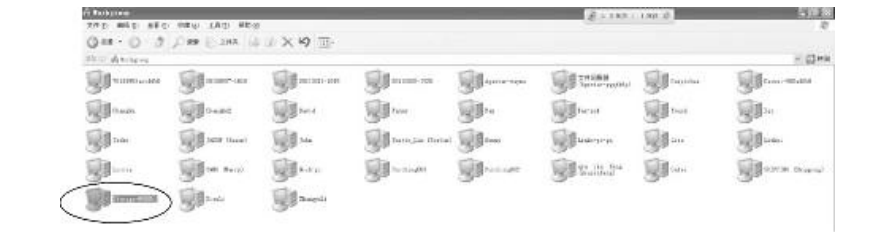
Enter the user name example as [Tony] and password, you can enter the NAS device, and the sharing folder will display at the window:



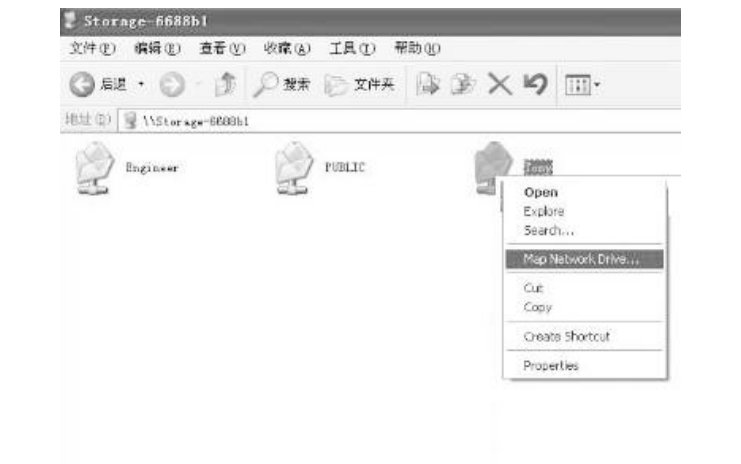
4.4.5 User map network drive

If user usually use one share folder, so can map a network drive in windows, the step as below:

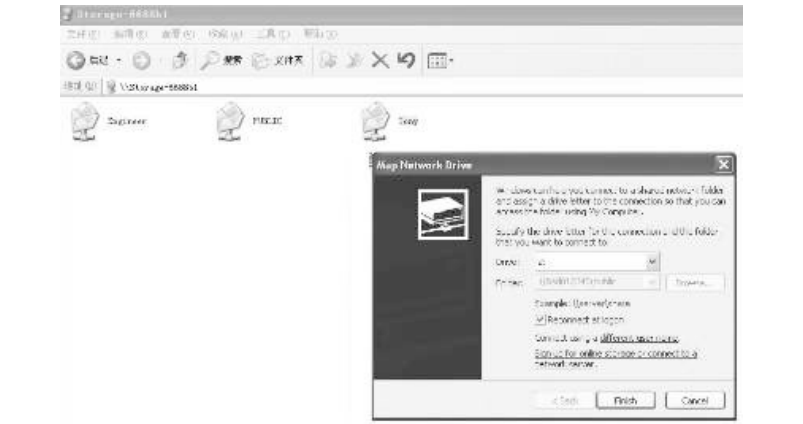
Open [My network place]--[Microsoft Windows Network]--[Workgroup], find the NAS device [Storage-8866b1]



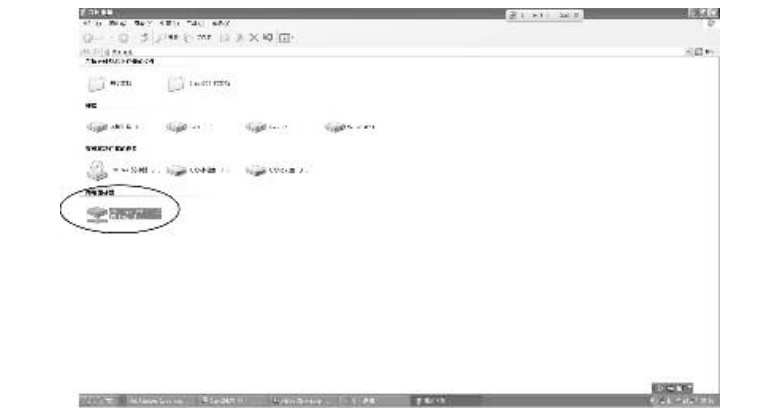
Double click the NAS device, enter the windows, select one folder that you usually use with right button, and selet [Map network device]



And select map drive number such as [Z:], and select [Reconnect at logon], lick finish



Now open [My Computer], the disk drive [Z] will appear at the local disk place.

