

QNAP Turbo NAS

(: **3.3.0**)

2010 QNAP Systems, Inc. .

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2009–2010. QNAP Systems, Inc. .

“ / QNAP Systems, Inc. (QNAP) 가 . ” QNAP . QNAP . QNAP . QNAP . QNAP

NAS



FCC 15 B

가

TV (

)

가

가

/TV

가

()



B

1.2

	가
	,
	가

1.3

1. NAS 0 -40 0%-95%
2. NAS (100W, 90-264V)
3. 가 NAS 가
4. NAS NAS
5. NAS
6. NAS
7. NAS 가
8. NAS
9. NAS
- 10.
11. NAS
12. NAS IT



가

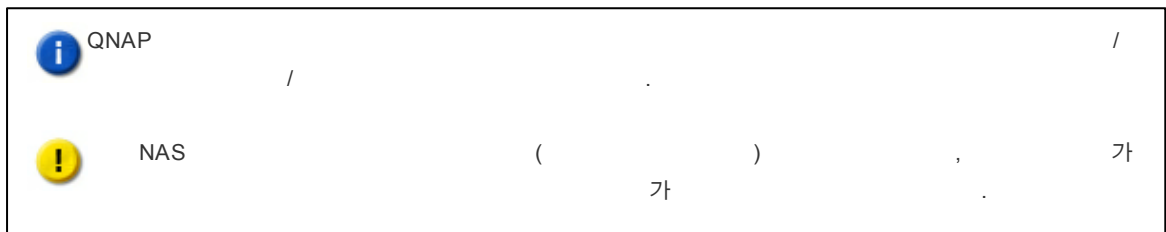
가

2. NAS



2.1

2.5" / 3.5" SATA HDD
<http://www.qnap.com/>



2.2

LED

LED		LED	
	/	0.5 가	1) NAS가 2) NAS가 3) 가 4) RAID 5) RAID 6) RAID
			1) 가 2) 3) 4) 가 (TS- 119 .) 5) (/) 6) 가 7) NAS가 (2 가 RAID 5 RAID 6 가) 8) ()
		0.5	NAS가 (가 RAID 1, RAID 5 RAID 6)
		0.5	1) NAS가 2) NAS가 3) 가
			NAS가
			NAS가

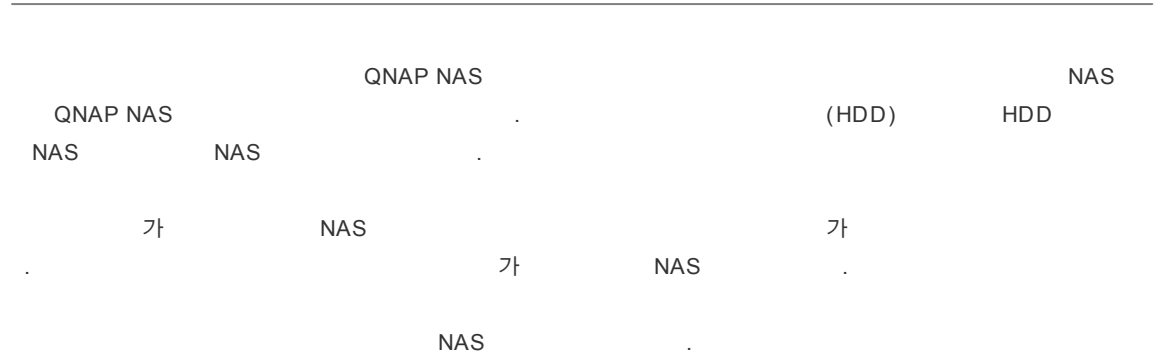
LED		LED	
LAN			NAS가
			NAS가
HDD	/		가 / 가
			/
			가
			가
USB		0.5	1) USB USB 가
			2) USB USB 가 NAS
			3) NAS USB USB
			4) 가 USB/eSATA ()
			1) USB 가 ()).
			2) NAS가 USB USB ()
			USB
eSATA*			eSATA 가
			eSATA

* TS-210, TS-219, TS-439U-SP/RP, TS-809 Pro, TS-809U-RP eSATA

(“ ” > “ ” .)

(0.5)	1	1) NAS가 2) NAS가 () 3) 가 NAS 4) 가
(0.5)	3	가 NAS USB 가 가 .
(0.5), (1.5)	3 , 5	가 (TS-119 .)
(1.5)	2	1) 2) 3) NAS 가 4) 가 HDD
	1	1) NAS가 () 2) NAS가

2.3



NAS	NAS		
	TS-x10/ TS-x19	TS-x39/ 509/ 809 SS-x39	TS-x59
TS-x10/ TS-x19	*	*	
TS-x39/ 509/ 809 SS-x39	*	*	
TS-x59	*	*	

* 가

! : , 가 IT 가

1. NAS HDD .
2. HDD NAS NAS HDD .
3. HDD NAS() . HDD가 .
4. (QIG) NAS .
5. NAS (: admin, : admin).
6. NAS , .
7. 'Start Migrating()' . NAS가 .

, QIG NAS .

가 . NAS

- Windows AD
- QPKG 가 (XDove).

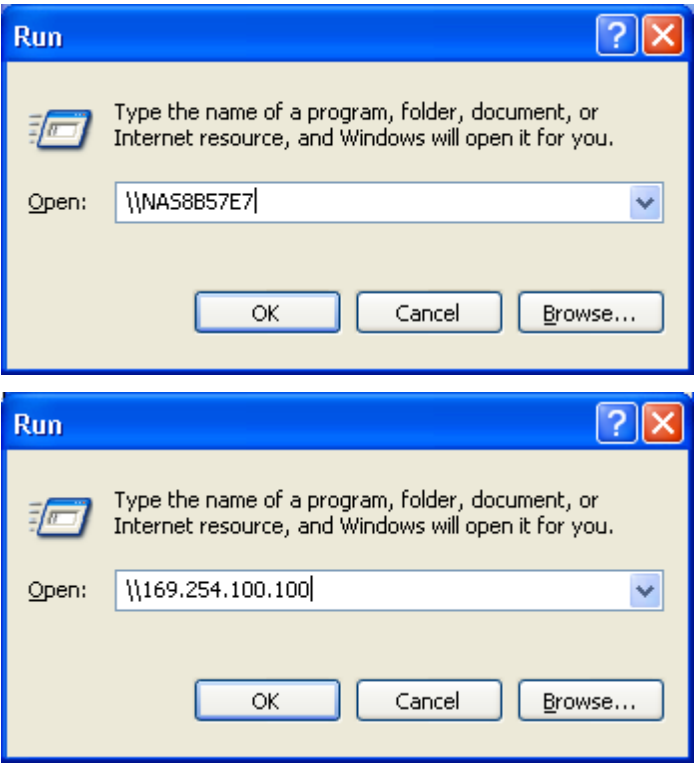
3. NAS

 15
NAS 

3.1

Windows

1. NAS :
 - a. NAS ,
NAS . NAS ,
 - b. Windows . \\[NAS name] \\[NAS IP] NAS



2.

	: admin
	: admin

3.

