Dual Bay Home Media Store

User Manual

CH3HNAS2

V1.0

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Chapter 1: Home Page

You can select to browse the Dual Bay Home Media Store UI with Flow View.

Flow View:

Setup Wizard

Link to the first web page of setup wizard (defined in Chapter 2)

Settings

Link to system page (defined in Chapter 3)

User Management

Link to user page (defined in Chapter 3)

Download Station

Link to BT job list page (defined in Chapter 4)

Online User Manual

A user manual in PDF format will be opened or downloaded

Support

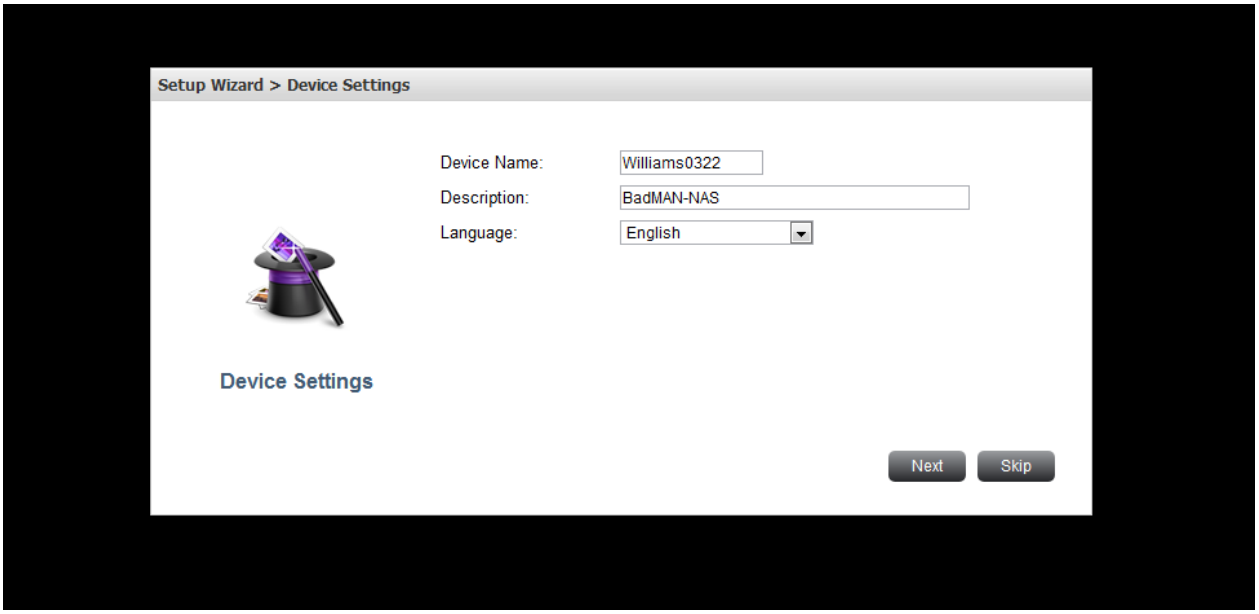
E-mail client installed in user's PC will be launched, and the sender e-mail address will be "support@conceptronic.ne")

Chapter 2: Setup Wizard

Administrator can set the basic function step by step when access the NAS at the first time.

Device Settings

Administrator can set device name, description and select language on this page.



✓ **Device Name**

Enter the name of the NAS. The server name can be 15 characters long at maximum, which supports alphabets, numbers, and hyphen (-). The server does not accept names with space, period (.).

✓ **Description**

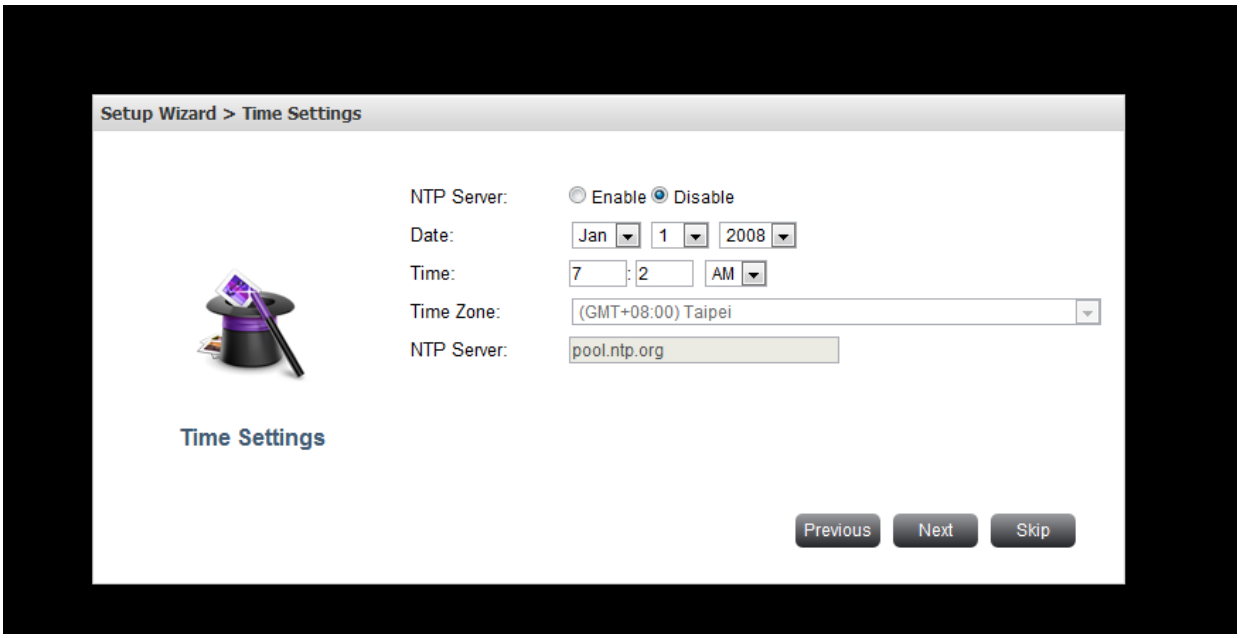
Enter the description of the NAS. The server description can be 50 characters long at maximum, which supports alphabets, numbers, and hyphen (-). The server does not accept names with space, period (.).

✓ **Language**

Administrator can select the display language on the drop-down menu on this page of the NAS.

Time Settings

Administrator can set the date, time, and time zone according to your location on this page.



✓ **Date, Time and NTP**

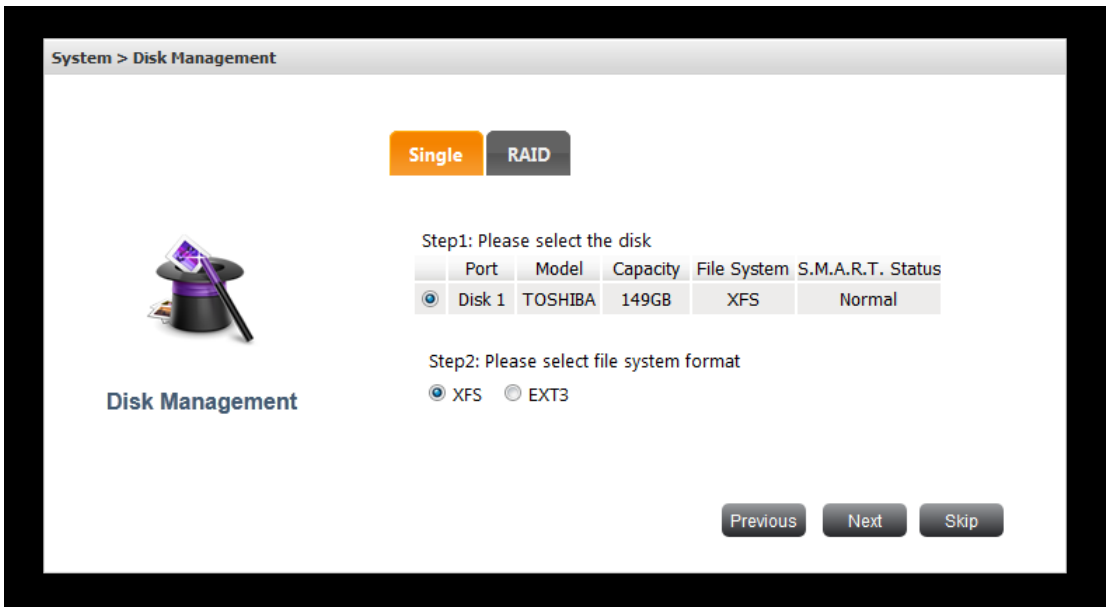
Set the date, time, and time zone according to your location.

Note: Synchronize with an Internet time server automatically.

You can enable this option to update the date and time of the system automatically with specified NTP server.

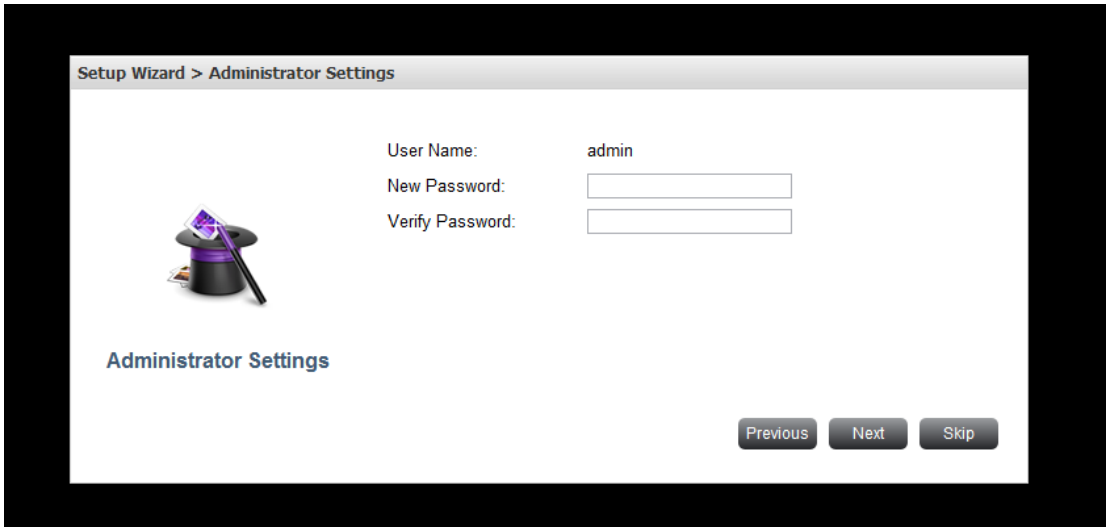
Disk Format

Administrator can select the file system and format the internal storage device on this page.



Administrator Settings

Administrator can change the password on this page.



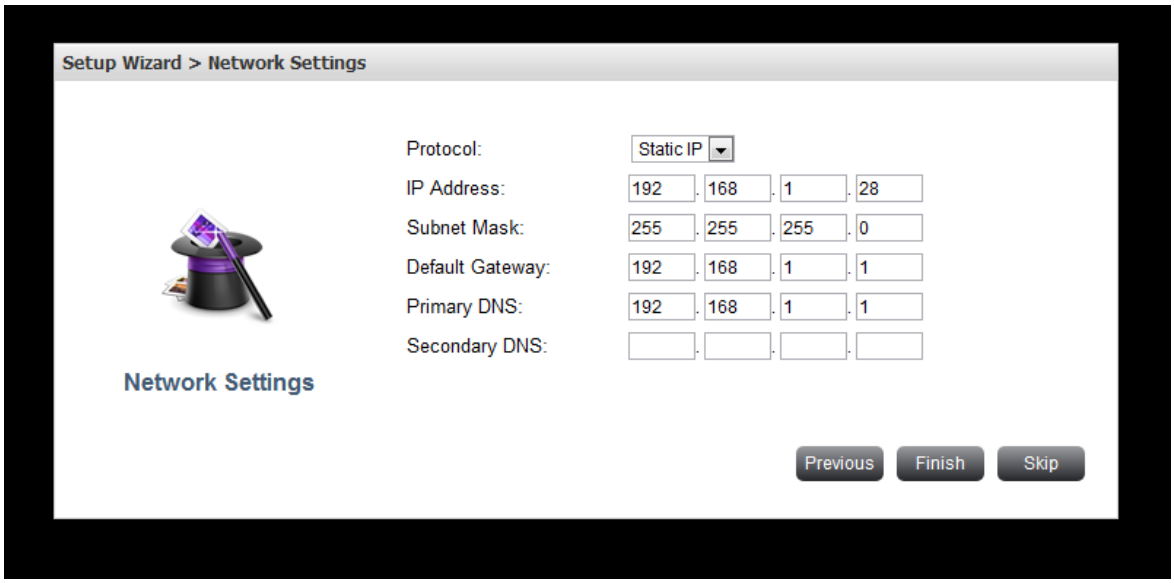
✓ **Password**

Input range: 5~20 characters.

The invalid characters are: " / \ [ ] : ; | = , + * ? < > ` '

Network Settings

Administrator can select protocol type on this page.



✓ Obtain the IP address settings automatically via DHCP

If your network supports DHCP, the NAS will use DHCP protocol to retrieve the IP address and related information automatically. If NAS cannot obtain an IP at the boot time, the IP will be configured as the default IP -- 192.168.1.1.

✓ Use static IP address

To use fixed IP address for network connection, enter the IP address, subnet mask, and default gateway.