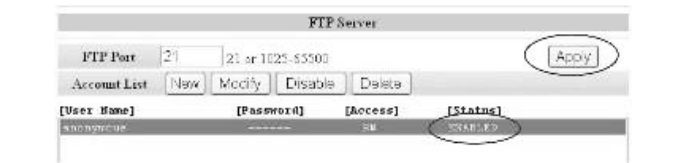


4.5 FTP Server

FTP (**File Transfer Protocol**) Enable FTP server service let the user to upload/download files from local network or internet.

4.5.1 FTP Service:

Click ″Enable″ and ″Apply″ will start the FTP service. To stop FTP service, click ″Disable″ and ″Apply″ to take effect.

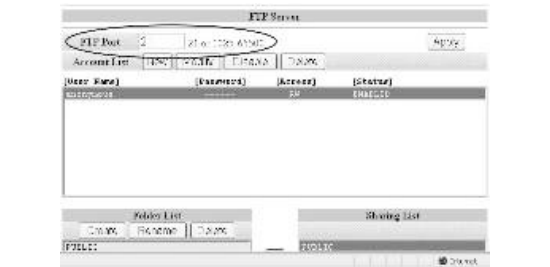


FTP Server

FTP Port: 21 (21 or 1025-65500)

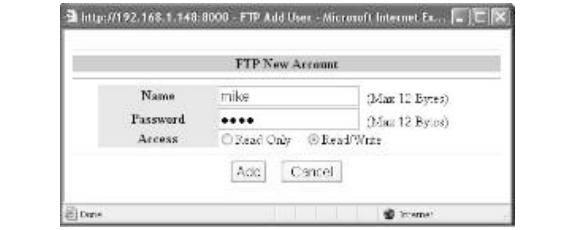
4.5.2 FTP Port Number:

By default is port 21. User may also enter the number from 1025 to 65535.



4.5.3 Create a FTP account:

Click on ″New″, the browser will bring up a ″FTP New Account″ windows. Enter an account name and password. You may also choose the ″Access Right″ for the added account, it could be ″Read only″ or ″Read/Write″. After a new FTP created, a default folder will be created; name of the folder is the same as account name.

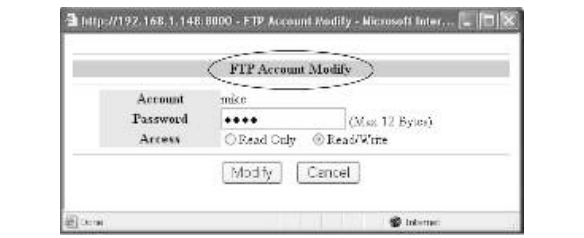


FTP New Account

Name: mike (Max 12 Bytes)
Password: •••• (Max 12 Bytes)
Access: ○ Read Only ● Read/Write

4.5.4 Modify a FTP account:

Click on ″Modify″, the browser will bring up a ″Modify FTP Account″ window. Here you may change the password and the read/write attribute of selected account. Also, you may change the folder name by renaming it.
In ″Sharing List″, you may decide which folder you would like allow the user to browse and write.

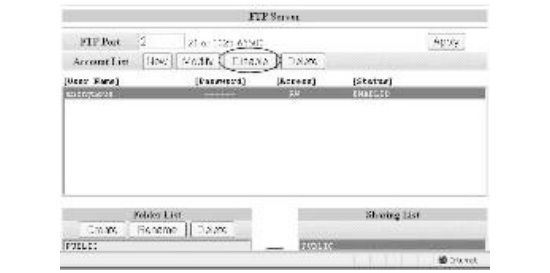


FTP Account Modify

Account: mike
Password: •••• (Max 12 Bytes)
Access: ○ Read Only ● Read/Write

4.5.5 Enable/Disable:

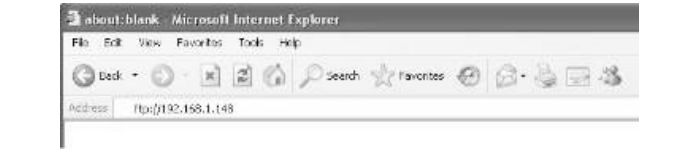
This function allows the administrator temporary stop the FTP service to certain user. Click ″Enable″ and ″Apply″ will start the FTP service. To stop FTP service, click ″Disable″ and ″Apply″ to take effect.