Mac

1. 'Go' (가) > 'Connect to Server' ()
2. 가 :
 - AFP: NAS IP afp://NAS_IP
 - SMB: smb://NAS_IP NAS_
169.254.100.100 smb://169.254.100.100
3. 'Connect' ()

Linux

mount -t nfs <NAS IP>:/<Network Share Name> <Directory to Mount>

, NAS IP 가 192.168.0.1 /mnt/pub “ (public) ”

mount -t nfs 192.168.0.1:/public /mnt/pub

:	“ (root) ”
---	------------

id

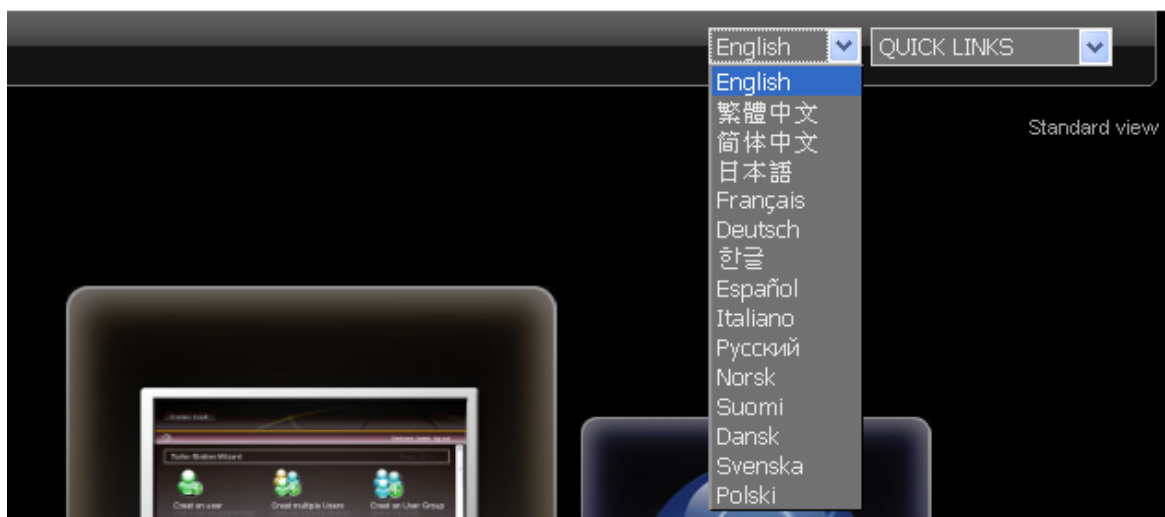
3.2 NAS

Windows Mac NAS

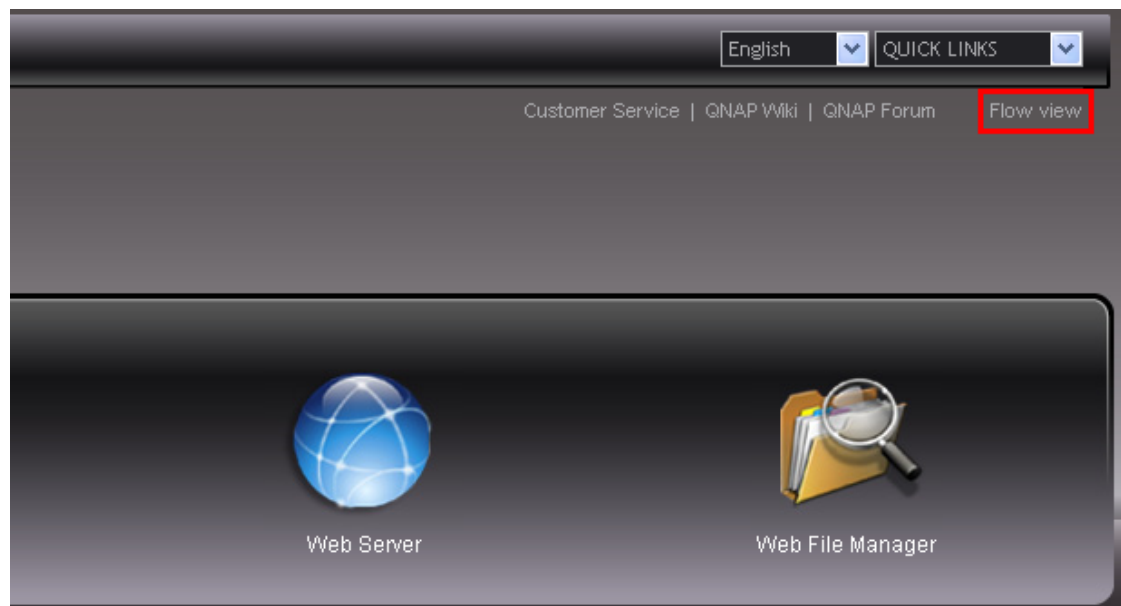
1. NAS :
 - a. NAS Finder .
 - b. [http://\[NAS IP\]:8080](http://[NAS IP]:8080) .

:	NAS IP	169.254.100.100:8080	.	NAS	DHCP	Finder
	NAS IP		.	NAS가	Finder	
	NAS IP		,	NAS	Finder	.

2. NAS 가 “ ” .



3. NAS UI



4. NAS 가 “ ”


: admin : admin



5. NAS SSL

“SSL”

: NAS NAT 443	NAS LAN IP	NAS , NAT
------------------	------------	-----------



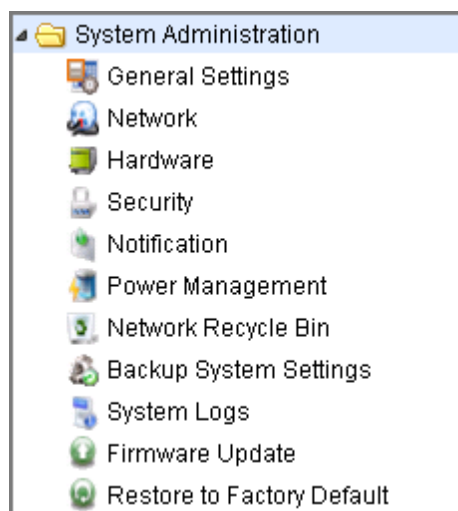
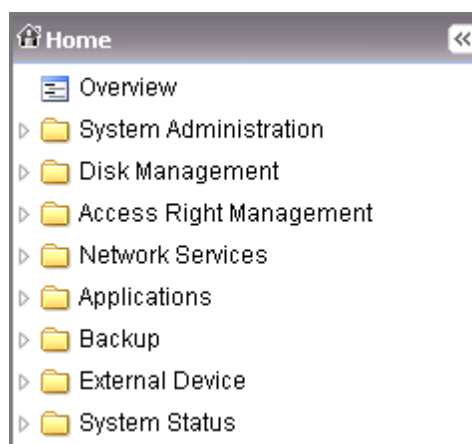
User Name

Password

☐ Remember user name
☐ Remember password
☒ SSL login

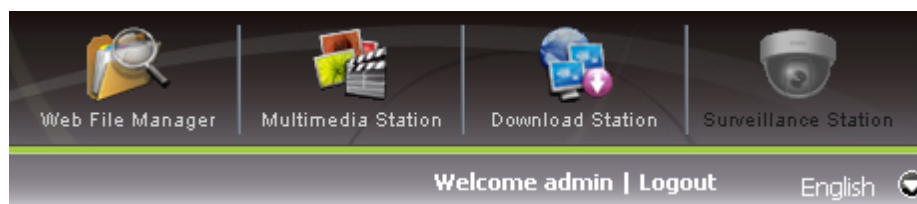
4.

8





NAS



23
27
38
41
44
47
49
50
51
54
59

4.1.1

NAS 14 (-)
(.)

General Settings

SYSTEM ADMINISTRATION
DATE AND TIME
DAYLIGHT SAVING TIME
LANGUAGE
PASSWORD STRENGTH

System Administration

Server Name: NAS8CBC6C

System Port: 8080

☒ Enable Secure Connection (SSL)

Port Number: 443

☐ Force secure connection (SSL) only

Note: After enabling the "Force secure connection (SSL) only" option, the Web Administration can only be connected via https.