✓ DNS

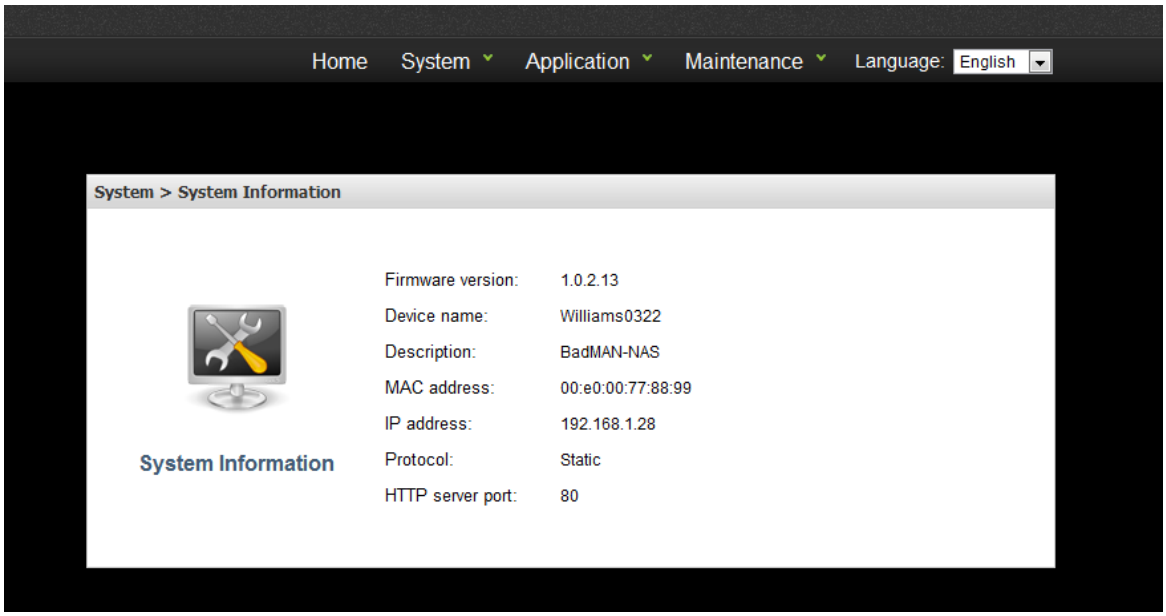
Primary DNS Server: Enter the IP address of the primary DNS.

Secondary DNS Server: Enter the IP address of the secondary DNS.

Chapter 3: System

System menu displays functions under this category.

System Information



- ✓ **Firmware Version**

  Show firmware version of the NAS.

- ✓ **Device Name**

  Show the name of the NAS.

- ✓ **Description**

  Show the description of the NAS.

- ✓ **MAC Address**

  Ethernet MAC address.

- ✓ **IP Address**

  Show the NAS IP address.

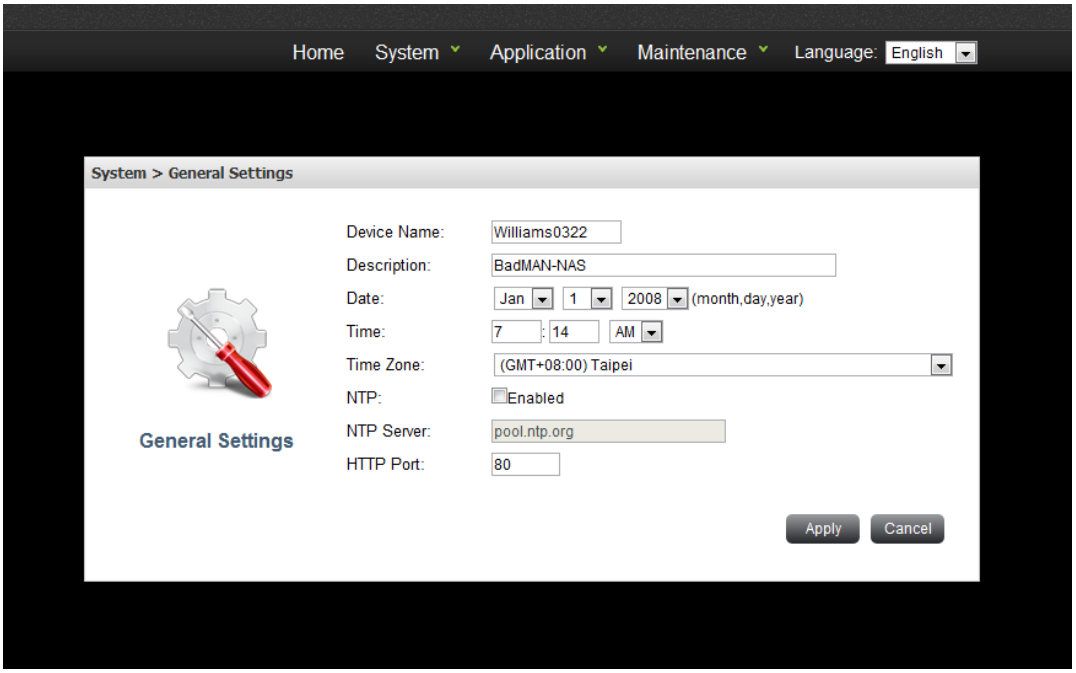
- ✓ **Protocol**

  Show the protocol used to obtain the IP address (DHCP or Static IP).

- ✓ **HTTP Server Port**

  Assign a port for the NAS http port.

General Settings



- ✓ **Device Name**

  Enter the name of the NAS. The server name can be 15 characters long at maximum, which supports alphabets, numbers, and hyphen (-). The server does not accept names with space, period (.).

- ✓ **Device Name Description**

  Enter the description of the NAS. The server description can be 50 characters long at maximum, which supports alphabets, numbers, and hyphen (-). The server does not accept names with space, period (.).

- ✓ **Date, Time and NTP**

  Set the date, time, and time zone according to your location.

  Note: Synchronize with an Internet time server automatically.

  You can enable this option to update the date and time of the system automatically with specified NTP server.

✓ NTP Server

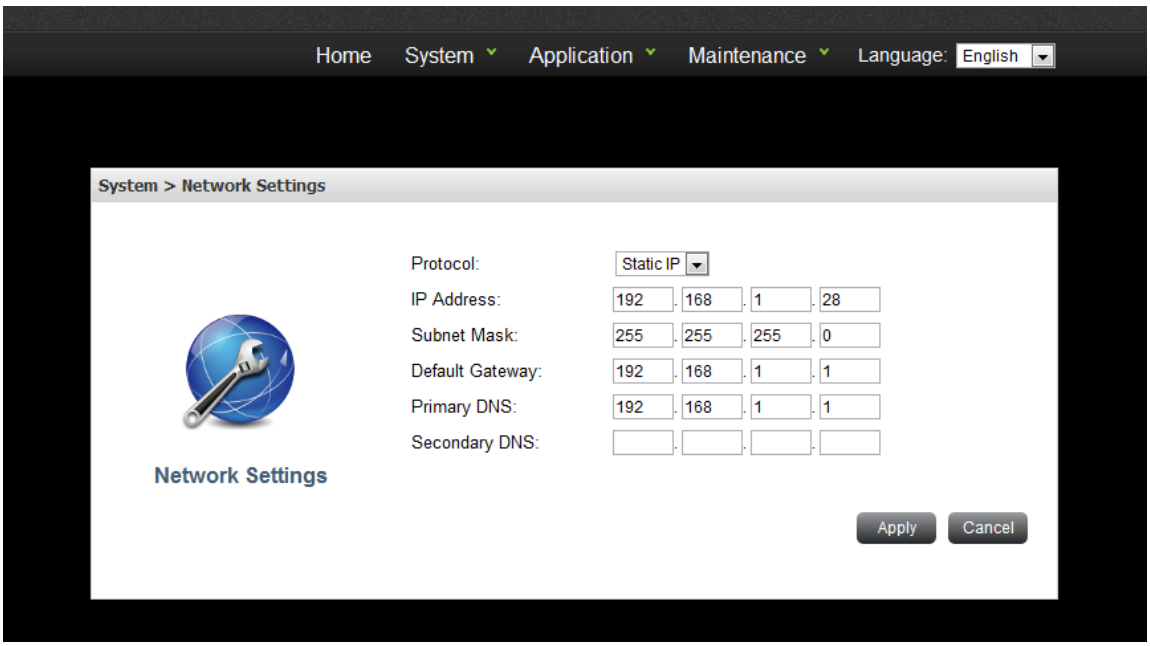
NAS can be sync with the NTP server if it is enabled.

✓ HTTP Port

Assign a port for the NAS http port.

Default value: 80, input range: 1 ~ 65535.

Network Settings



✓ Protocol

✧ **Obtain the IP address settings automatically via DHCP**

If your network supports DHCP, the NAS will use DHCP protocol to retrieve the IP address and related information automatically. If NAS cannot obtain an IP at the boot time, the IP will be configured as the default IP -- 192.168.1.1.

✧ **Use static IP address**

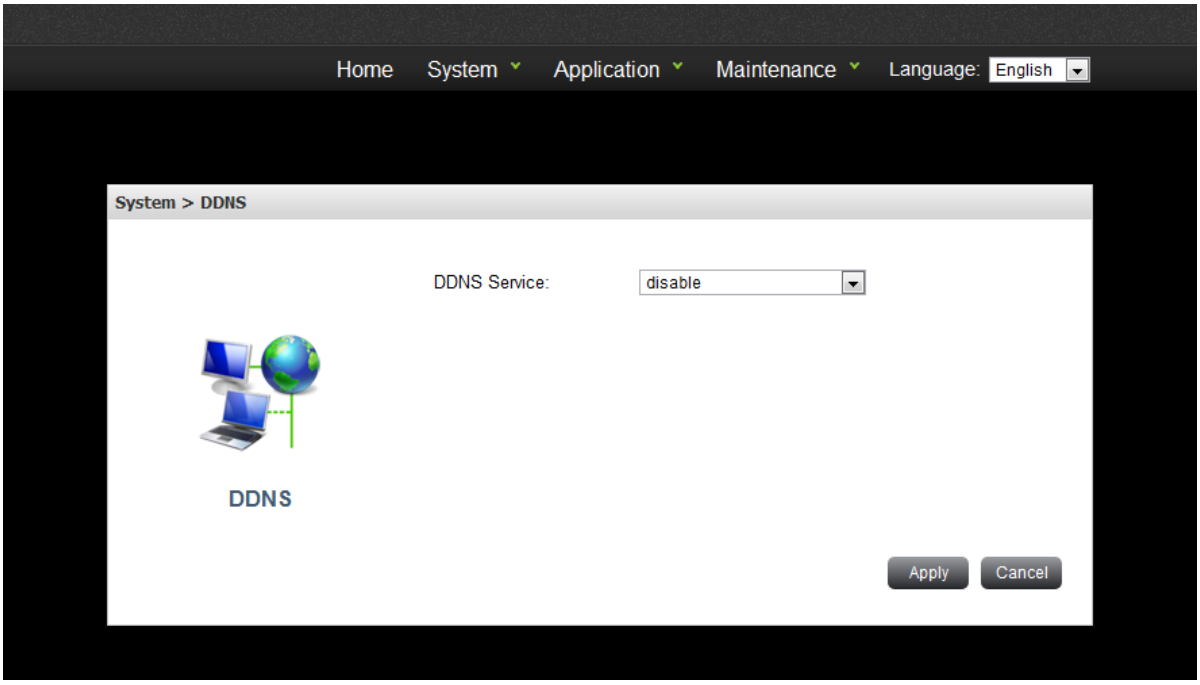
To use fixed IP address for network connection, enter the IP address, subnet mask, and default gateway.

✓ DNS

✧ **Primary DNS Server: Enter the IP address of the primary DNS.**

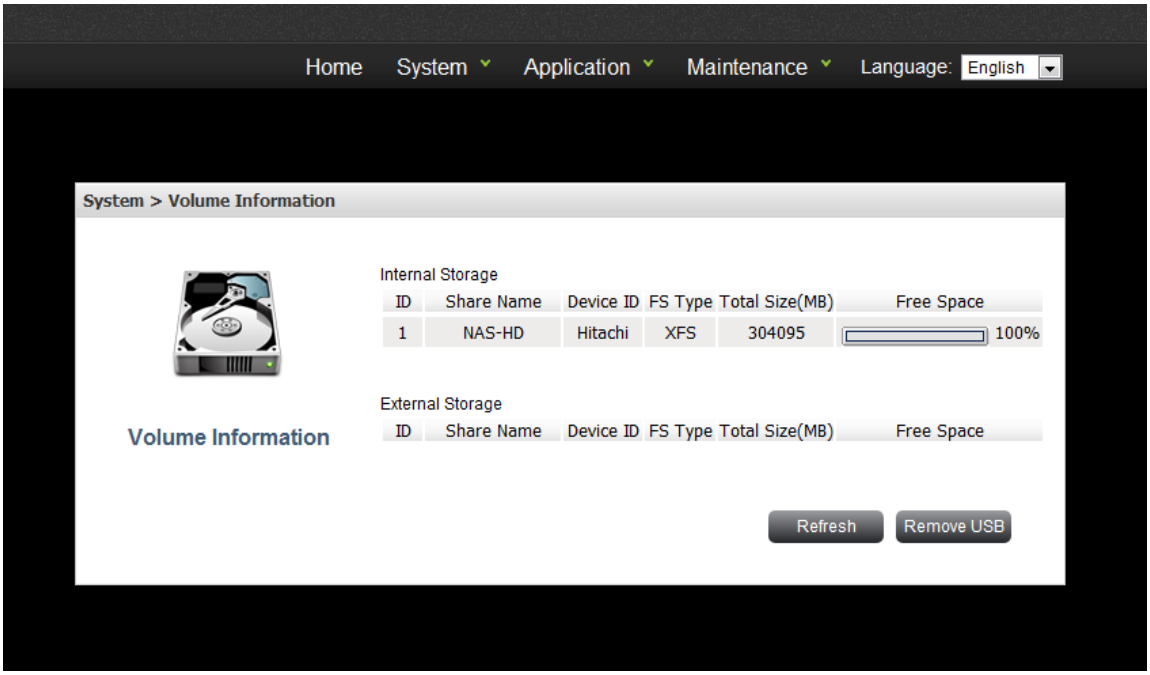
✧ **Secondary DNS Server: Enter the IP address of the secondary DNS.**

DDNS



- ✓ Register a domain name from a DDNS provider
- ✓ Enable DDNS service
- ✓ Fill in the DDNS account information on the DDNS page on the NAS
- ✓ NAS will update the WAN IP information to the DDNS provider automatically
- ✓ Remotely connect to the NAS by the domain name you registered from any PC
- ✓ The DDNS provider will map the WAN IP updated by NAS to the domain name should the IP change

Volume Information



✓ Internal Storage Device

- ✧ This page shows the ID, share name, device ID, file system type and total size of the internal storage device on the NAS.
- ✧ ID: The storage device ID number given by NAS.
- ✧ Share Name: The storage device name.
- ✧ Device ID: The disk ID given by the storage device manufacturer.
- ✧ File system type: the file system of the storage device.
- ✧ Total Size: The total size of storage device.
- ✧ Free Space: The available space of storage device.