4.5.6 Delete: To delete the ftp user account.

4.5.7 Use FTP Account

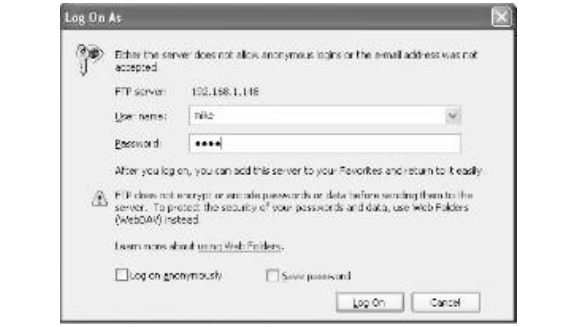
Enter: http://192.168.1.148



about:blank - Microsoft Internet Explorer

Address: ftp://192.168.1.148

Enter use name and password, log on



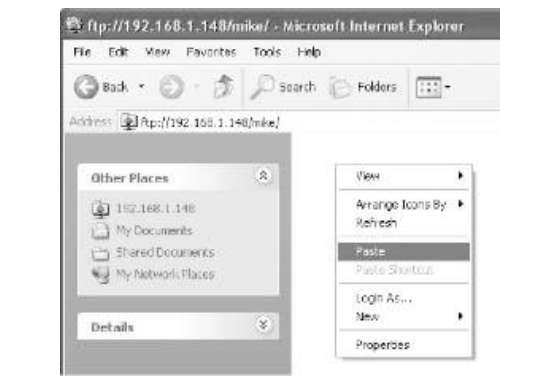
Log On As

FTP server: 192.168.1.148

User name: mike

Password: ••••

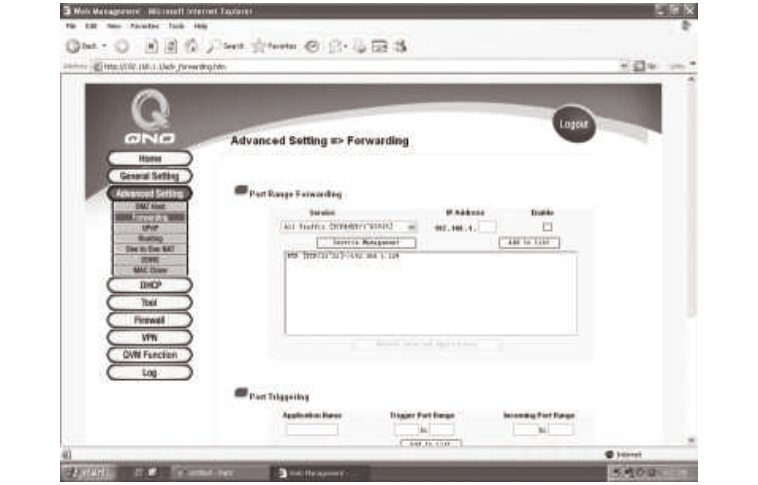
Now you can upload or download file



ftp://192.168.1.148/mike/ - Microsoft Internet Explorer

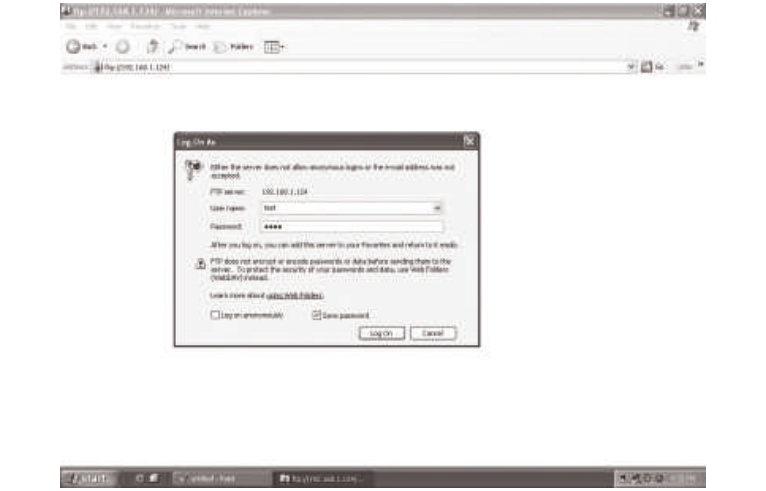