APPLY

8080

System Administration, Web File Manager, Multimedia Station Download Station

(SSL)
가 https NAS (SSL)
" (SSL) " https

가

-
-

'Update now()'

NTP ()

NAS가

: NTP 가

SYSTEM ADMINISTRATION	DATE AND TIME	DAYLIGHT SAVING TIME	LANGUAGE	PASSWORD STRENGTH
Date and Time				
Time Zone: (GMT+08:00) Taipei ▼				
Date/Time: 2010/6/8 ▼ / 10 ▼ : 29 ▼ : 36 ▼ 24HR ▼ Date Format: yyyy/MM/DD ▼				
Set the server time the same as your computer time UPDATE NOW				
<input type="checkbox"/> Synchronize with an internet time server automatically				
Server: pool.ntp.org UPDATE NOW				
Time Interval: 1 day(s) ▼				
APPLY				

(DST)
“ ”
“ ”
DST
DST
DST

SYSTEM ADMINISTRATION	DATE AND TIME	DAYLIGHT SAVING TIME	LANGUAGE	PASSWORD STRENGTH
Daylight Saving Time				
Time Zone: (GMT+08:00) Taipei				
Recent daylight saving time: Start time: --				
End time: --				
Offset: -- minutes				
<input checked="" type="checkbox"/> Adjust system clock automatically for daylight saving time.				
<input type="checkbox"/> Enable customized daylight saving time table.				
APPLY				

가
“ ”
“ ”
가 ”
“ ”

<input checked="" type="checkbox"/> Adjust system clock automatically for daylight saving time.				
<input checked="" type="checkbox"/> Enable customized daylight saving time table.				
APPLY				
Customized Daylight Saving Time Tables				
Add Daylight Saving Time Data				
<input type="checkbox"/>	Start Time	End Time	Offset	Action
Delete				

NAS가

: NAS	. FTP	PC
OS(, Windows 95/98/ME)	,	가
OS		

SYSTEM ADMINISTRATION	DATE AND TIME	DAYLIGHT SAVING TIME	LANGUAGE	PASSWORD STRENGTH
-----------------------	---------------	----------------------	----------	-------------------

Language

Filename Encoding:

APPLY

SYSTEM ADMINISTRATION	DATE AND TIME	DAYLIGHT SAVING TIME	LANGUAGE	PASSWORD STRENGTH
-----------------------	---------------	----------------------	----------	-------------------

Password Strength


- ☒ 1. The new password contains characters from at least three of the following classes: lower case letters, upper case letters, digits, and special characters.
- ☒ 2. No character in the new password may be repeated more than three times consecutively.
- ☒ 3. The new password must not be the same as the associated username, or the username reversed.

APPLY

4.1.2

TCP/IP

(i) IP

NAS TCP/IP 

LAN NAS , TCP/

IP . NAS IP

IP * . Finder NAS IP 1 IP LAN 1





2 IP LAN 2 LAN (iii)

* TS-110, TS-119, TS-210, TS-219, TS-219P 가 LAN LAN

Network

TCP / IP **DDNS** **IPv6**

IP Address

Interface	DHCP	IP Address	Subnet Mask	Gateway	MAC Address	Speed	MTU	Link	Edit
Ethernet 1	Yes	0.0.0.0	0.0.0.0	0.0.0.0	00:08:9B:8C:BC:6C	100Mbps	1500		
Ethernet 2	Yes	0.0.0.0	0.0.0.0	0.0.0.0	00:08:9B:8C:BC:6D	100Mbps	1500		

Default Gateway

Use the settings from: **Ethernet 1**

Port Trunking

Port Trunking provides network load balancing and fault tolerance by combining two Ethernet interfaces into one to increase the bandwidth beyond the limits of any one single interface at the same time offers the redundancy for higher availability when both interfaces are connected to the same switch that supports 'Port Trunking'.

☐ Enable Network Port Trunking

Select the port trunking mode from below. Please note that incompatible mode settings might cause the network interface to hang or affect the overall performance. For more information, please click [here](#).

Balance-rr (Round-Robin)

DNS Server:

Primary DNS Server: . . .

Secondary DNS Server: . . .

TCP/IP - Property

Network Speed

Auto-negotiation

☒ Obtain IP address settings automatically via DHCP

☐ Use static IP address

Fixed IP Address:

169

254

100

100

Subnet Mask:

255

255

0

0

Default Gateway:

169

254

100

100

☐ Enable DHCP Server

Start IP Address:

169

254

1

100

End IP Address:

169

254

1

200

Lease Time:

1

Day

0

Hour

Step 1 of 1

APPLY

CANCEL

TCP/IP

:

NAS가

NAS가

DHCP IP

가 DHCP

, NAS DHCP

IP()

IP

IP

DHCP

NAS가 LAN DHCP

, NAS DHCP

IP

LAN DHCP

DHCP IP . DHCP 가 IP .
 , DHCP NAT 가 DLNA NAS
 UPnP DLNA DMP , NAS DHCP . NAS IP DMP

- :
- LAN DHCP 가 , , IP
 가
 - LAN NAS LAN 가 Ethernet 1(1)

(ii)
 LAN (LAN NAS).

(iii) (Port Trunking)

LAN 가 TS-110, TS-119, TS-210, TS-219, TS-219P

NAS

()
()가
() 가

NAS NAS LAN 가 (i) (ii)

NAS

1. 'Enable Network Port Trunking ()'
2. Active Backup (Failover) (())

Port Trunking

Port Trunking provides network load balancing and fault tolerance by combining two Ethernet interfaces. The bandwidth beyond the limits of any one single interface at the same time offers the redundancy; both interfaces are connected to the same switch that supports 'Port Trunking'.

☒ Enable Network Port Trunking

Select the port trunking mode from below. Please note that incompatible mode settings might cause the interface to hang or affect the overall performance. For more information, please click [here](#).

Active Backup(Fail Over)

Balance-rr (Round-Robin)

Active Backup(Fail Over)

Balance XOR

Broadcast



IEEE 802.3ad

Balance-tlb (Adaptive Transmit Load Balancing)

Balance-alb (Adaptive Load Balancing)

3. Apply()'

4. 가 Ethernet 1+2(1+2) . Edit() ()

TCP / IP									
DDNS									
IPV6									
IP Address									
Interface	DHCP	IP Address	Subnet Mask	Gateway	MAC Address	Speed	MTU	Link	Edit
Ethernet 1+2	Yes	10.8.12.46	255.255.254.0	10.8.12.1	00:08:9B:8C:BC:6C	100Mbps	1500		

5. 가 NAS

NAS

Balance-rr(Round-Robin)(-rr(-))	Round-Robin(-) 가 Balance-rr(-rr)	
Active Backup()	Active Backup() 가 MAC 가 () Active Backup()	
Balance XOR(XOR)	Balance XOR(XOR) 가 MAC 가 MAC 2 xmit_hash_policy Balance XOR(XOR)	
Broadcast()	Broadcast() Broadcast()	
IEEE 802.3ad (Dynamic Link Aggregation)()	Dynamic Link Aggregation() 802.3ad Dynamic Link Aggregation() LACP 가 IEEE 802.3ad	802.3ad LACP
Balance-tlb (Adaptive Transmit Load Balancing)(-tlb()	Balance-tlb(-tlb) () 가 가 MAC 가	

	. Balance-tlb(-tlb)	
Balance-alb (Adaptive Load Balancing)(- alb())	Balance-alb(-alb) Balance-tlb(-tlb) IPV4 (). ARP 가 Balance-alb(-alb)	

(iv) DNS

1 DNS : NAS DNS 1 DNS IP .
2 DNS : NAS DNS 2 DNS IP .

:
• ISP 1 2 DNS IP . NAS가
BT , URL 1
DNS IP ,
• DHCP IP 가 , 1 2 DNS 가 .
"0.0.0.0"

(v) (MTU)

TS-509 Pro, TS-809 Pro, TS-809U-RP .