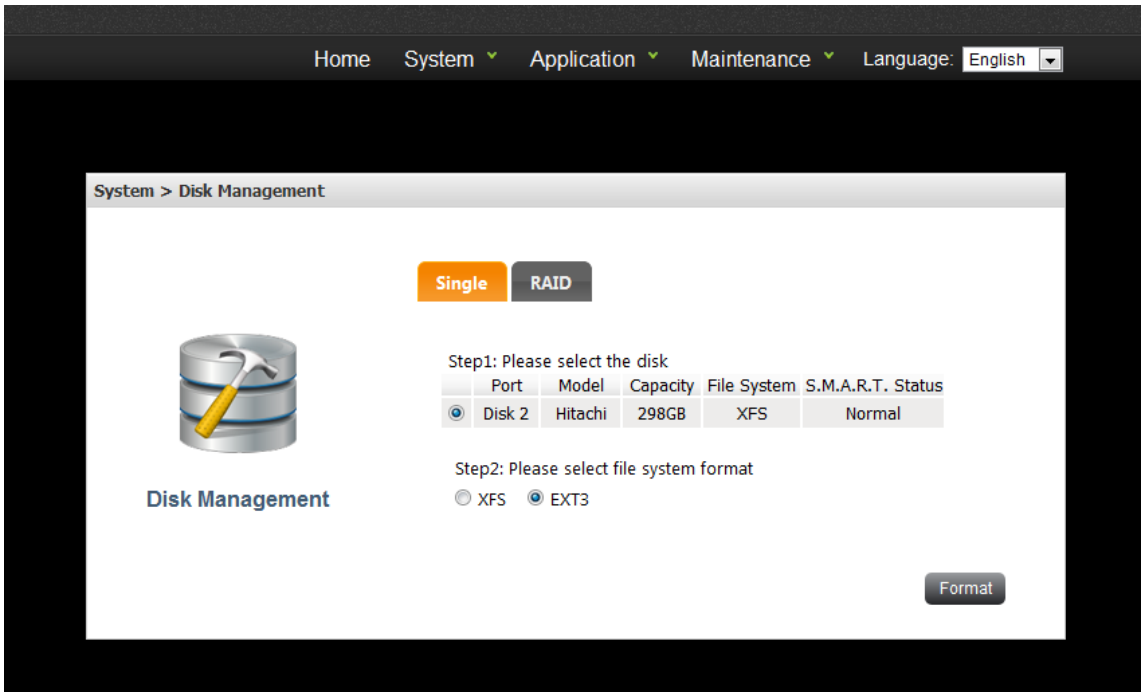
✓ External Storage Device

- ✧ Connect the USB device to the USB port of the NAS, when the device is successfully detected, the details are shown on this page.
- ✧ It may take tens of seconds for the NAS server to detect the external USB device successfully.
- ✧ Remove: safety remove external storage device

Disk Management

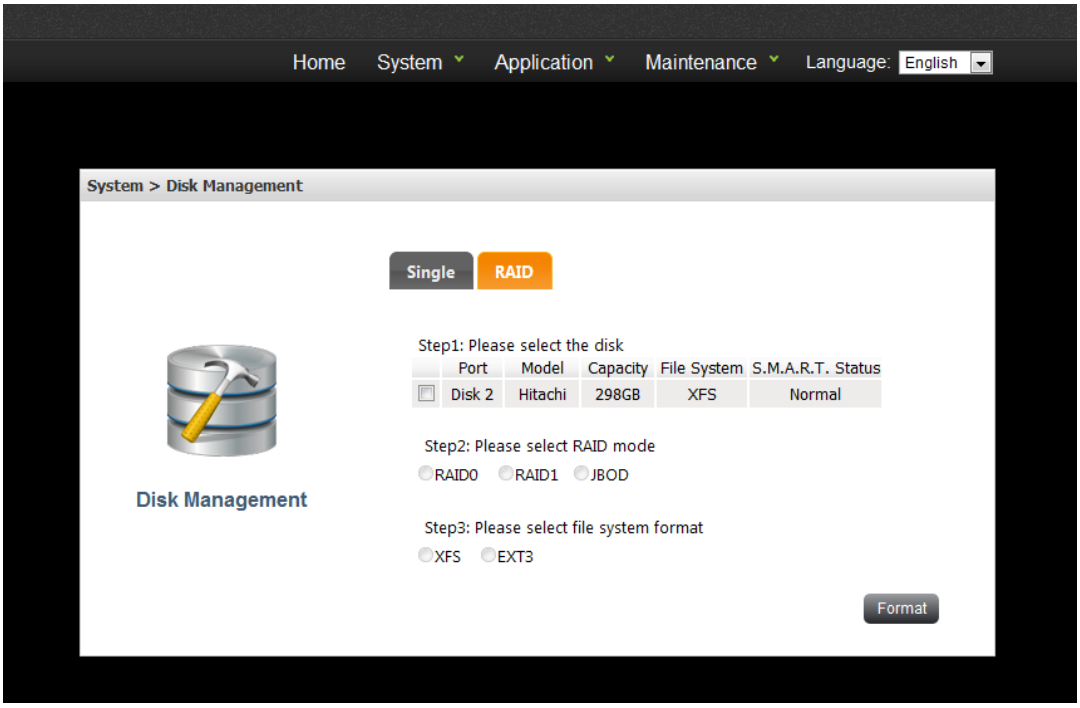
✓ Web configuration

i. Single Mode Tab



Format the internal storage device as XFS or EXT3 format.

ii. RAID Mode Tab



✧ **Select the disk which you are going to format.**

✧ **Select RAID Mode:**

- RAID 0

  RAID 0 combines 2 hard drives into one larger volume. The data is written to the hard drive without any parity information and no redundancy is offered.

  The total storage capacity of a RAID 0 is equal to the sum of the capacity of all member hard drives.

- RAID 1

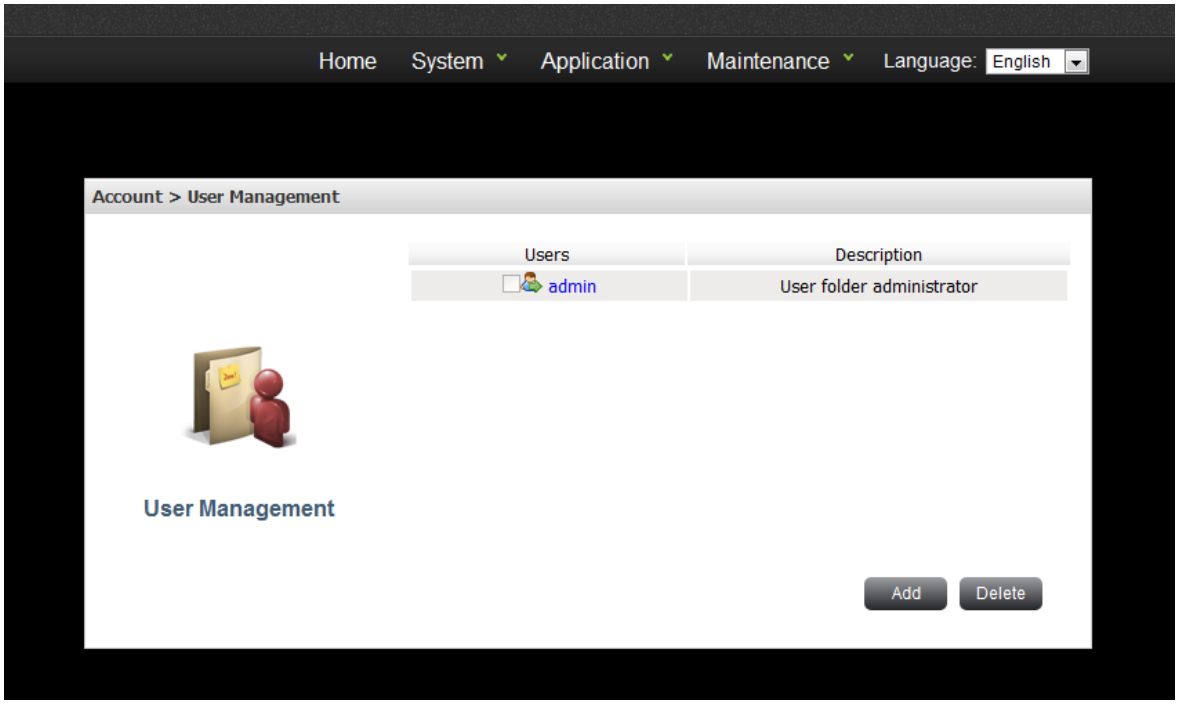
  RAID 1 duplicates the data between two hard drives to provide disk mirroring. The storage capacity of a RAID 1 is equal to the size of the smallest hard drive.

- JBOD

  JBOD is a collection of hard drive that does not offer any RAID protection. The data are written to the physical disks sequentially. The total storage capacity is equal to the sum of the capacity of all member hard drives.

✧ **Format the internal storage device as XFS or EXT3 format.**

Account Management



✓ User Management

Administrator can manage (add, modify, and delete) user accounts of NAS.

✓ Users

✧**admin**

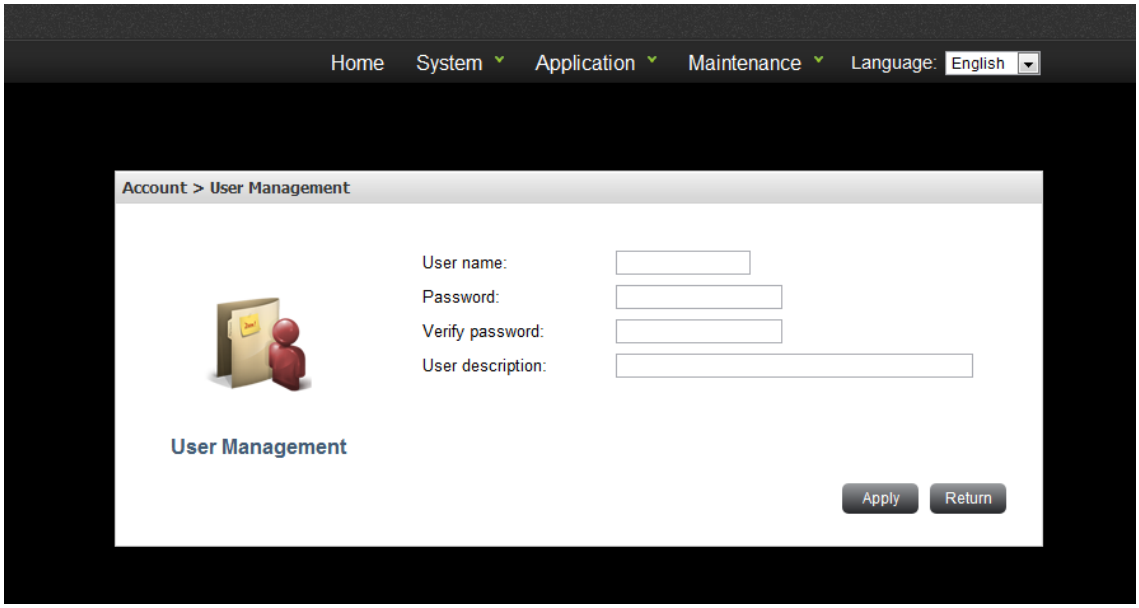
By default, the administrator “admin” has access right to the system administration and cannot be deleted.

✧**The number of Users**

The maximum of NAS users is 64

Add user

Press Add to create a user with name, password and description



- ✓ **The following information is required to create a new user:**
  - ✧ **User name**

    Input range: 1~15 characters.

    The invalid characters are: " / \ [ ] : ; | = , + * ? < > ` '
  - ✧ **Password**

    Input range: 5~20 characters.

    The invalid characters are: " / \ [ ] : ; | = , + * ? < > ` '
  - ✧ **User name**

    Input range: 1~50 characters.