4.5.8 FTP Setting in router

Forwarding :If you want to use FTP server and remote setup, you have to set Static IP address.(eg:192.168.1.124) and enter your NAS static IP to Router forwarding.

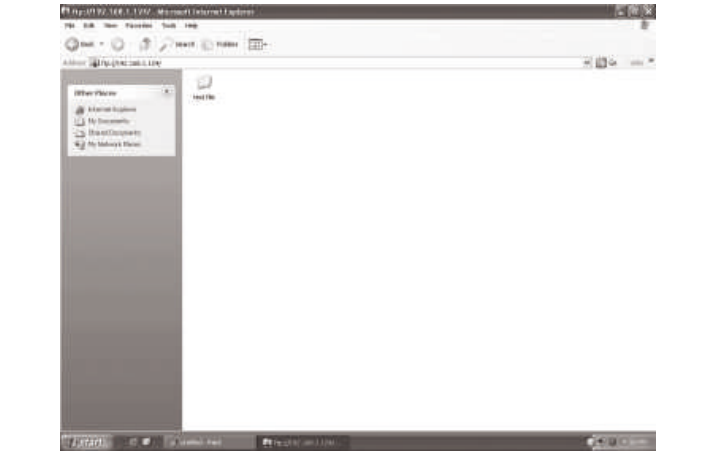


Advanced Setting => Forwarding

Now test the local FTP server:ftp://192.168.1.124 ,enter the user name and password, click [Log on]

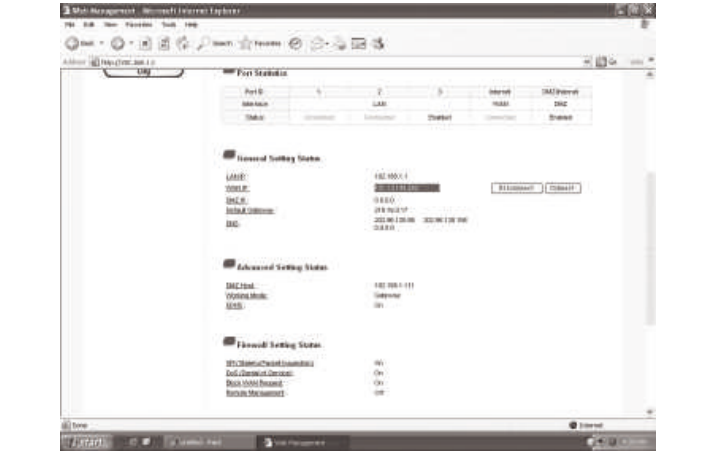


The shared folder appear, FTP function test OK.



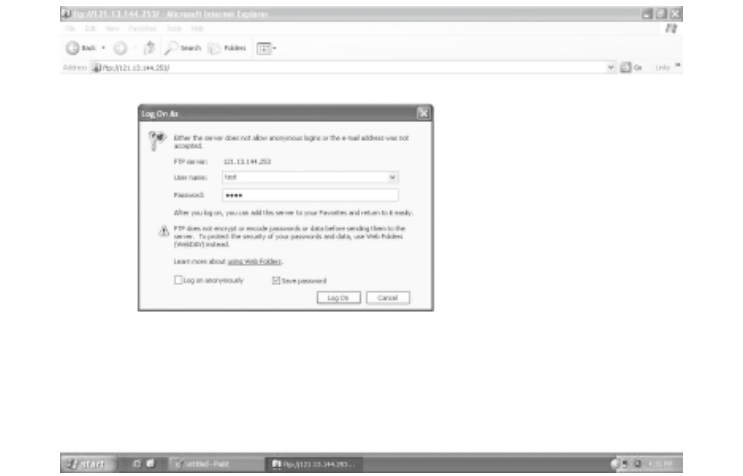
Test the FTP server via internet.