“ ” 1500 . 가
CPU .

MTU() () .

NAS : 1500 . 가
, MTU . NAS MTU 4074, 7418 9000
.

: 가 ,
가 MTU .

DDNS

가
 , ISP가 IP , IP
 . DDNS
 NAS DDNS , NAS가 IP 가 , NAS DDNS
 IP 가 NAS , DDNS
 IP

DDNS , DDNS 가 . NAS DDNS
 : <http://www.dyndns.com/>, <http://update.ods.org/>, <http://www.dhs.org/>, <http://www.dyns.cx/>,
<http://www.3322.org/>, <http://www.no-ip.com/>.

NAS DDNS 3381

TCP / IP
DDNS
IPv6

DDNS Service

After enabling DDNS Service, you can connect to this server by domain name.

☒ Enable Dynamic DNS Service

Select DDNS server: www.dyndns.com ▼

Enter the account information you registered with the DDNS provider

User Name:

Password:

Host Name:

☐ Check the External IP Address Automatically 10 minutes ▼

Current WAN IP: 219.85.63.13

Recent DDNS Update Result

Connection IP Last Checked:

Next Check for Connection IP:

Last DDNS Update Time:

Update Server Response:

APPLY

IPv6

NAS " " IPv6, RFC 2461 RADVD() IPv6
가 IPv6 NAS 가 . IPv6 NAS

:

-
-
- FTP
- iSCSI (가)
- SSH (putty)

TCP / IP

DDNS

IPv6

IP Address

☒ Enable IPv6

Interface	Auto Configuration	IPv6 Address	Prefix Length	Gateway	Link	Edit
<div>DNS Server:</div> <div> <div></div> <div></div> </div>						

APPLY

IPv6 " " " " . NAS가

IPv6

. IPv6



IPv6 - Property

☒ IPv6 Auto-Configuration

☐ Use static IP address

 Fixed IP Address:

 Prefix Length:

 Default Gateway:

☐ Enable Router Advertisement Daemon (radvd)

 Prefix:

 Prefix Length:

Step 1 of 1

APPLY

CANCEL

IPv6

IPv6 가 , NAS가 IPv6 가

IP

IP (: 2001:bc95:1234:5678), (: 64), NAS
ISP

✓ (radvd)

NAS IPv6 IPv6 IPv6 ,

IPv6 DNS

DNS DNS
ISP . IPv6 “:”

4.1.3

NAS

Hardware

Hardware

- ☒ Enable configuration reset switch
- ☒ Enable hard disk standby mode (if no access within Status LED will be off)
- ☒ Enable light signal alert when the free size of disk is less than the value: MB
- ☐ Enable write cache (for EXT4)

Buzzer Control

Enable alarm buzzer

- ☒ System operations (startup, shutdown, and firmware upgrade)
- ☒ System events (error and warning)

Smart Fan Configuration

Fan Rotation Speed Settings:

- ☒ Low speed
- ☐ Medium speed
- ☐ High speed

APPLY

3

가

SATA

:

SATA

LED

1-51200 MB

가

(EXT4)
 NAS EXT 4
 가
 : Download Station, MySQL , , Surveillance Station.
 NAS가 가
 () ()가 가
Smart Fan
 i. ()
 , CPU , 가 가
 ii.
 ,

NAS (PSU) , PSU NAS (1U
 2U). “ ”> “ ”
 . PSU 가 PSU가 NAS “
 ”
 .
 NAS PSU , .

Hardware

Hardware

- ☒ Enable configuration reset switch
- ☒ Enable hard disk standby mode (if no access within Status LED will be off)
- ☒ Enable light signal alert when the free size of disk is less than the value: MB
- ☒ Enable alarm buzzer (beep sound for error and warning alert)
- ☒ Enable Redundant Power Supply Mode

4.1.4

IP
가
가

Security

SECURITY LEVEL

NETWORK ACCESS PROTECTION

IMPORT SSL SECURE CERTIFICATE

Security Level

☐ High: Allow connections from the list only

☐ Medium: Deny connections from the list

☒ Low: Allow all connections

Enter the IP address or network from which the connections to this server will be allowed or rejected.

+

-

Genre	IP address or network domain	Time left for IP blocking
-------	------------------------------	---------------------------

APPLY

IP

. IP가

SECURITY LEVEL

NETWORK ACCESS PROTECTION

IMPORT SSL SECURE CERTIFICATE

Network Access Protection

☒ Enable network access protection

☒ SSH:

In

1 minutes

,

after unsuccessful attempts for

5 time(s)

,

block the IP for

5 minutes

☒ Telnet:

In

1 minutes

,

after unsuccessful attempts for

5 time(s)

,

block the IP for

5 minutes

☒ HTTP(S):

In

1 minutes

,

after unsuccessful attempts for

5 time(s)

,

block the IP for

5 minutes

☐ FTP:

In

1 minutes

,

after unsuccessful attempts for

5 time(s)

,

block the IP for

5 minutes

☐ SAMBA:

In

1 minutes

,

after unsuccessful attempts for

5 time(s)

,

block the IP for

5 minutes

☐ AFP:

In

1 minutes

,

after unsuccessful attempts for

5 time(s)

,

block the IP for

5 minutes

APPLY

SSL

(SSL)

가

가

, SSL

X.509

SECURITY LEVEL	NETWORK ACCESS PROTECTION	IMPORT SSL SECURE CERTIFICATE
<h3>Import SSL Secure Certificate</h3> <p>You can upload a secure certificate issued by a trusted provider. After you have uploaded a secure certificate successfully, you can access the administration interface by SSL connection and there will not be any alert or error message.</p> <p>If you upload an incorrect secure certificate, you may not be able to login the server via SSL. To resolve the problem, you can restore the secure certificate to default and access the system again.</p> <p>Status: Default secure certificate being used</p> <div><div>Certificate: Please enter a certificate in X.509PEM format below.</div><div>View sample</div><div></div></div> <div><div>Private Key: Please enter a certificate or private key in X.509PEM format below.</div><div>View sample</div><div></div></div>		
<div>CLEAR</div> <div>UPLOAD</div>		

4.1.5

SMTP

NAS

SMTP

- SMTP : SMTP : smtp.gmail.com.
- : SMTP 25
- :
- SMTP :
- : Gmail
- SSL/ TLS : SMTP 가

Notification

CONFIGURE SMTP SERVER

CONFIGURE SMSC SERVER

ALERT NOTIFICATION

Configure SMTP Server

SMTP Server:

Port Number:

Sender:

☐ Enable SMTP Authentication

 User Name:

 Password:

☐ Use SSL/ TLS secure connection

APPLY

SMSC

SMS NAS SMS SMS
Clickatell 'SMS 가 " SMS 가

SMS	가 "	SMS	URL
:	URL	가	SMS
			SMS

CONFIGURE SMTP SERVER

CONFIGURE SMSC SERVER

ALERT NOTIFICATION

Configure SMSC Server

You can configure the SMSC settings to send instant system alerts via the SMS service provided by the SMS provider.