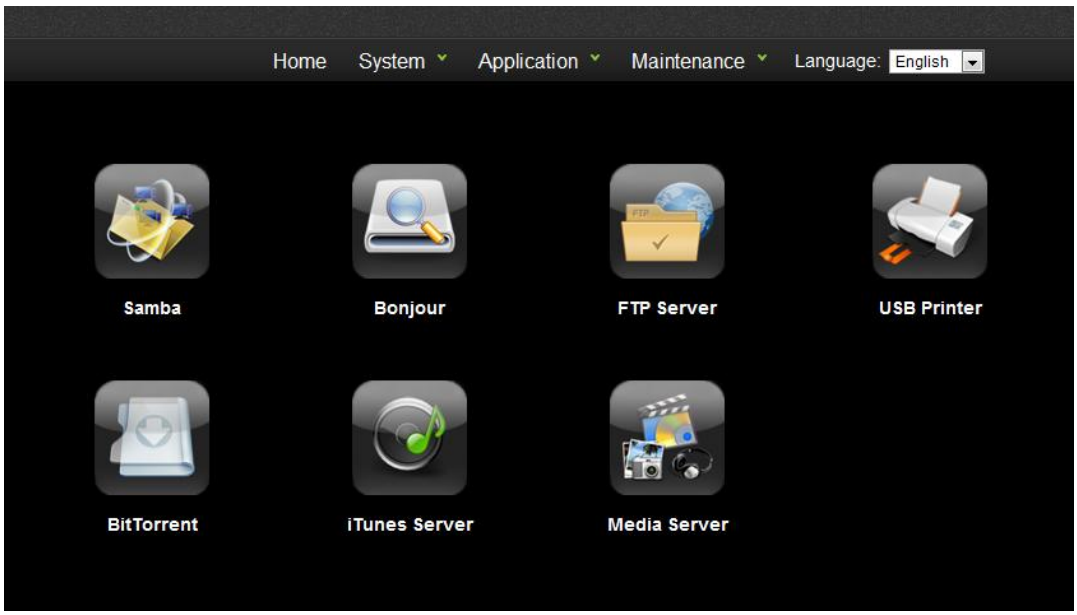
    The invalid characters are: " / \ [ ] : ; | = , + * ? < > ` '

- ✓ **The following information is required to delete a user:**
  - ✧ **Delete**

    Administrator can choose one user and delete it

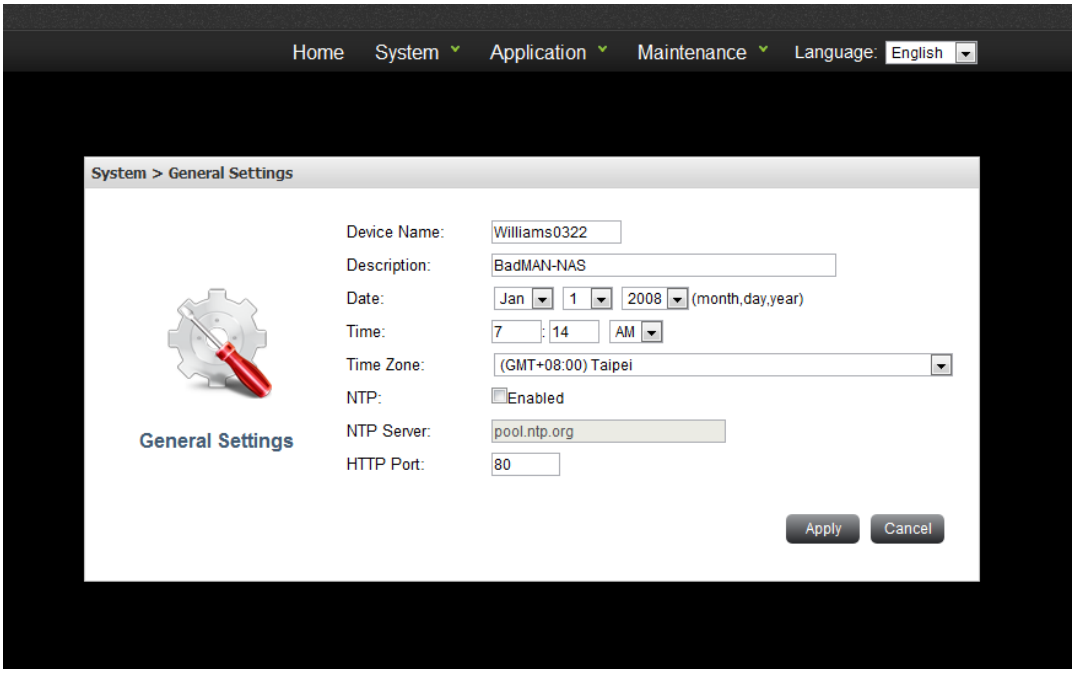
Chapter 4: Application

Application menu displays functions under this category.



Samba

Users can use Samba to download and upload files between NAS and client PCs. The supported OS of client PC is Windows 7, Windows Vista, Windows XP, Mac OS X, and Linux.



✓ File Structure

The root directory shared by Samba server contains:

✧admin: the private folder of the admin

- Photo: the private photo folder of the admin, user could connect this photo folder with their smart phone

  (ex: Http://ip/PhotoAlbum name/cache/xxx.jpg.thumb.jpg).

- Music: the private music folder of the admin, user could connect this music folder with their smart phone (ex: Http://ip/music/xxx.mp3).

- Video: the private video folder of the admin, user could connect this video folder with their smart phone (ex: Http://ip/video/xxx.avi).

Note: The App function should be supported by Goodman.

- USB_Backup: system will start usb backup after user press the backup button which is on the NAS.

✧home: the private folder of NAS users will be created under this folder

✧public: the public folder shared by all users

✓ User Behavior

✧admin: admin user can manage all the data in the Samba share.

✧user: a normal user can only access his private folder and the public folder.

✓ Web configuration

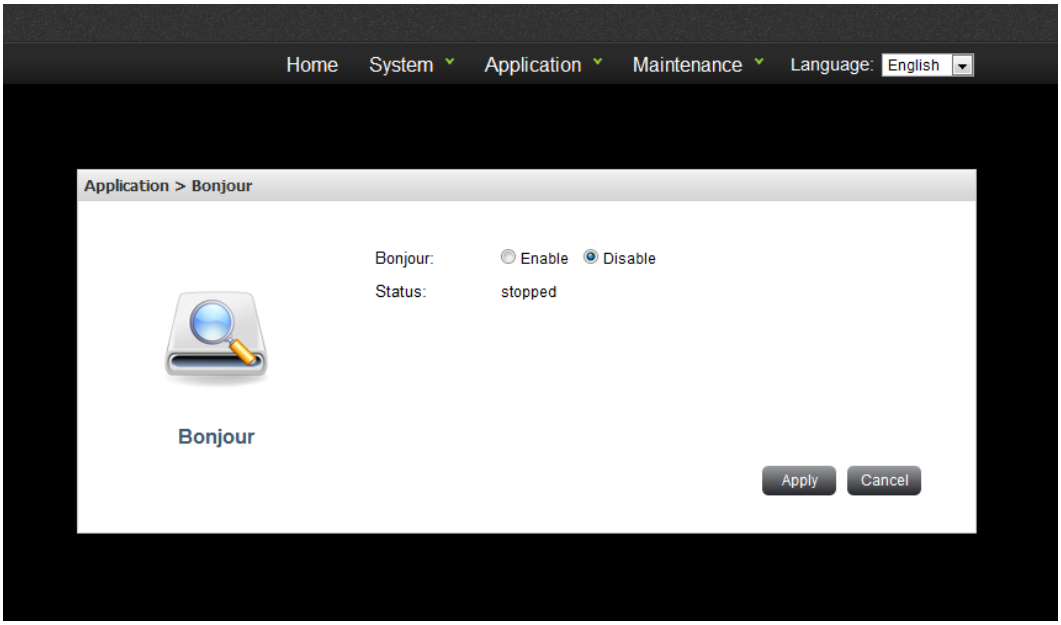
✧ Samba server: enable or disable the function.

✧ Work Group: the work group setting for Microsoft Windows network. The default value is "workgroup"

✧ S tatus: display current server status (running/stopped)

Bonjour

With Bonjour enabled, NAS will broadcast the HTTP and SMB services. Mac users can use "Finder" to discover the NAS samba share and use "Safari" to discover the NAS web page



✓ Samba Server: enable or disable the function

✓ Status: display current server status (running/stopped)

FTP Server

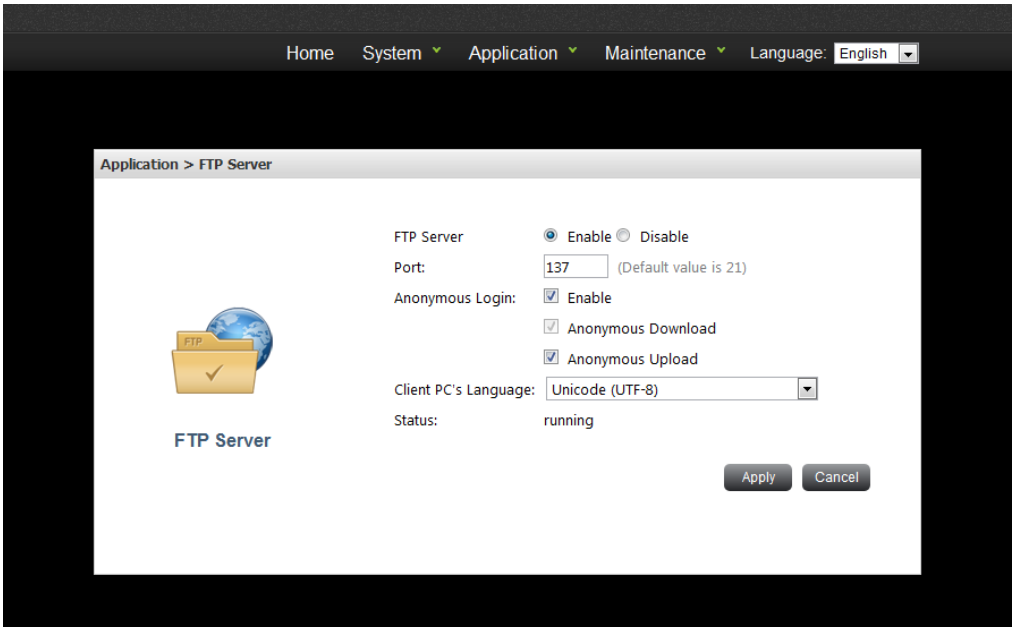
Users can use FTP to download and upload files between NAS and client PCs across the Internet.

✓ User Behavior

✧ admin: admin user can manage all the data in the Samba share.

✧ user: a normal user can only access his private folder and the public folder.

✓ Web configuration



✧ FTP Server: enable or disable the function

✧ Port: FTP server port, default value is 21, input range is 1~65535

✧ Anonymous login

You can enable anonymous login to allow users to access the FTP server of the NAS anonymously. If this option is disabled, the users must enter an authorized user name and password to access the server.

✧ Anonymous Update

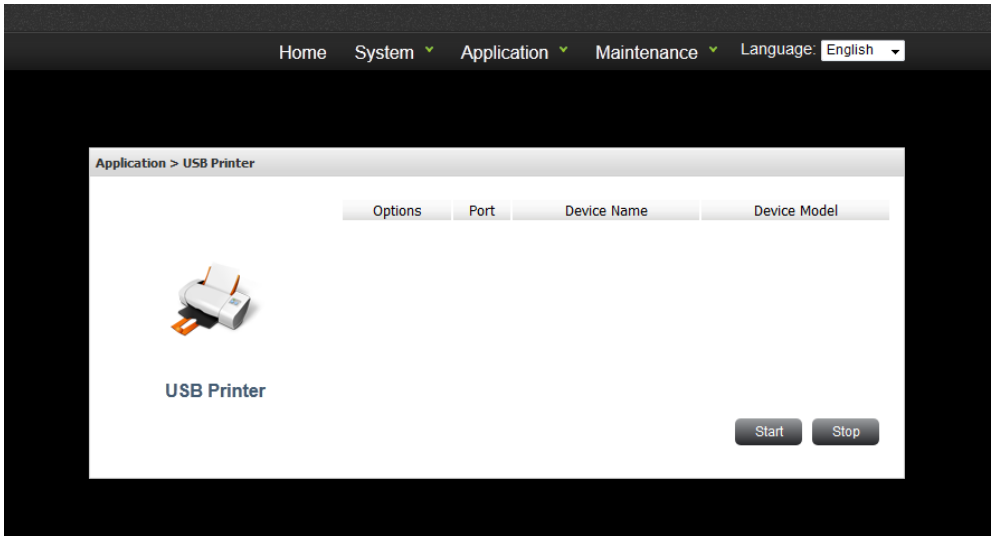
Let anonymous user to upload files from NAS by FTP

✧ Client PC Language: Support Unicode, Simplified Chinese, Traditional Chinese, and Japanese Charsets.

✧ Status: display current server status (running/stopped)

USB Printer

To provide printer sharing function for the network users, you can simply connect a USB printer to the USB port of the NAS. The NAS printer server only forwards data from users' PC to the printer. In this way, it means user should install the printer drivers in their PC in advance.