If you use WAN IP is static such as (121.13.144.253)

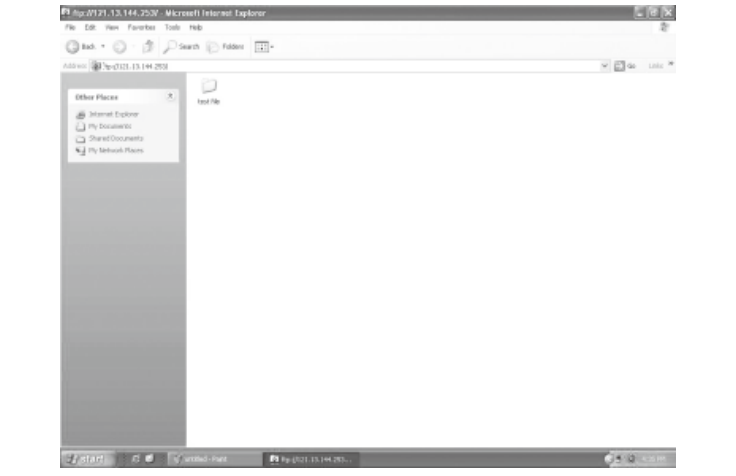


Please enter **[Ftp://121.13.144.253]** to visit FTP server.

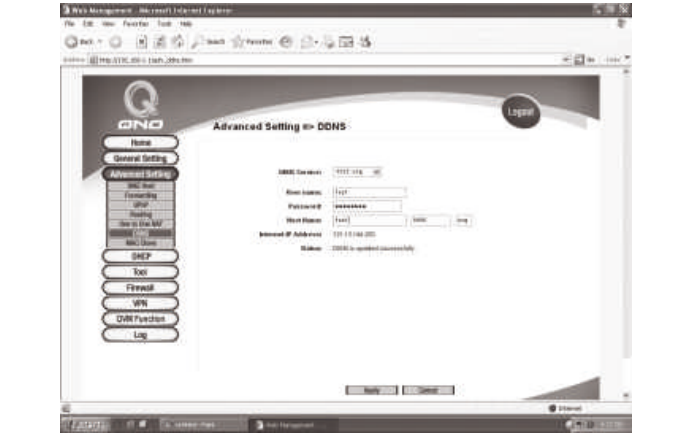
Enter the user name and password, click [**Log on**]



The shared folder appear, FTP function test ok

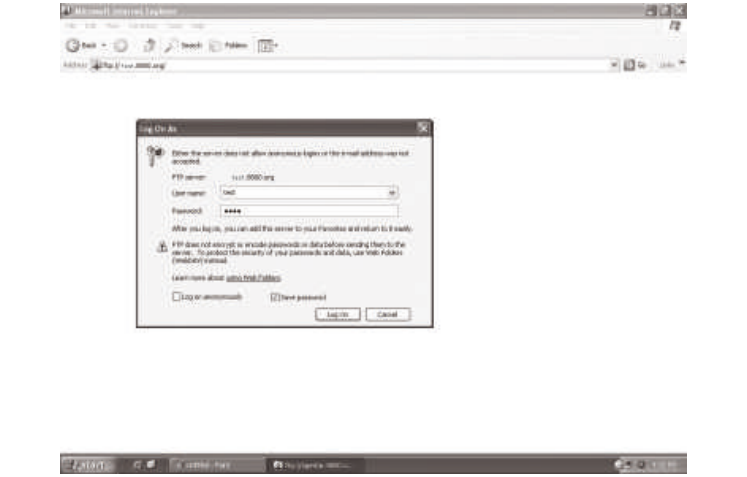


If WAN IP you are using is dynamic, you need to use free of charge DDNS to relate your WAN IP. Please check with the router manufacture on DDNS how to set.