SMS Service Provider <http://www.clickatell.com>

☐ Enable SSL Connection

SSL Port :

SMS Server Login Name :

SMS Server Login Password :

SMS Server API_ID :

APPLY

가

SMS

SMTP

SMSC

가

“

”

346

CONFIGURE SMTP SERVER	CONFIGURE SMSC SERVER	ALERT NOTIFICATION
-----------------------	-----------------------	--------------------

Alert Notification

When a system event occurs, an alert email/SMS will be sent automatically.

Send system error alert by:

Send system warning alert by:

E-mail Notification Settings

E-mail address 1:

E-mail address 2:

Note: The SMTP server must be configured first for alert mail delivery.

SMS Notification Settings

Country Code:

Cell Phone No. 1: +93

Cell Phone No. 2: +93

Note: You must configure the SMSC server to be able to send SMS notification properly.

4.1.6

“ / / ”

/

/

NAS

“ / ”

Wake on LAN

(Wake on LAN) NAS . NAS가 (Wake on LAN)

TS-110, TS-119, TS-210, TS-219, TS-219P, TS-410, TS-419P, TS-410U, TS-419U

AC가 NAS 가 ,

Power Management

Restart/ Shutdown

Execute system restart/ shutdown immediately.

Configure Wake on LAN

☐ Enable

☒ Disable

When the AC power resumes:

☒ Resume the server to the previous power-on or power-off status.

☐ Turn on the server automatically.

☐ The server should remain off.

Set power on/ power off/ restart schedule

☐ Enable schedule

☐ Postpone the restart/shutdown schedule when a replication job is in progress.

Shutdown Daily 7 0

4.1.7

NAS
"Network Recycle Bin"
SAMBA AFP

Network Recycle Bin

Network Recycle Bin

After enabling Network Recycle Bin, all the deleted files on the network folders of the NAS are moved to the "Network Recycle Bin" network folder.

☒ Enable Network Recycle Bin

Empty Network Recycle Bin

Click **[EMPTY NETWORK RECYCLE BIN]** to delete all the files in network recycle bin.

EMPTY NETWORK RECYCLE BIN

APPLY

4.1.8

Backup/Restore Settings

Backup System Settings

To backup all settings, including user accounts, server name and network configuration etc., click **[BACKUP]** and select to open or save the setting file.

BACKUP

Restore System Settings

To restore all settings, click **[Browse...]** to select a previously saved setting file and click **[RESTORE]** to confirm.

Browse...

RESTORE

4.1.9

NAS , 10,000

:

System Logs

SYSTEM EVENT LOGS
SYSTEM CONNECTION LOGS
ON-LINE USERS
SYSLOG

All events
Clear
Save

Type	Date	Time	Users	Source IP	Computer name	Content
①	2010-05-12	12:28:10	admin	10.8.12.44	---	[Security] Network access protection enabled.
①	2010-05-12	12:20:58	admin	10.8.12.44	---	[TCP/IP] DHCP server disabled.
①	2010-05-12	12:20:57	admin	10.8.12.44	---	[TCP/IP] Changed configuration of network interfaces from [STANDALONE] to [balance-rr]
①	2010-05-12	12:20:57	admin	10.8.12.44	---	[Port Trunking] Enabled.
①	2010-05-12	12:20:28	System	127.0.0.1	localhost	Stop process upnnpd.
①	2010-05-12	12:19:58	System	127.0.0.1	localhost	Stop process upnnpd.
①	2010-05-12	12:19:27	System	127.0.0.1	localhost	Stop process upnnpd.
①	2010-05-12	12:18:35	admin	10.8.12.44	---	[TCP/IP] DHCP server disabled.
①	2010-05-12	12:18:35	admin	10.8.12.44	---	[TCP/IP] Changed configuration of network interfaces from [active-backup] to [STANDALONE]
①	2010-05-12	12:18:35	admin	10.8.12.44	---	[Port Trunking] Disabled.

There are 10000 events. Displays 10 records per page.
1 / 1000

HTTP, FTP, Telnet, SSH, AFP, NFS, SAMBA iSCSI

“ ”

:

IP 가 IP

SYSTEM EVENT LOGS

SYSTEM CONNECTION LOGS

ON-LINE USERS

SYSLOG

All events

Options

Stop logging

Clear

Save

Type	Date	Time	Users	Source IP	Computer name	Connection type	Accessed resources	Action
1	2010-05-12	12:25:22	admin	10.9.12.44	localhost	FTP	---	Login OK

There is 1 event. Display page.

Delete this record

Add to the block list

1

/ 1

:

csv

가

Connection Type

Select the connection type to be logged.

☒ HTTP

☒ FTP

☒ Telnet

☒ SSH

☐ AFP

☐ SAMBA

☐ iSCSI

☐ When the number of logs reaches 10,000, archive the connection logs and save the file in the folder:

APPLY CANCEL

가

: IP / IP 가

SYSTEM EVENT LOGS SYSTEM CONNECTION LOGS ON-LINE USERS SYSLOG							
Type	Login date	Login time	Users	Source IP	Computer name	Connection type	Accessed resources
	2010-05-12	12:34:34	rei	10.8.12.39	reinh	Samba	Qmultimedia
	2010-05-12	12:34:5				Samba	Qrecordings
	2010-05-12	12:17:5				HTTP	Administration
	2010-05-12	12:35:22	admin	10.8.12.44	---	FTP	---

There are 4 events.

Syslog

Syslog IP

syslog

SYSTEM EVENT LOGS SYSTEM CONNECTION LOGS ON-LINE USERS SYSLOG	
Syslog Settings	
<input checked="" type="checkbox"/> Enable syslog	
You can enable this option to save the event logs and connection logs to a remote syslog server.	
Syslog Server IP:	<input type="text"/>
UDP Port:	<input type="text" value="514"/>
Select the logs to record	
<input checked="" type="checkbox"/> System Event Logs	
<input type="checkbox"/> System Connection Logs (You must enable system connection logs to use this option.)	
APPLY	

Firmware Upgrade

FIRMWARE UPGRADE
LIVE UPDATE

Firmware Upgrade

Current firmware version: 3.3.0 Build 0607T

Before updating system firmware, please make sure the product model and firmware version are correct. Follow the steps below to update firmware:

1. Download the release notes of the same version as the firmware from QNAP website <http://www.qnap.com/> Read the release notes carefully to make sure you need to update the firmware.
2. Before updating system firmware, back up all disk data on the server to avoid any potential data loss during system update.
3. Click the **[Browse...]** button to select the correct firmware image for system update. Click the **[UPDATE SYSTEM]** button to update the firmware.

Note: 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.

: , 가 .