- ✓ **Options**

  Select the printer which you are going to start or stop

- ✓ **Port**

  Show which USB port is used

- ✓ **Device Name**

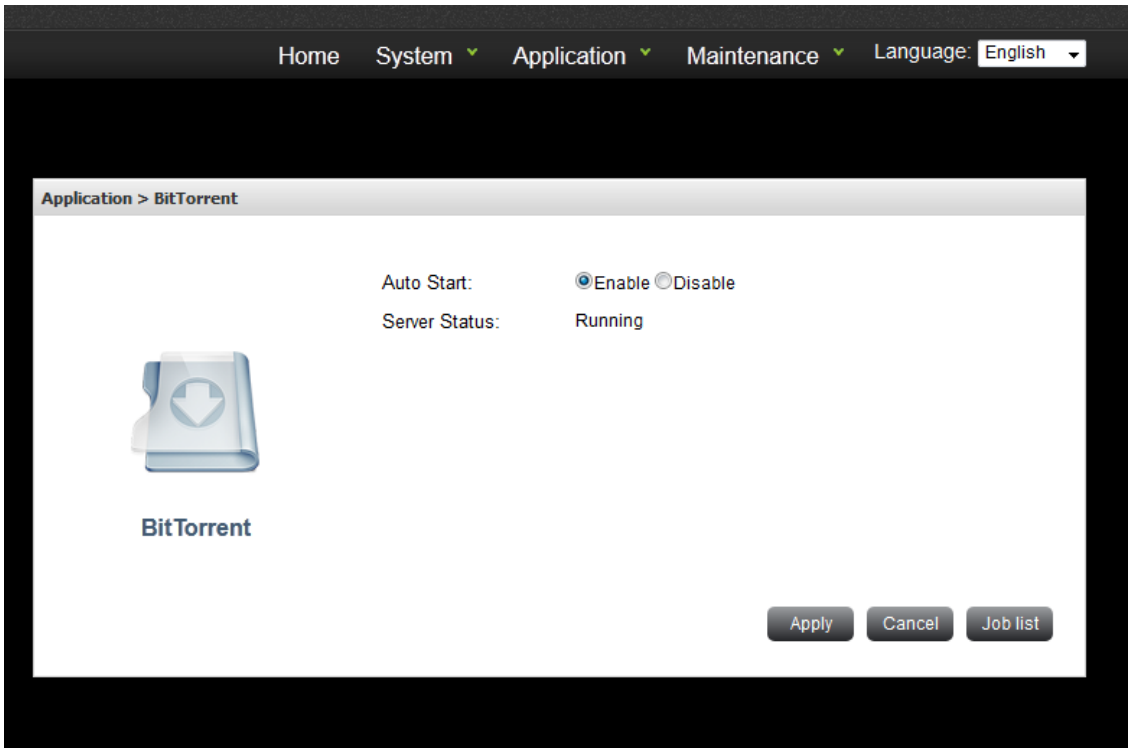
  Printer names

- ✓ **Device Model**

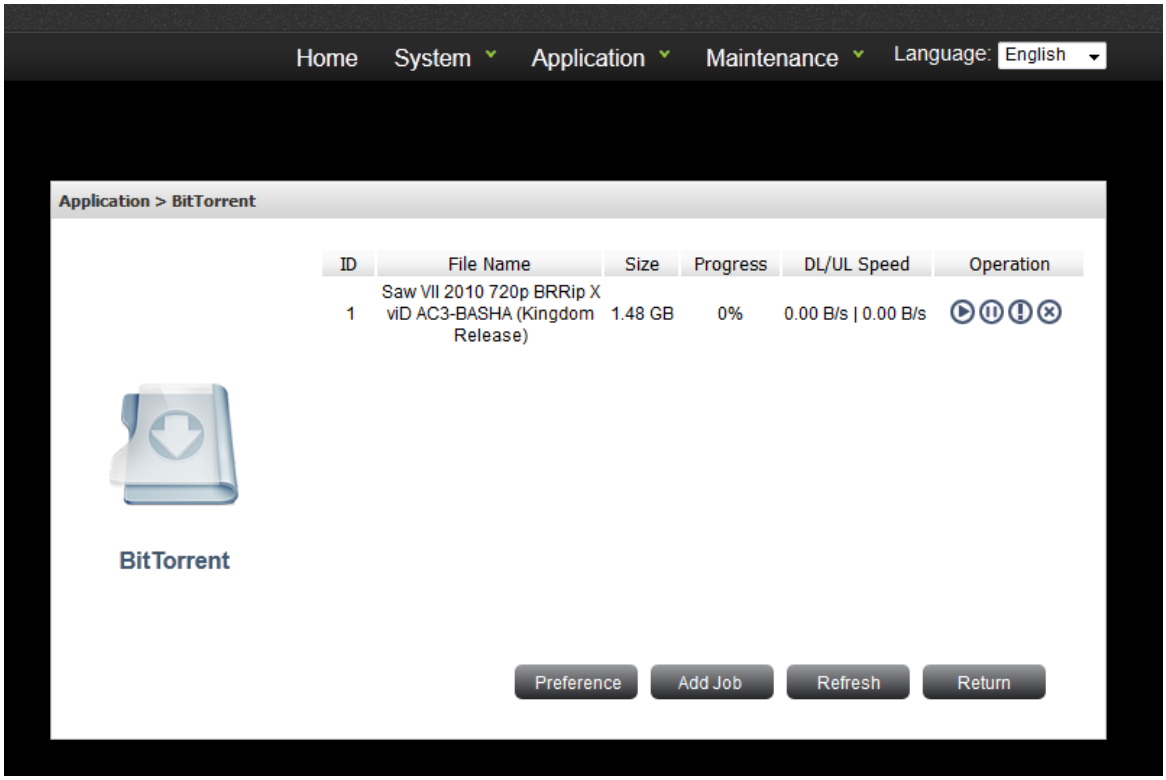
  Printer device model

BT Downloader

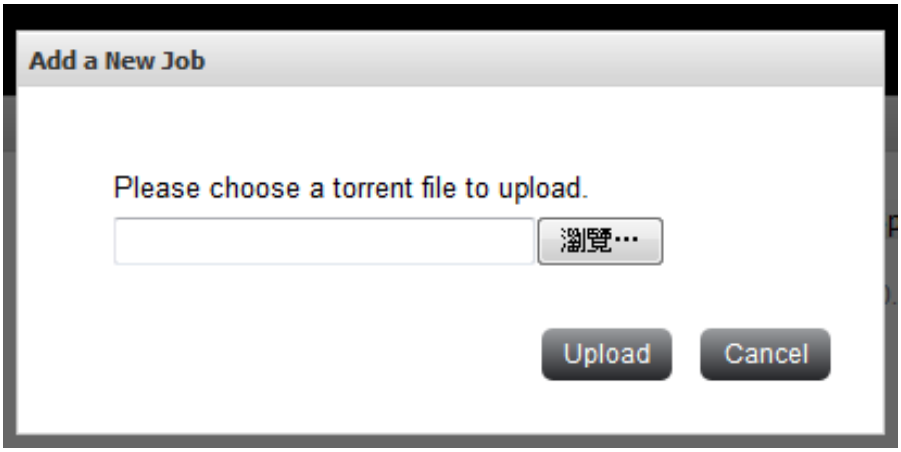
The NAS supports BT download. You can add download task to the NAS and let the server finish downloading independent of PC.



- ✓ **BitTorrent: enable or disable the function.**
- ✓ **Status: display current server status (running/stopped)**
- ✓ **Job List: display current torrent status**



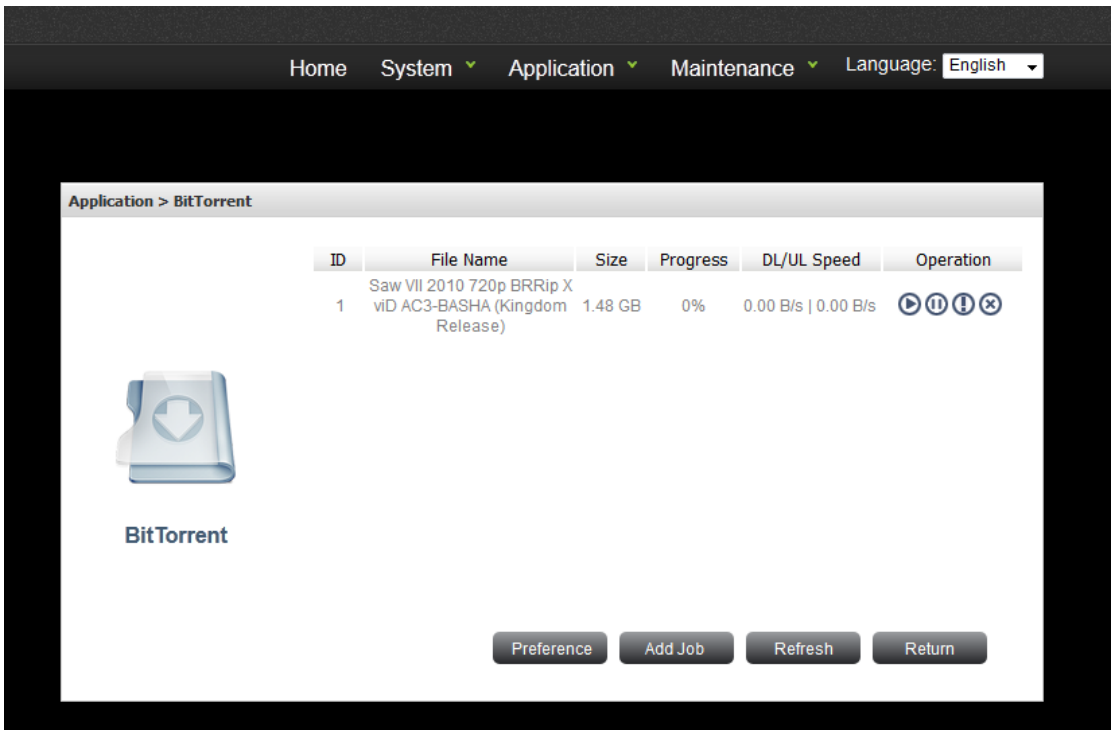
- ✓ **ID: The BT task number.**
- ✓ **File Name: BT Downloaded file name.**
- ✓ **Size: BT downloaded file size**
- ✓ **DL/UL speed: Download / Upload speed**
- ✓ **Operation:**
  - ✧Start: Start the BT task.
  - ✧Pause: Pause the BT task
  - ✧Info: The detail information of BT task
  - ✧Delete: Delete BT task
- ✓ **Go to "Applications" > " BitTorrent".**
- ✓ **Select "Add Job"**



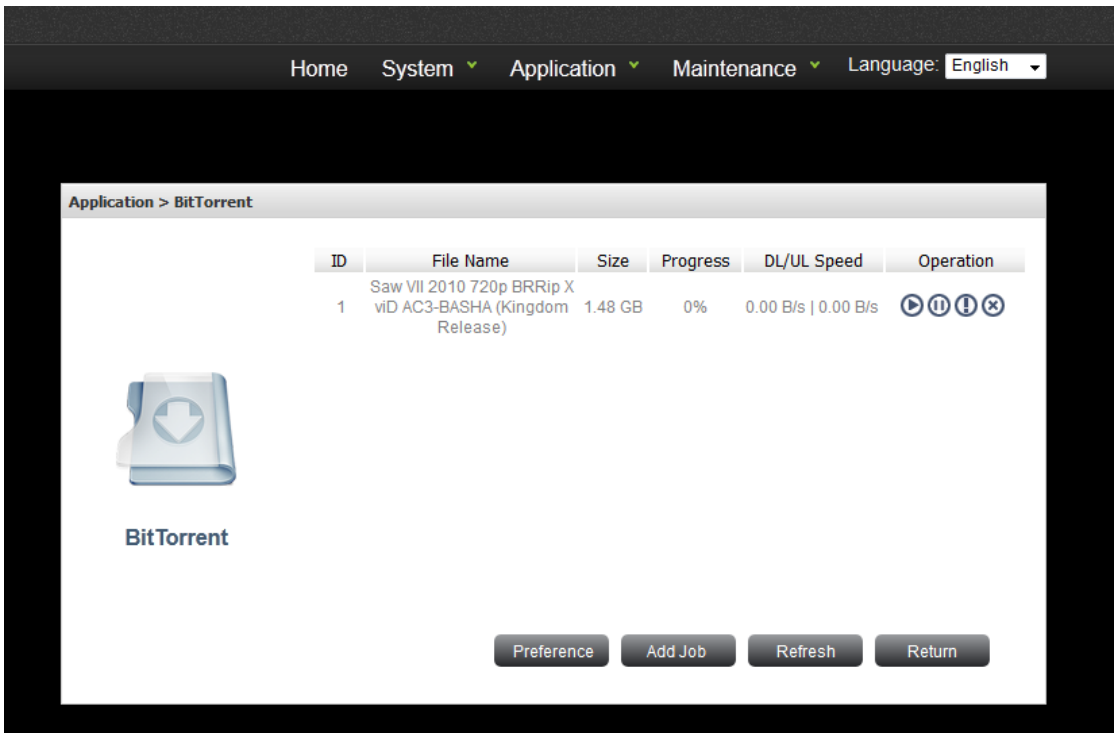
✧Add a new BT task

Click “Add Job” and upload a torrent file. You can download legal torrent files by searching on the Internet. Please download the torrent files to your local disk and then upload them to the NAS.

✓ **After uploading a download task, the task will appear on the List.**

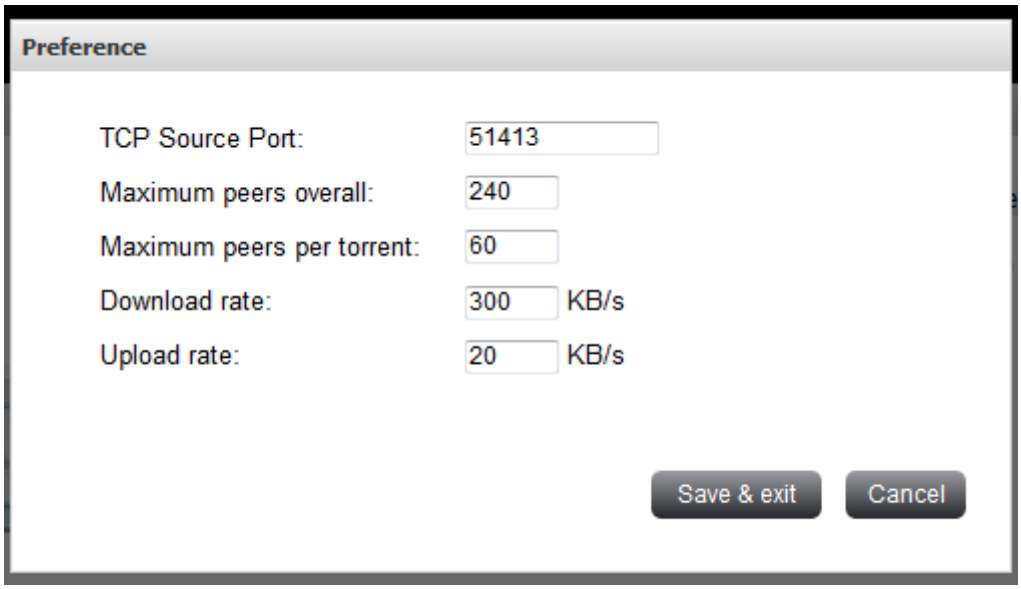


✓ **Press the Start button on the Operation and the BT task start download**



✓ Preference

User can set some BT parameters here to limit the connected peers or bandwidth



✧ Maximum peers overall: The total maximum number of connected peers. Default is 240.

✧ Maximum peers per torrent: The maximum number of connected peers per torrent. Default is 60.

✧ Download rate: The bandwidth of all BT downloading tasks. Default is 100. 0 is no limit.

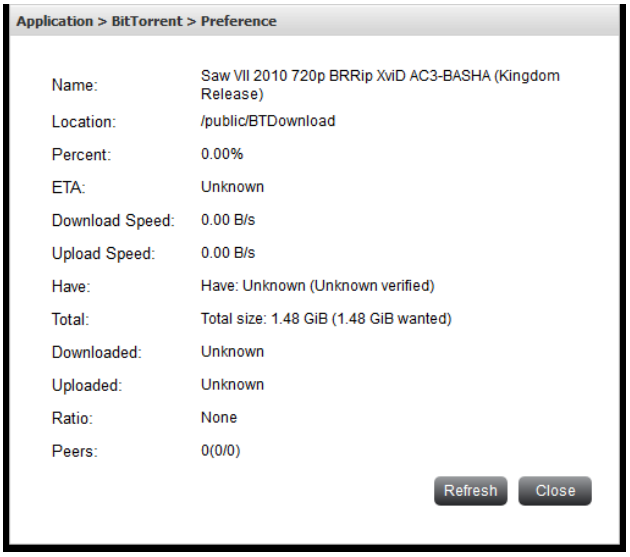
✧ Upload rate: The bandwidth of all BT uploading tasks. Default is 10. 0 is no limit.