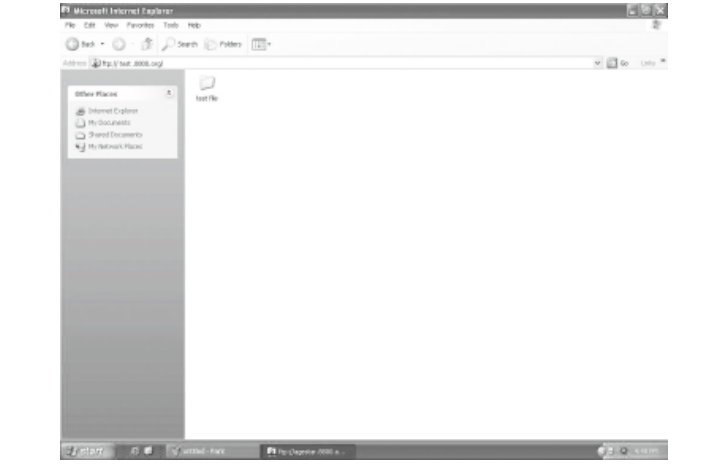


Advanced Setting => DDNS

Now you can visit FTP server using the Domain name and remotely set your NAS DNNS: [ftp://test.8800.org] (only for example), enter user name and password



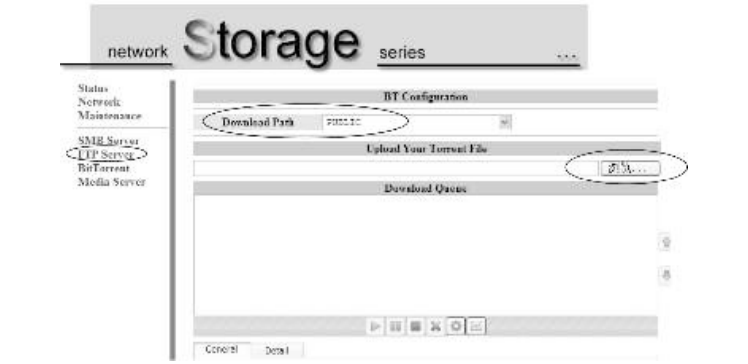
The shared folder appear, FTP function is ok



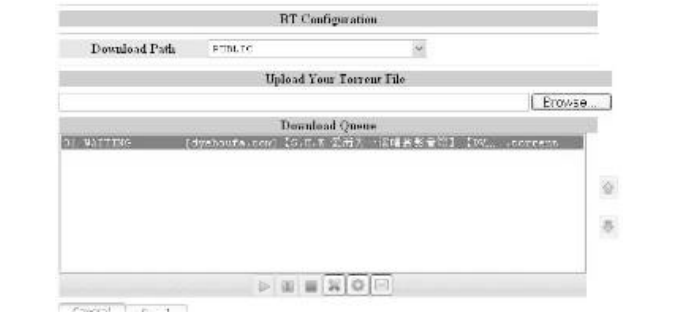
You can also remotely set your NAS product. For further setup detail, please inquire your network engineer for help.

4.6 BitTorrent

1.Please download the torrent that you want on desktop
2.set the download path for BT