1 : QNAP <http://www.qnap.com/>

가

2 : NAS IMG

3 :

4 : [..] “

”

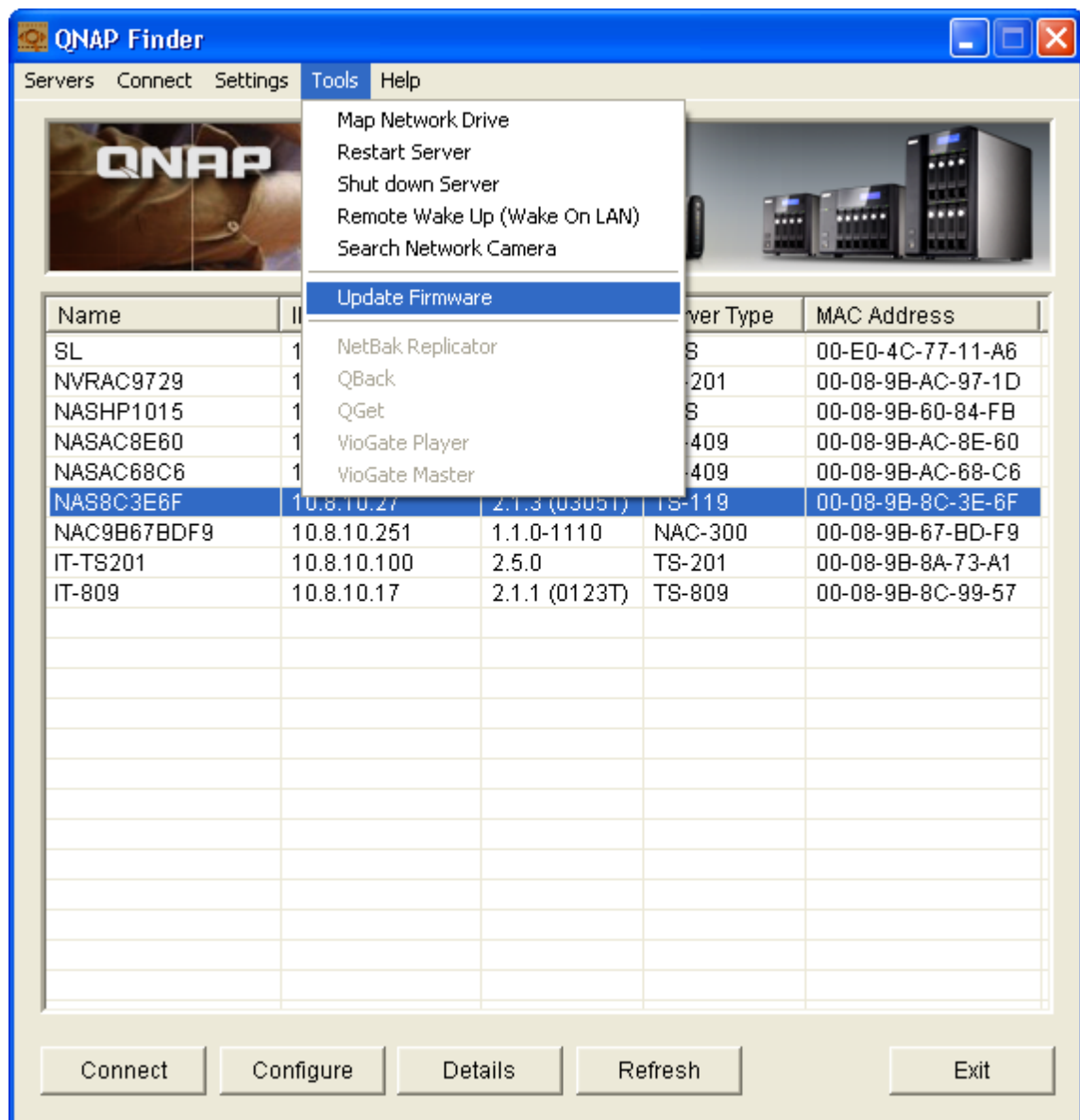
가

QNAP

. NAS

'Update

Firmware "()



Login Administrator [NAS8C3E6F]

Administrator Name :

Administrator Password :

NAS . "Start "()

Update Firmware

Select the system firmware to be installed or updated to the system hard disk.

Path of system firmware image file:

Firmware Model: TS-119, Version: 2.1.4.

Server Name	Model Name	Version	MAC Address	Pro...	Status
<input checked="" type="checkbox"/> NAS8C3E6F	TS-119	2.1.3 (0305T)	00-08-9B-8C-3E-6F		

☒ Update all the servers with the same model number within the network

가

NAS가 update(QNAP)' 가 NAS 'Enable QNAP live

'CHECK FOR UPDATE()'

NAS

Firmware Upgrade

FIRMWARE UPGRADE

LIVE UPDATE

Live Update

Status: The latest update check is finished at 2010/6/8 11:27:53

CHECK FOR UPDATE

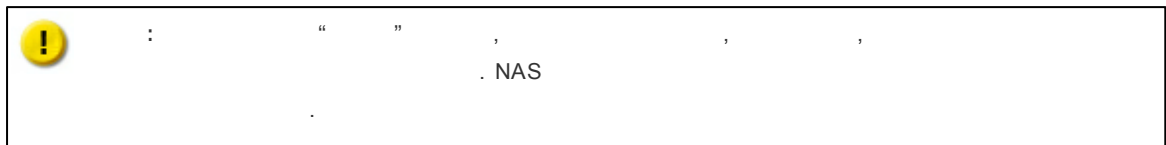
Live Update Setting

After enabling this service, the system will automatically check if a newer firmware version is available for download when logging into the NAS web administration.

☒ Enable QNAP live update

APPLY

4.1.11



Restore to Factory Default

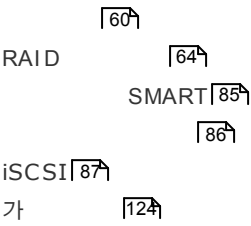
Restore to Factory Default

To reset all settings to default, click **[RESET]**.

Caution: When you press **[RESET]** on this page, all drive data, user accounts, network shares and system settings are cleared and restored to default. Please make sure you have backed up all the important data and system settings before resetting the NAS.

[RESET]

4.2



4.2.1

NAS SATA , . SATA , NAS .


:

- Public:
- Qdownload/ Download* :
- Qmultimedia/ Multimedia* :
- Qusb/ Usb* : USB
- Qweb/ Web* :
- Qrecordings/ Recordings* :


*TS-259/ TS-459/ TS-659/ TS-859 .

:


Volume Management




Single Disk Volume
Create single disk volume(s).



RAID 1 Mirroring Disk Volume
Create mirroring disk volume(s).




RAID 0 Striping Disk Volume
Create one striping disk volume.



JBOD Linear Disk Volume
Create one linear disk volume.

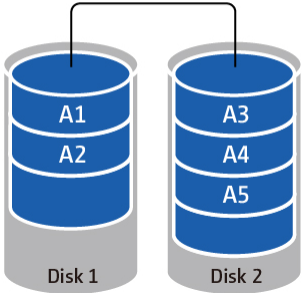
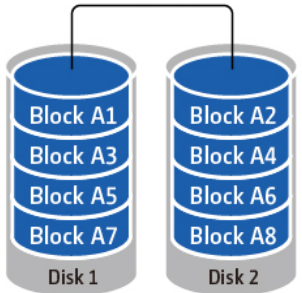
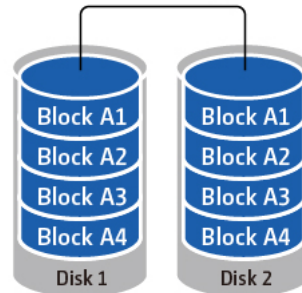
Current Disk Volume Configuration : Physical Disks					
Disk	Model	Capacity	Status	Bad Blocks Scan	SMART Information
Drive 1	Seagate ST3160318AS CC44	149.05 GB	Ready	SCAN NOW	GOOD
Drive 2	Seagate ST3160318AS CC44	149.05 GB	Ready	SCAN NOW	GOOD

Note that if you are going to install a hard drive (new or used) which has never been installed on the NAS before, the hard drive will be formatted and partitioned automatically and all the disk data will be cleared.