✓ Refresh task information

User can use “Refresh” to get the latest status of all BT tasks.

✓ BT Task info

After user trigger the BT task info in operation, the following Job detail will be shown:



✧ Name: The downloaded BT file

✧ Location: The location of downloaded BT file, default is /public/BTDownload

✧ Percent: The completeness percentage of BT task

✧ Download speed: The download speed of BT task

✧ Upload speed: The upload speed of BT task

✧ Have: The downloaded BT file size

✧ Total: The Total BT file size

✧ Downloaded: The downloaded BT file size

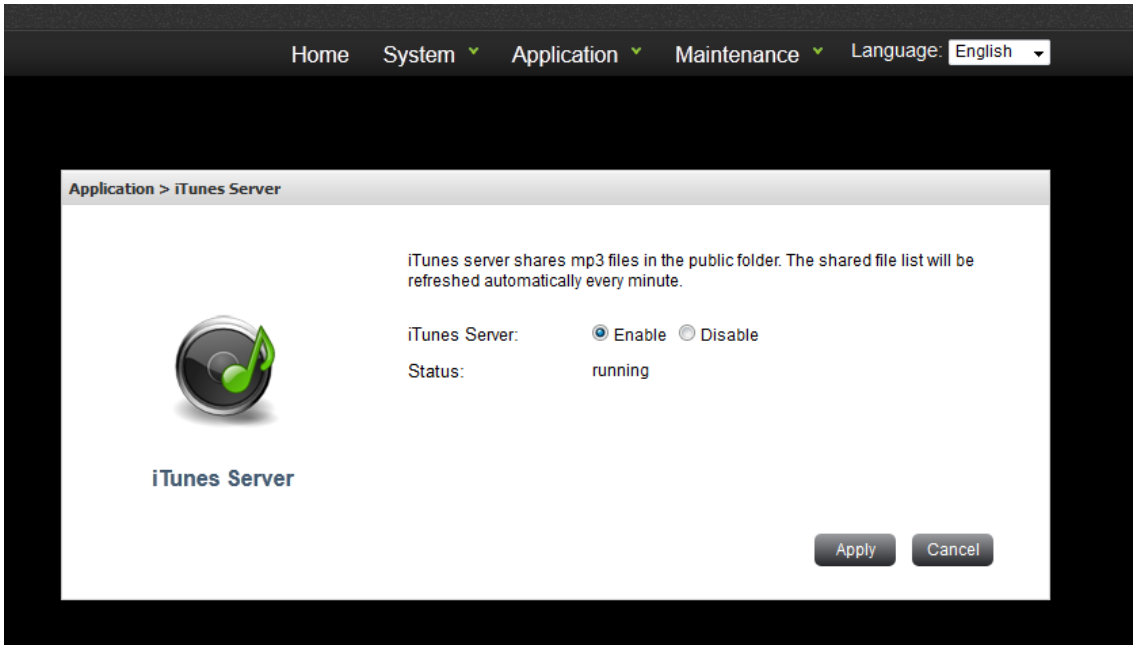
✧ Uploaded: The uploaded BT file size

✧ Ration: The ratio of Uploaded/Downloaded

✧ Peers: The connected number of peers

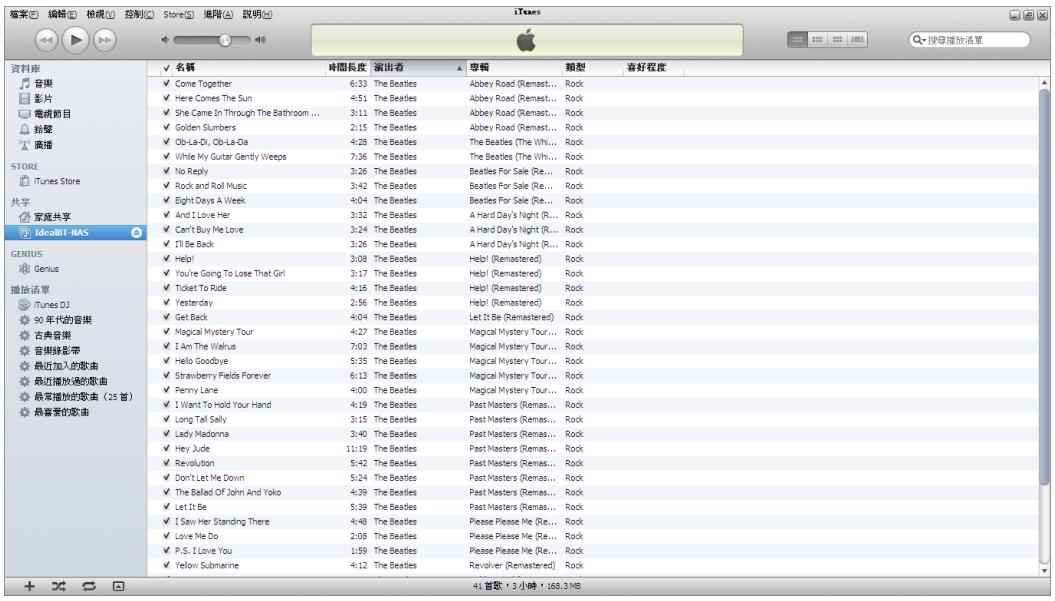
iTunes

iTunes server shares mp3 files in the public folder. The shared file list will be refreshed automatically every minute. Supported iTunes client versions are 9 and 10.5.1.



✧ iTunes Server: enable or disable the function

✧ Status: display current server status (running/stopped)

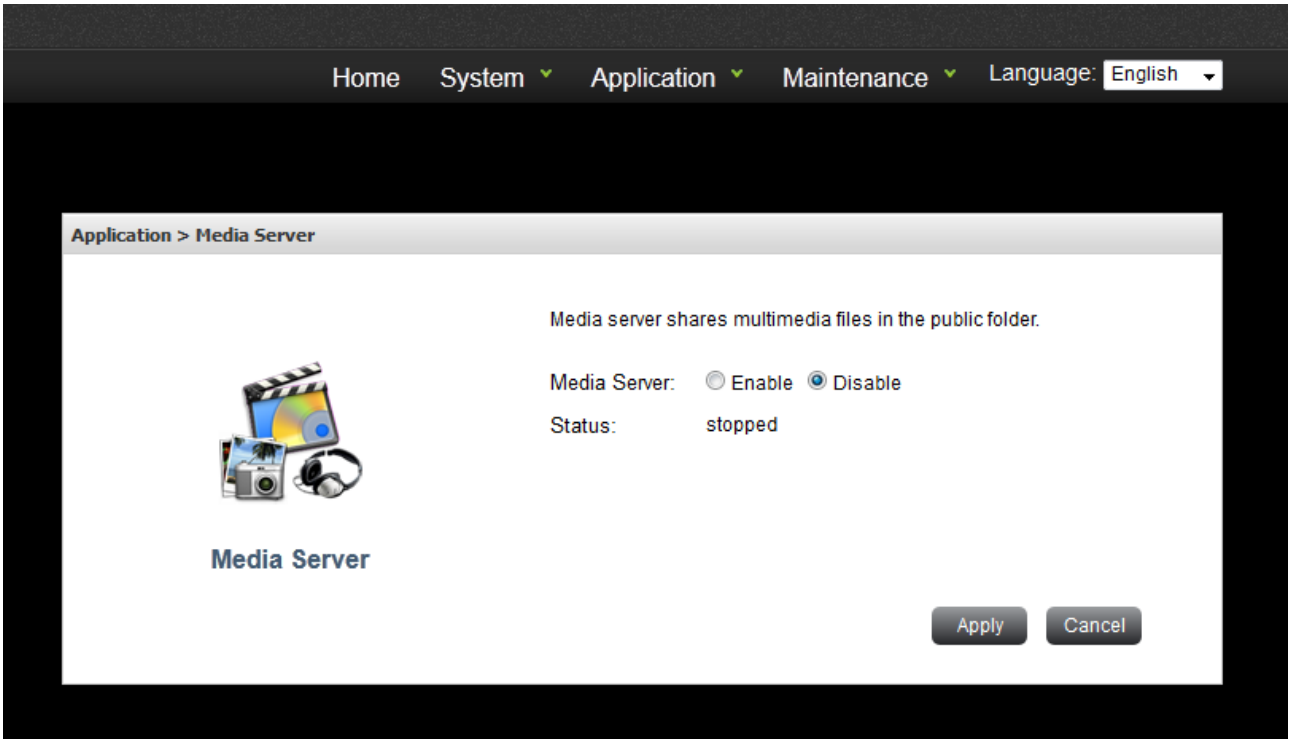

檔案(F) 編輯(E) 檢視(V) 控制(C) Store(S) 進階(A) 說明(H)
iTunes
搜尋播放清單
資料庫
音樂
影片
電視節目
錄聲
廣播
STORE
iTunes Store
共享
家庭共享
IdealBT-NAS
GENIUS
Genius
播放清單
iTunes DJ
90 年代的音樂
古典音樂
音樂錄影帶
最近加入的歌曲
最近播放過的歌曲
最常播放的歌曲（25 首）
最喜愛的歌曲
名稱 時間長度 演出者 專輯 類型 喜好程度
Come Together 6:33 The Beatles Abbey Road (Remast... Rock
Here Comes The Sun 4:51 The Beatles Abbey Road (Remast... Rock
She Came In Through The Bathroom ... 3:11 The Beatles Abbey Road (Remast... Rock
Golden Slumbers 2:15 The Beatles Abbey Road (Remast... Rock
Ob-La-Di, Ob-La-Da 4:28 The Beatles The Beatles (The Whi... Rock
While My Guitar Gently Weeps 7:36 The Beatles The Beatles (The Whi... Rock
No Reply 3:26 The Beatles Beatles For Sale (Re... Rock
Rock and Roll Music 3:42 The Beatles Beatles For Sale (Re... Rock
Eight Days A Week 4:04 The Beatles Beatles For Sale (Re... Rock
And I Love Her 3:32 The Beatles A Hard Day's Night (R... Rock
Can't Buy Me Love 3:24 The Beatles A Hard Day's Night (R... Rock
I'll Be Back 3:26 The Beatles A Hard Day's Night (R... Rock
Help! 3:08 The Beatles Help! (Remastered) Rock
You're Going To Lose That Girl 3:17 The Beatles Help! (Remastered) Rock
Ticket To Ride 4:16 The Beatles Help! (Remastered) Rock
Yesterday 2:56 The Beatles Help! (Remastered) Rock
Get Back 4:04 The Beatles Let It Be (Remastered) Rock
Magical Mystery Tour 4:27 The Beatles Magical Mystery Tour... Rock
I Am The Walrus 7:03 The Beatles Magical Mystery Tour... Rock
Hello Goodbye 3:35 The Beatles Magical Mystery Tour... Rock
Strawberry Fields Forever 6:13 The Beatles Magical Mystery Tour... Rock
Penny Lane 4:00 The Beatles Magical Mystery Tour... Rock
I Want To Hold Your Hand 4:19 The Beatles Past Masters (Remas... Rock
Long Tall Sally 3:15 The Beatles Past Masters (Remas... Rock
Lady Madonna 3:40 The Beatles Past Masters (Remas... Rock
Hey Jude 11:19 The Beatles Past Masters (Remas... Rock
Revolution 5:42 The Beatles Past Masters (Remas... Rock
Don't Let Me Down 5:24 The Beatles Past Masters (Remas... Rock
The Ballad Of John And Yoko 4:39 The Beatles Past Masters (Remas... Rock
Let It Be 5:39 The Beatles Past Masters (Remas... Rock
I Saw Her Standing There 4:48 The Beatles Please Please Me (Re... Rock
Love Me Do 2:08 The Beatles Please Please Me (Re... Rock
P.S. I Love You 1:59 The Beatles Please Please Me (Re... Rock
Yellow Submarine 4:12 The Beatles Revolver (Remastered) Rock
41 首歌，3 小時，168.3 MB

Media Server

Media server shares multimedia files in the public folder. The shared file list will be refreshed automatically every minute. Note that the media server is built from an open source software package, and it is not DLNA certificated. The benchmark MMP player is Nero Showtime 4 and PS3, and the referenced supported content formats are listed as follows.

i. Nero Showtime 4: wmv, avi, mpeg1, mpeg2, mpeg4, mp3, wma, jpg, png, gif

ii. PS3: avi, mp3, wma, jpg, png, gif

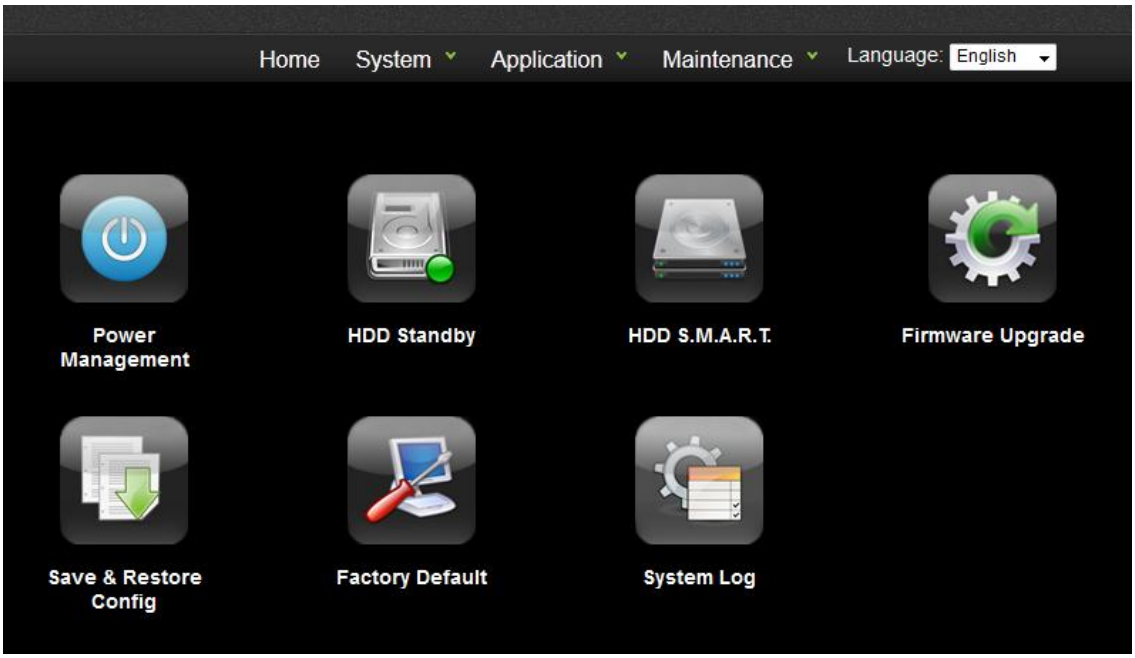


✧ Media Server: enable or disable the function

✧ Status: display current server status (running/stopped)

Chapter 5: Maintenance

Maintenance menu displays functions under this category.