3.Click "Browse" to select the torrent to dowload



BT Configuration

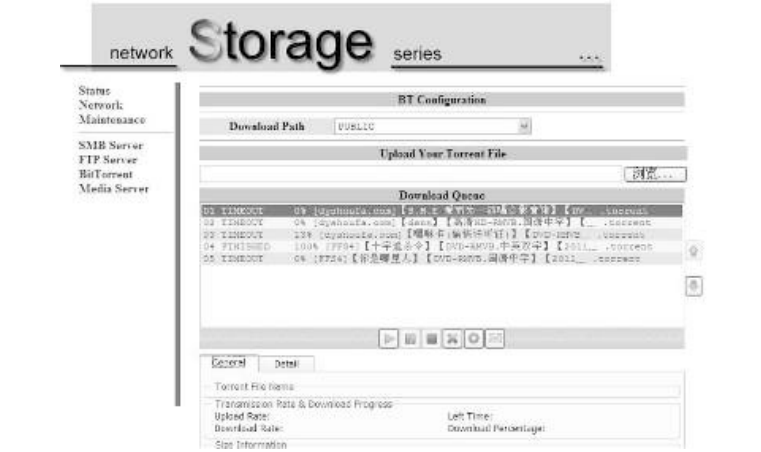
Download Path: PUBLIC

Upload Your Torrent File

Download Queue

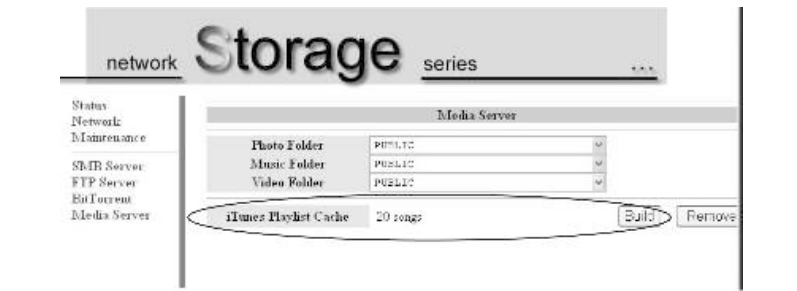
In Download Queue will show the downloading file.

TIP: NAS supports maximum 4 torrents download at the same time and maximum 32 Torrents queuing



4.7 Media Server

NAS device allows PS3, XBOX360 and even iTunes to access the sharing folder. User may organize their file by types. USB Media Adapter provides Photo, Music and Video category.
TIPS: *User may use SMB service save the file to specific category and select it in Media Server to share and play back with PS3, XBOX360 and iTunes.*



Media Server

Photo Folder: PUBLIC
Music Folder: PUBLIC
Video Folder: PUBLIC
iTunes Playlist Cache: 20 songs

5. USB Storage Mode

The product can be used just as a external enclosure under USB3.0 mode, When under Windows XP/Vista/7, the system will auto-detect the device.

When it be used only as one external enclosure, it support FAT16/FAT32/EXFAT/NTFS HDD style

6. FAQ

Q: Why can not run [Sdisk] drive?

A: Please make sure your computer supports the JAVA environment. If not, you can go to http://java.com to download and install the JAVA software.

Q: Why can not detect the NAS device in network with Nettools utility?

A: Please check the network and the NAS device has connect correct, then turn on the power of the NAS device, press the [Reset] button over 10 seconds to restart the device, then use [SDisk] to search again

Q: How to search and enter setting when use static IP?

A: When use static IP, the NAS device can not auto detect and add the IP address to network. You should connect the device to network and use [SDisk] to search the device, the default IP address is [192.168.1.148], then enter the [Network] -[IP Setting] window, enter the IP value then you can to set.

Q: How to add the NAS SMB device to different Work Group?

A: Please enter Web setting page, select [Status] --[Host/Groupname] option, modify the workgroup name to you want, then click [OK] to confirm, so you can add it to the different Work Group.

Q: How to set the NAS device as a FTP server? And how to set the IP address?

A: If you want to use this NAS device as a FTP server and visit it through the network, you must to set the IP address to static IP address, so the WAN IP can mirror with the LAN IP address, then you can visit it through the network.

Q: Why can not upload the files when using the FTP function? or the file showing messy yard? or can not delete?

A: The software with the NAS device have built in many language in it, If your system language is different with it, the question above will happen. So please set your system language to same.

Q: I can detect the HDD which installed in the NAS device and can enter the setting page, but why can not build user and shared folder?

A: The device is ok. Please enter [Hard Disk Utility] page, and format the HDD to FAT64 style.

Q: Why sometimes the BT download speed is very slowly?

A: This is involved the reasons in many aspects: the local network speed, the setting of the windows fire-wall and the quantity of the seed......we propose to modify the TCP& UDP port number to 10000~65535, and check the setting above.

Q: My router connect to the NAS device and assign IP address, the SMB is ok but visit interl FTP is slowly, why?

A: Usually in inside network we need not to use FTP to visit it, some high-grade router is fast.

Q:Can connect both usb and rj45 at the same time? Which control first?
A:Can connect both USB and RJ45 simultaneously.USB control first.

Q:No local search function to detect the NAS?
A:Have local search tool in CD

Q:What are the limitation of linux base NAS
A: Without special limitation

Q:Can the nas be access using a internet browser?
A:Yes,the NAS can be accessed using internet browser

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