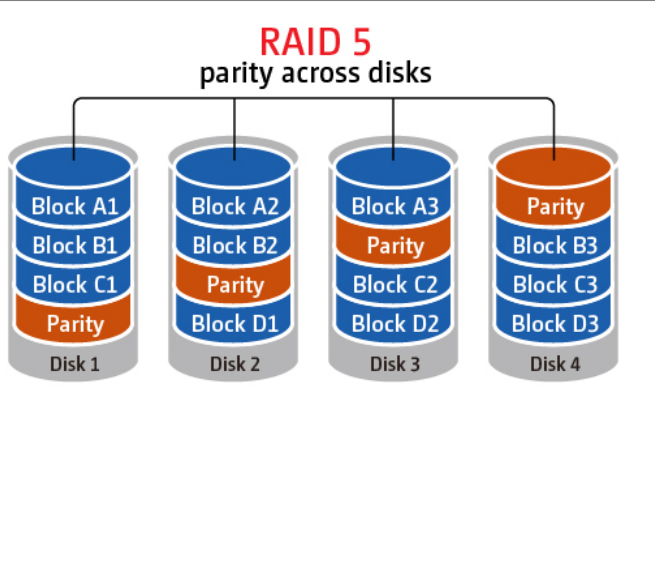
Current Disk Volume Configuration : Logical Volumes				
Volume	File System	Total Size	Free Size	Status
Mirroring Disk Volume: Drive 1 2	EXT3	145.24 GB	112.96 GB	Ready 

[FORMAT NOW](#)
[CHECK NOW](#)
[REMOVE NOW](#)

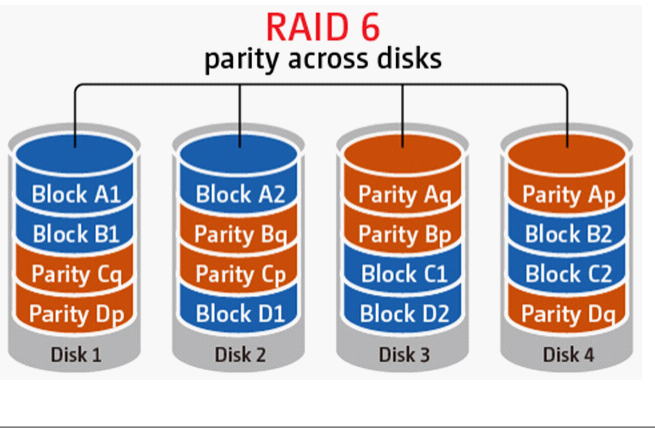
	NAS
RAID 1, JBOD (Just a bunch of disks:)	2-
RAID 5, RAID 6, RAID 5+ ,	4-
RAID 6+	5-

가	
JBOD () JBOD RAID	<p>JBOD</p> 
RAID 0 RAID 0 () 2 가	<p>RAID 0 striping</p> 
RAID 1 RAID 1 RAID 1 , 2 가	<p>RAID 1 mirroring</p> 

RAID 5
 가 RAID 5
 가
 가
 RAID 5
 3
 가
 (N-1)
 N



RAID 6
 가 RAID 6
 RAID 6 RAID
 5
 가
 RAID 6
 4
 가
 RAID 6
 (N-2)
 N



4.2.2 RAID

* RAID , RAID , RAID 1- NAS TS- 210

RAID (RAID 1/ 5/ 6) RAID (/ RAID 1/ RAID 5) (RAID 5/6).

RAID Management

This function enables capacity expansion, RAID configuration migration or spare drive configuration with the original drive data reserved.

Note: Make sure you have read the instructions carefully and you fully understand the correct operation procedure before using this function.

Current Disk Volume Configuration

Volume	Total Size	Bitmap	Status	Description
<input type="radio"/> Mirroring Disk Volume: Drive 1 2	145.24 GB	No	Ready	The operation(s) you can execute: - Expand capacity

EXPAND CAPACITY

ADD HARD DRIVE

MIGRATE

CONFIGURE SPARE DRIVE

BITMAP

RECOVER

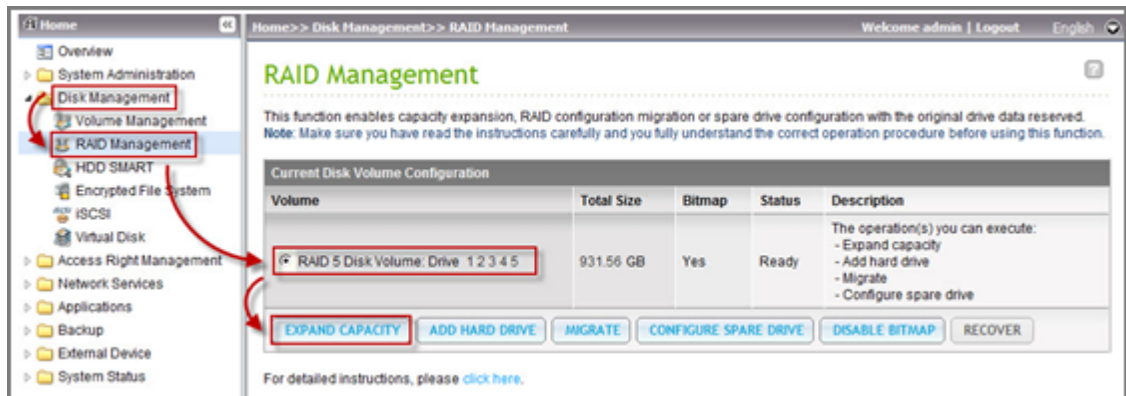
RAID

TS-509 Pro 가 250GB HDD HDD RAID 5

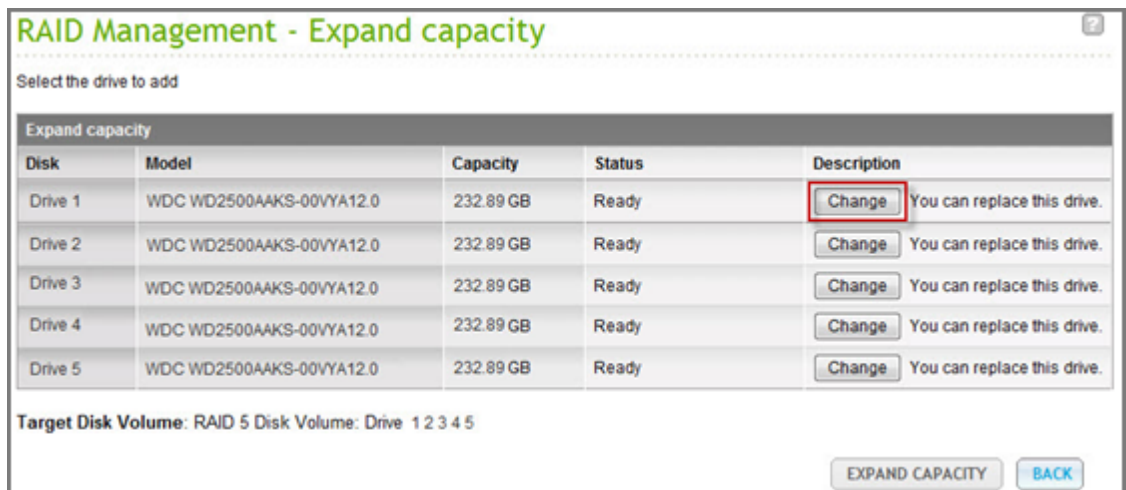
1TB 가 1.5 TB 가 NAS



'Disk Management' () > 'RAID Management' (RAID)
 'EXPAND CAPACITY' ()



HDD 'Change' ()