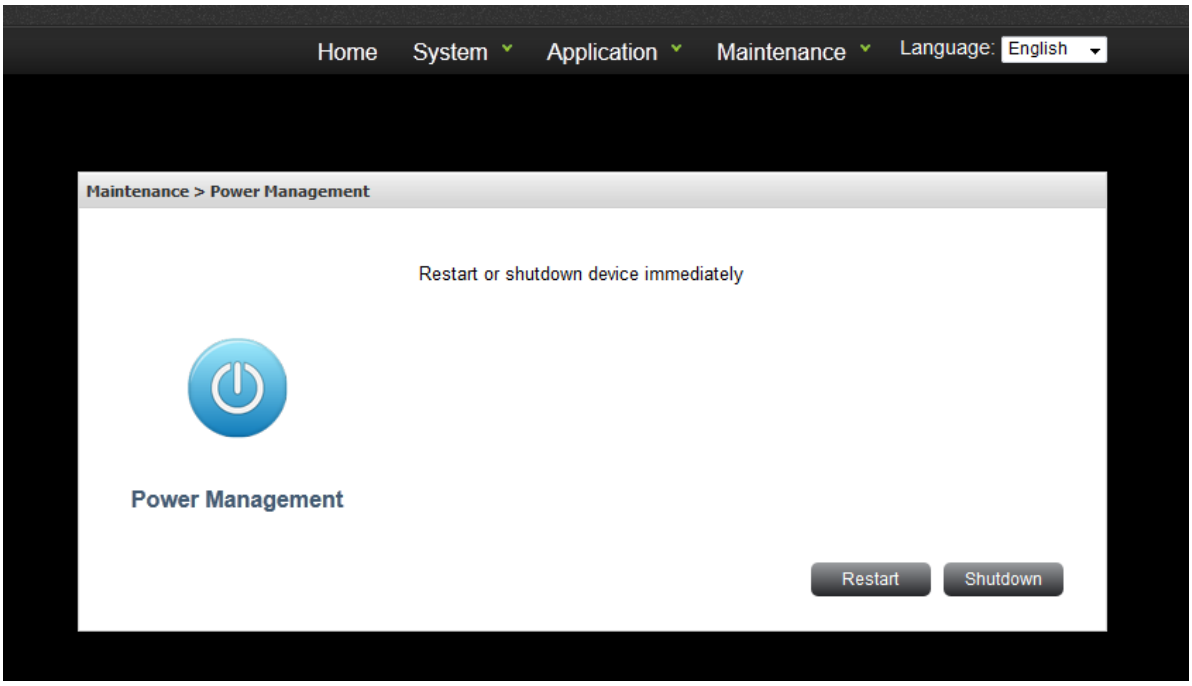


Power Management

Follow the steps below to restart or shut down the NAS.

i. Login the NAS. Go to “Maintenance” > “Power Management”.

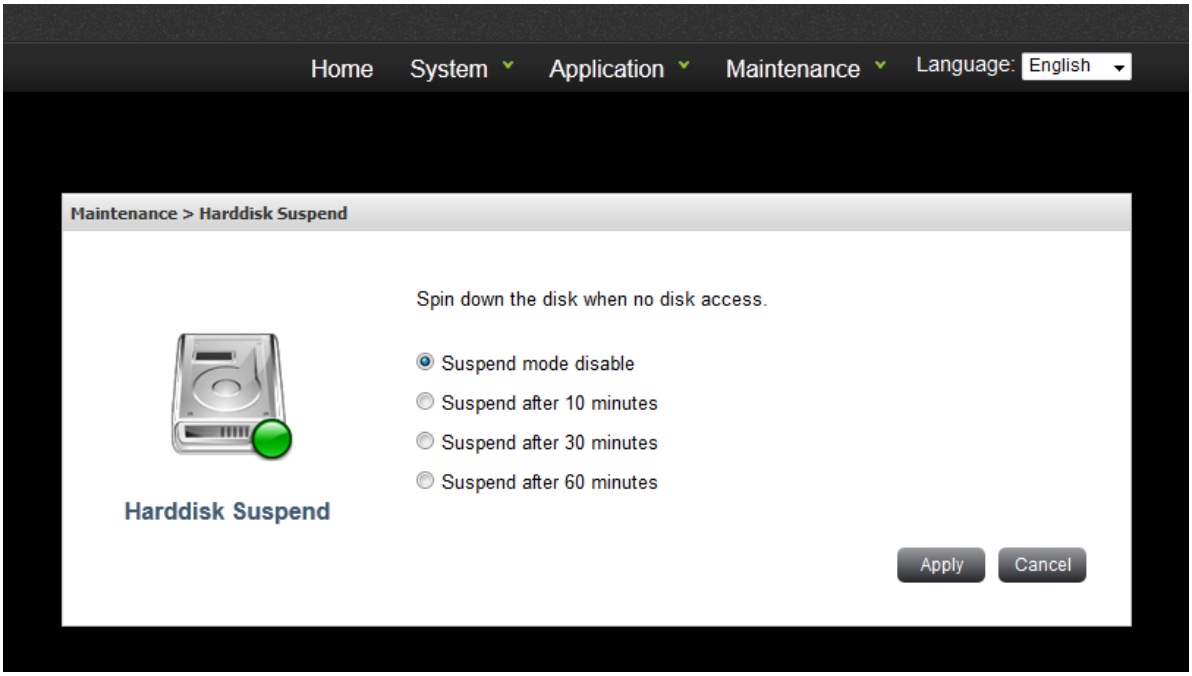
ii. Click “Restart” to reboot the server or “Shut Down” to turn off the server.



HDD suspend

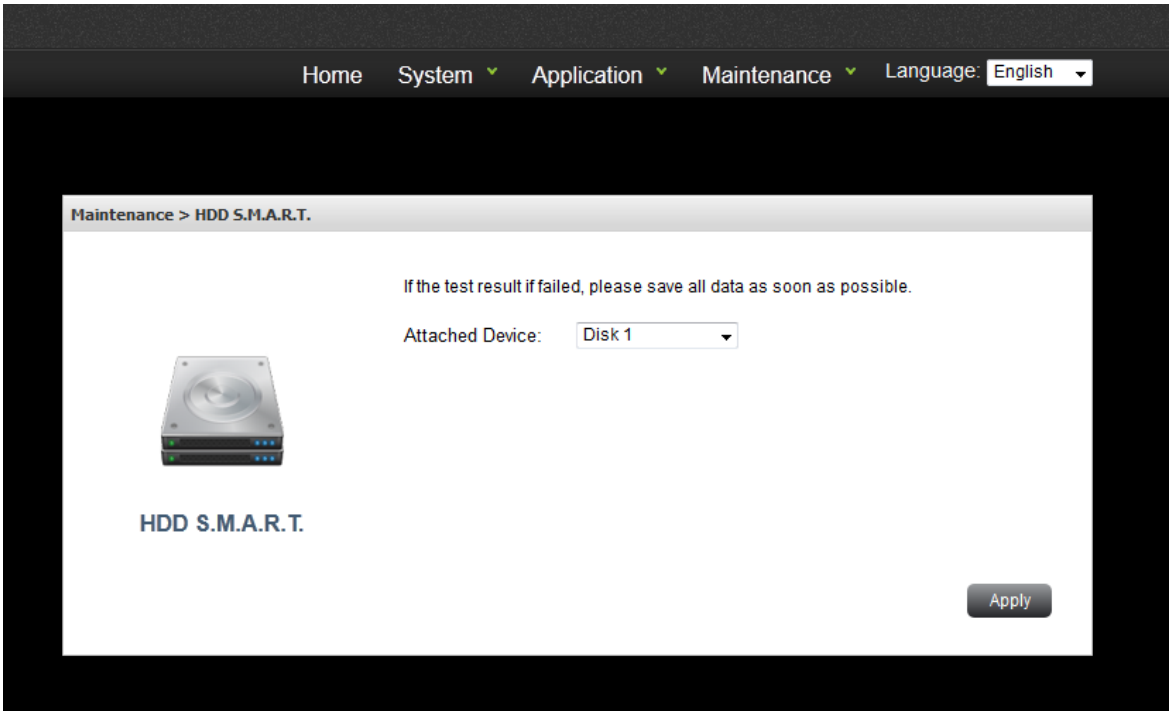
You can enable or disable the suspend functions of the NAS.

Select the time duration the HDD will enter standby mode.



HDD S.M.A.R.T

Monitor the hard disk drives (HDD) health, temperature, and the usage status by HDD S.M.A.R.T.



Maintenance > HDD S.M.A.R.T. Information

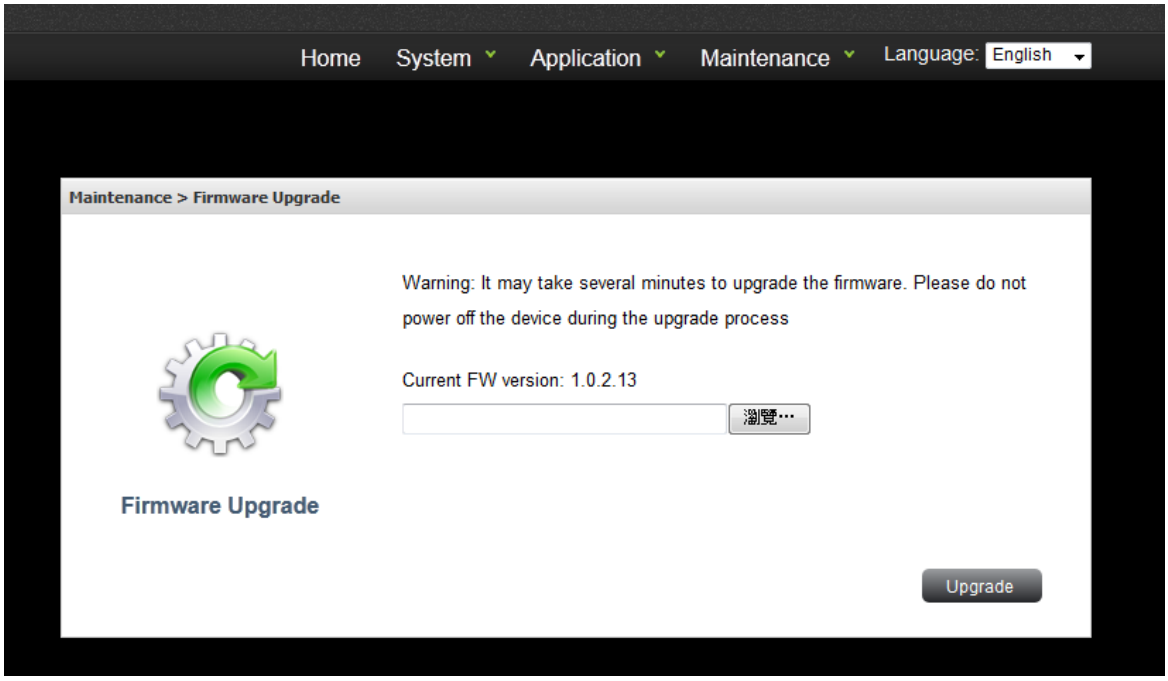
Smart Result: Passed

ID	ATTRIBUTE_NAME	FLAG	VALUE	WORST	THRESH	TYPE	UPDATED	WHEN_FAILED	RAW_VALUE
1	Raw_Read_Error_Rate	0x000b	100	100	050	Pre-fail	Always	-	0
2	Throughput_Performance	0x0005	100	100	050	Pre-fail	Offline	-	0
3	Spin_Up_Time	0x0027	100	100	001	Pre-fail	Always	-	1199
4	Start_Stop_Count	0x0032	100	100	000	Old_age	Always	-	41312
5	Reallocated_Sector_Ct	0x0033	100	100	050	Pre-fail	Always	-	202
7	Seek_Error_Rate	0x000b	100	100	050	Pre-fail	Always	-	0
8	Seek_Time_Performance	0x0005	100	100	050	Pre-fail	Offline	-	0
9	Power_On_Hours	0x0032	092	092	000	Old_age	Always	-	3585
10	Spin_Retry_Count	0x0033	253	100	030	Pre-fail	Always	-	0
12	Power_Cycle_Count	0x0032	100	100	000	Old_age	Always	-	1005
191	G-Sense_Error_Rate	0x0032	100	100	000	Old_age	Always	-	4
192	Power-Off_Retract_Count	0x0032	100	100	000	Old_age	Always	-	465
193	Load_Cycle_Count	0x0032	071	071	000	Old_age	Always	-	290954
194	Temperature_Celsius	0x0022	100	100	000	Old_age	Always	-	32
196	Reallocated_Event_Count	0x0032	100	100	000	Old_age	Always	-	2
197	Current_Pending_Sector	0x0032	100	100	000	Old_age	Always	-	0
198	Offline_Uncorrectable	0x0030	100	100	000	Old_age	Offline	-	12
199	UDMA_CRC_Error_Count	0x0032	200	200	000	Old_age	Always	-	32
220	Disk_Shift	0x0002	100	100	000	Old_age	Always	-	15
222	Loaded_Hours	0x0032	097	097	000	Old_age	Always	-	1417
223	Load_Retry_Count	0x0032	100	100	000	Old_age	Always	-	0
224	Load_Friction	0x0022	100	100	000	Old_age	Always	-	0
226	Load-in_Time	0x0026	100	100	000	Old_age	Always	-	323
240	Head_Flying_Hours	0x0001	100	100	001	Pre-fail	Offline	-	0

Firmware Upgrade

- ✓ **Whenever a new firmware released, we can upgrade the NAS firmware from here.**
- ✓ **The system update may take tens of seconds to several minutes to complete depending on the network connection status. Please wait patiently. The system will inform you when system update is completed.**

Note: Synchronize with an Internet time server automatically.

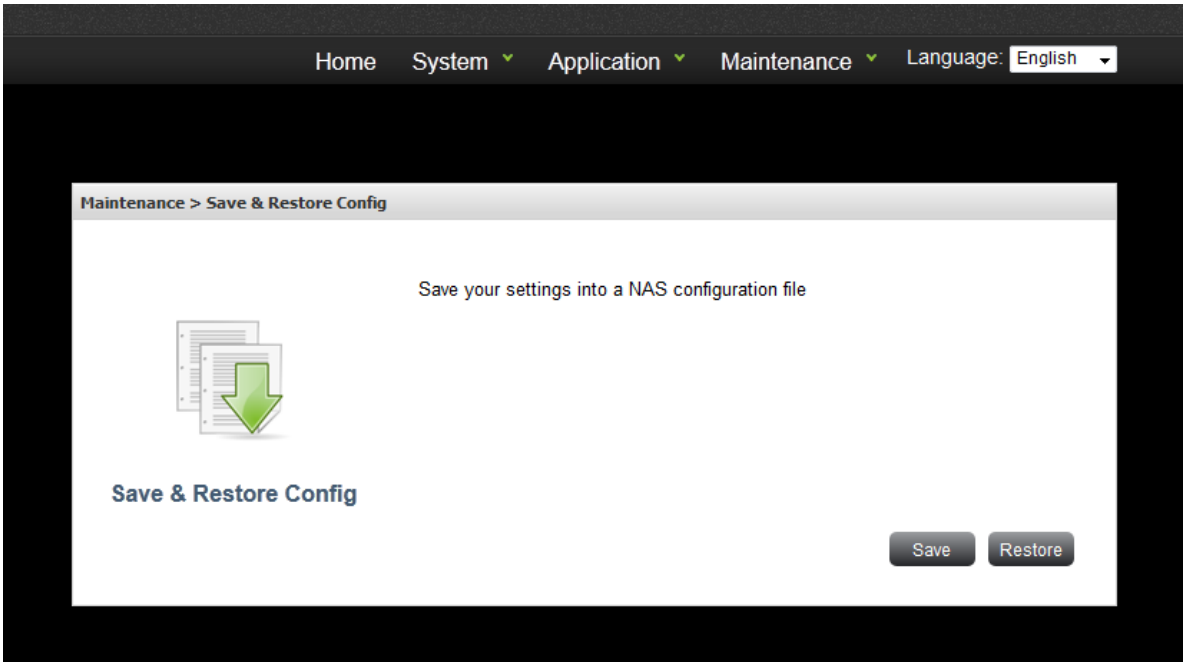


Save & Restore Config

Here allow us to backup the setting we've set for future use. (Including the settings in LAN, System, and service settings)

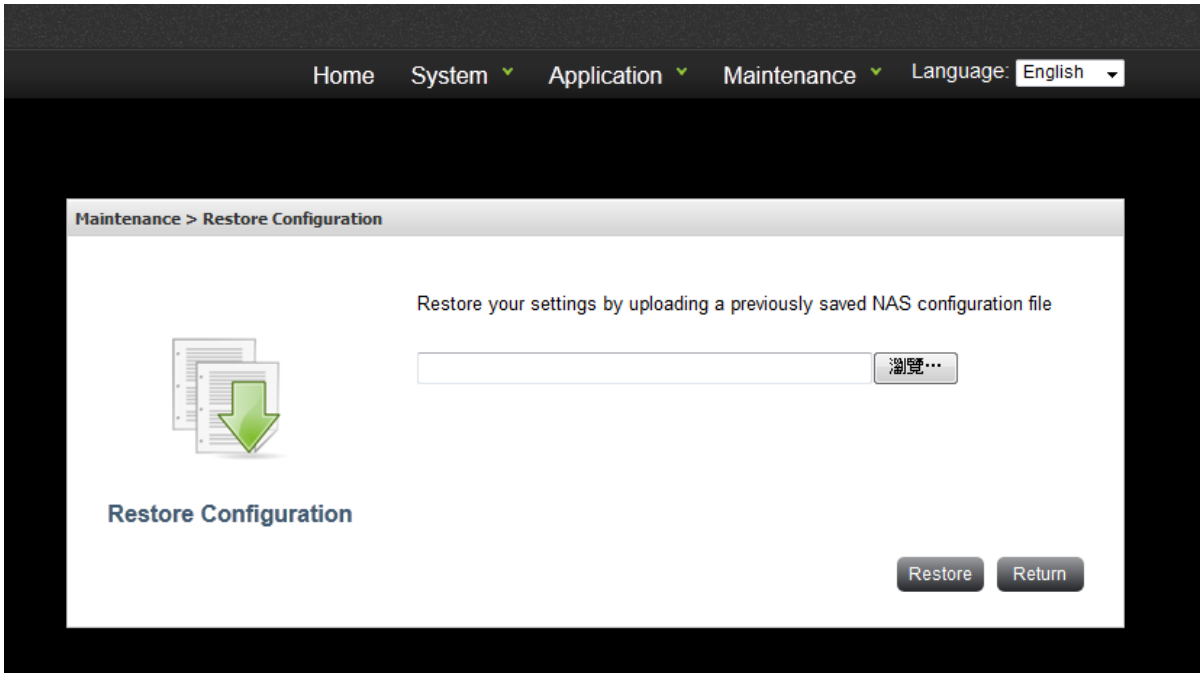
- ✓ **To back up the settings, including server name, the settings in LAN, System, and service settings etc., click "Save" and select to save the setting config.**
- ✓ **Items which will be saved:**

System	Item
General Settings	
	Language
	Device Name
	Description
	NTP Status
	NTP Server
	HTTP Port
Network Settings	
	Protocol
	IP Address
	Subnet Mask
	Default Gateway
	Primary DNS
	Secondary DNS
Application	Item
Samba	
	Server
	Workgroup
Bonjour	
	Server
FTP	
	Server
	FTP Port
	Download Rate
	Upload Rate
BT	
	Server
	TCP Source Port
	Maximum peers overall
	Maximum peers per torrent
	Download rate
	Upload rate
iTunes	
	Server
Media	
	Server



✓ **To restore the settings, click "Restore", click "Browse" to select a previously saved setting config and click "Restore" again.**

Note: User can not shutdown the NAS during Restore.

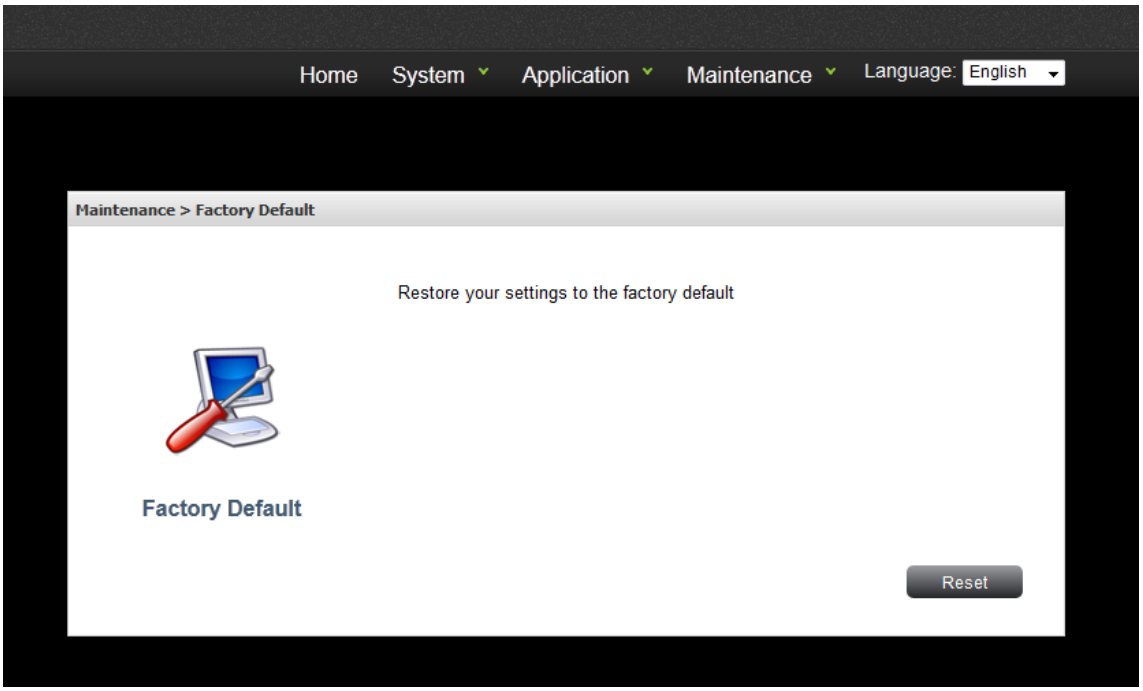


Factory Default

- ✓ **To reset the settings to default, click "Default Setting".**
- ✓ **NAS will be reboot for the new setting to be effective.**
- ✓ **When you press "Default Setting" on this page, all the system settings are cleared and restored to default. Please make sure you have backed up all the system settings before resetting the NAS.**
- ✓ **Items which will be reset to default:**

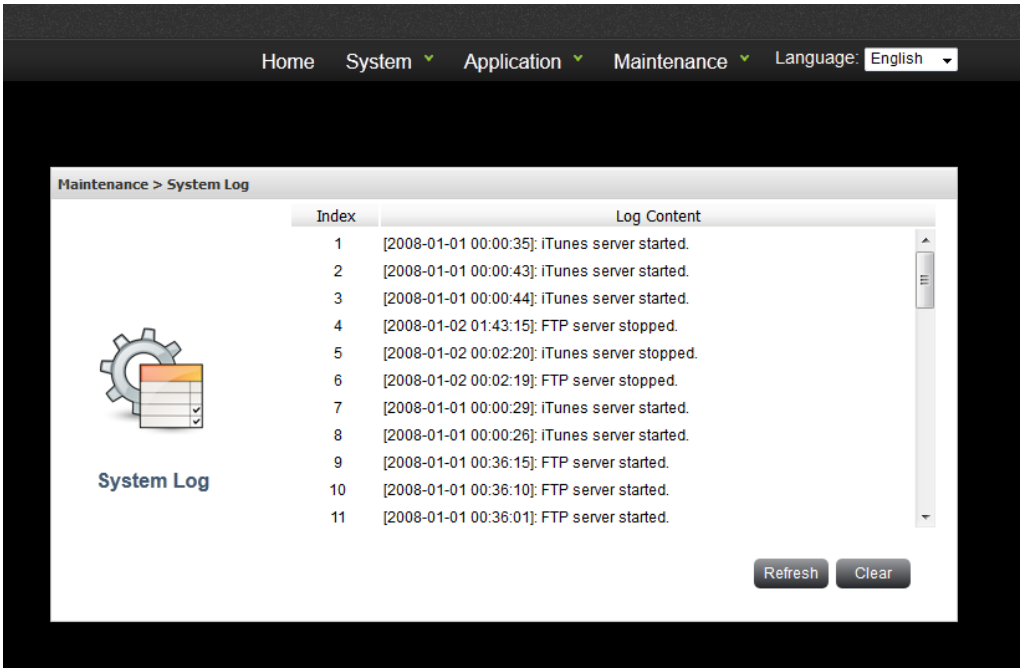
System	Item	Default Value
General Settings		
	Language	English
	Device Name	GOODMAN-NAS
	Description	GOODMAN-NAS
	Time Zone	(GMT+08:00) Taipei
	NTP Status	Enable
	NTP Server	pool.ntp.org
	HTTP Port	80
Network Settings		
	Protocol	DHCP
	IP Address	192.168.16.1
	Subnet Mask	255.255.255.0
	Default Gateway	192.168.16.1
	Primary DNS	168.95.192.1
	Secondary DNS	168.95.1.1
Application	Item	Default Value
Samba		
	Server	Enabled
	Workgroup	WORKGROUP
Bonjour		
	Server	Enabled
FTP		
	Server	Enabled
	FTP Port	21
	Anonymous Login	Disable
	Client PC's Languaga	Unicode (UTF-8)
BT		
	Server	Enabled
	TCP Source Port	51413
	Maximum peers overall	240
	Maximum peers per torrent	60

	Download rate	300
	Upload rate	20
iTunes		
	Server	Enabled
Media		
	Server	Enabled



System Log

✓ **The NAS can store 50 recent event logs, including warning, error, and information messages.**



Log type	Detail	Message
System start	Date/time	System start at mm/dd/yyyy, time
NTP	Date/time	Use NTP to synchronize date & time successfully
NIC 1 get DHCP/Fix IP	Date/time & IP	NIC 1 get DHCP/Fix (IP.192.xxx.xxx) at mm/dd/yyyy, time
FTP Start/Stop	Date/time	FTP server started/Stop
iTunes Start/Stop	Date/time	iTunes server started/Stop
Media Start/Stop	Date/time	UPnP media server started/Stop

Chapter 6: GPIO

Definition

Location	Meaning	Color	Status	Explanation
D2 SATA1 HDD Display LED	System Status + HDD 0 Status	Blue	Slow flashing	Boot up,Linux OS has not booted up yet.
			Light on	When Linux OS is ready,user can use this device.
			Flashing	When HDD0 is reading and writing data.
D3 SATA2 HDD Display LED	System Status + HDD 0 Status	Blue	Slow flashing	Boot up,Linux OS has not booted up yet.
			Light on	When Linux OS is ready,user can use this device
			Flashing	When HDD0 is reading and writing data.
D8	USB Host detect	Orange	Light on	When the USB Device inserts to USB Port 1 (P3) or Port 2 (P1)
			Flashing	When the USB Device is reading and writing data
D1	LAN	Green	Light on	Not connecting to internet is light off. Connecting to internet is light on.
D1	LAN	Green	Flashing	Internet data reading and writing is flashing.

Enjoy the use of your Conceptronic NAS!