: HDD Description() 'You can replace this drive' ()
) 가 HDD , HDD



Description() 'Please remove this drive' () 가
 NAS NAS가

RAID Management - Expand capacity

Select the drive to add

Disk	Model	Capacity	Status	Description
Drive 1	WDC WD2500AAKS-00VYA12.0	232.89 GB	Ready	Cancel Please remove the drive.
Drive 2	WDC WD2500AAKS-00VYA12.0	232.89 GB	Ready	No operation can be executed on this drive or the drive is busy
Drive 3	WDC WD2500AAKS-00VYA12.0	232.89 GB	Ready	No operation can be executed on this drive or the drive is busy
Drive 4	WDC WD2500AAKS-00VYA12.0	232.89 GB	Ready	No operation can be executed on this drive or the drive is busy
Drive 5	WDC WD2500AAKS-00VYA12.0	232.89 GB	Ready	No operation can be executed on this drive or the drive is busy

Target Disk Volume: RAID 5 Disk Volume: Drive 1 2 3 4 5

EXPAND CAPACITY BACK

Description() 'Please insert the new drive' () 가
 HDD

RAID Management - Expand capacity

Select the drive to add






Disk	Model	Capacity	Status	Description
Drive 1	--	--	No Disk	Please insert the new drive
Drive 2	WDC WD2500AAKS-00VYA12.0	232.89 GB	Ready	No operation can be executed on this drive or the drive is busy
Drive 3	WDC WD2500AAKS-00VYA12.0	232.89 GB	Ready	No operation can be executed on this drive or the drive is busy
Drive 4	WDC WD2500AAKS-00VYA12.0	232.89 GB	Ready	No operation can be executed on this drive or the drive is busy
Drive 5	WDC WD2500AAKS-00VYA12.0	232.89 GB	Ready	No operation can be executed on this drive or the drive is busy

Target Disk Volume: RAID 5 Disk Volume: Drive 2 3 4 5

EXPAND CAPACITY BACK

HDD

NAS가

Status	Description
 Rebuilding... (0%)	No operation can be executed on this drive or the drive is busy
 Rebuilding... (0%)	No operation can be executed on this drive or the drive is busy
 Rebuilding... (0%)	No operation can be executed on this drive or the drive is busy
 Rebuilding... (0%)	No operation can be executed on this drive or the drive is busy
 Rebuilding... (0%)	No operation can be executed on this drive or the drive is busy

HDD

RAID Management - Expand capacity ?

Select the drive to add

Expand capacity				
Disk	Model	Capacity	Status	Description
Drive 1	Hitachi HD5721010KLA330 GKAO	931.51 GB	Ready	Change You can replace this drive.
Drive 2	WDC WD2500AAKS-00VYA12.0	232.89 GB	Ready	Change You can replace this drive.
Drive 3	WDC WD2500AAKS-00VYA12.0	232.89 GB	Ready	Change You can replace this drive.
Drive 4	WDC WD2500AAKS-00VYA12.0	232.89 GB	Ready	Change You can replace this drive.
Drive 5	WDC WD2500AAKS-00VYA12.0	232.89 GB	Ready	Change You can replace this drive.

Target Disk Volume: RAID 5 Disk Volume: Drive 1 2 3 4 5

[EXPAND CAPACITY](#)
[BACK](#)

HDD

'EXPAND CAPACITY' ()

RAID

RAID Management

This function enables capacity expansion, RAID configuration migration or spare drive configuration with the original drive data reserved.
Note: Make sure you have read the instructions carefully and you fully understand the correct operation procedure before using this function.

Current Disk Volume Configuration

Volume	Total Size	Bitmap	Status	Description
RAID 5 Disk Volume: Drive 1 2 3 4 5	913.96 GB	Yes	Ready	The operation(s) you can execute: - Expand capacity

EXPAND CAPACITY ADD HARD DRIVE MIGRATE CONFIGURE SPARE DRIVE BITMAP RECOVER

For detailed instructions, please [click here](#).

'OK' ()

NAS가

RAID Management - Expand capacity

Select the drive to add

Expand capacity

Disk	Model	Capacity	Status	Description
Drive 1	Hitachi HD5721010KLA330 GKAO	931.51 GB	Ready	Processing...
Drive 2	Hitachi HD5721010KLA330 GKAO	931.51 GB	Ready	Processing...
Drive 3	Hitachi HD5721010KLA330 GKAO	931.51 GB	Ready	Processing...
Drive 4	Hitachi HD5721010KLA330 GKAO	931.51 GB	Ready	Processing...
Drive 5	Hitachi HD5721010KLA330 GKAO	931.51 GB	Ready	Processing...

Target Disk Volume: RAID 5 Disk Volume: Drive 1 2 3 4 5 You can expand the disk volume capacity to approximately **3726 GB**

EXPAND CAPACITY BACK

NAS

Current Disk Volume Configuration: Physical Disks					
Disk	Model	Capacity	Status	Bad Blocks Scan	SMART Information
Drive 1	Hitachi HD5721010KLA330 GKA0	931.51 GB	Ready	SCAN NOW	GOOD
Drive 2	Hitachi HD5721010KLA330 GKA0	931.51 GB	Ready	SCAN NOW	GOOD
Drive 3	Hitachi HD5721010KLA330 GKA0	931.51 GB	Ready	SCAN NOW	GOOD
Drive 4	Hitachi HD5721010KLA330 GKA0	931.51 GB	Ready	SCAN NOW	GOOD
Drive 5	Hitachi HD5721010KLA330 GKA0	931.51 GB	Ready	SCAN NOW	GOOD

Current Disk Volume Configuration: Logical Volumes				
Volume	File System	Total Size	Free Size	Status
RAID 5 Disk Volume: Drive 1 2 3 4 5	EXT3	3726.04 GB	3315.36 GB	Ready

RAID 'Ready' () 가 .
(3.7TB)

RAID Management

This function enables capacity expansion, RAID configuration migration or spare drive configuration with the original drive data reserved.
Note: Make sure you have read the instructions carefully and you fully understand the correct operation procedure before using this function.

Current Disk Volume Configuration				
Volume	Total Size	Bitmap	Status	Description
<input checked="" type="radio"/> RAID 5 Disk Volume: Drive 1 2 3 4 5	3726.04 GB	Yes	Ready	The operation(s) you can execute: - Expand capacity

[EXPAND CAPACITY](#) [ADD HARD DRIVE](#) [MIGRATE](#) [CONFIGURE SPARE DRIVE](#) [BITMAP](#) [RECOVER](#)

For detailed instructions, please [click here](#).

Tip: Description() 'You can replace this hard drive' ()
가 가 'Ready' () RAID

TS-509 Pro

가
RAID 5

RAID 가

•

-
- The diagram illustrates the process of creating a RAID5 array in four steps:
- STEP 1.** A single 1TB disk is shown, labeled "Single Disk".
 - STEP 2.** A red arrow points to a configuration with one 1TB disk and a plus sign next to three stacked 1TB disks, labeled "Add New Disks".
 - STEP 3. ~ STEP 5.** A red arrow labeled "RAID Migration" points from the previous state to the final state.
 - STEP 6.** The final state shows four stacked 1TB disks enclosed in a box, labeled "3TB (RAID 5)".

- 71

' (Disk Management) > ' (Volume Management) .
(1TB).

Current Disk Volume Configuration: Physical Disks					
Drive 1	Hitachi HD5721010KLA330 GKA0	931.51 GB	Ready	SCAN NOW	GOOD
Drive 2	--	--	No Disk	SCAN NOW	---
Drive 3	--	--	No Disk	SCAN NOW	---
Drive 4	--	--	No Disk	SCAN NOW	---
Drive 5	--	--	No Disk	SCAN NOW	---

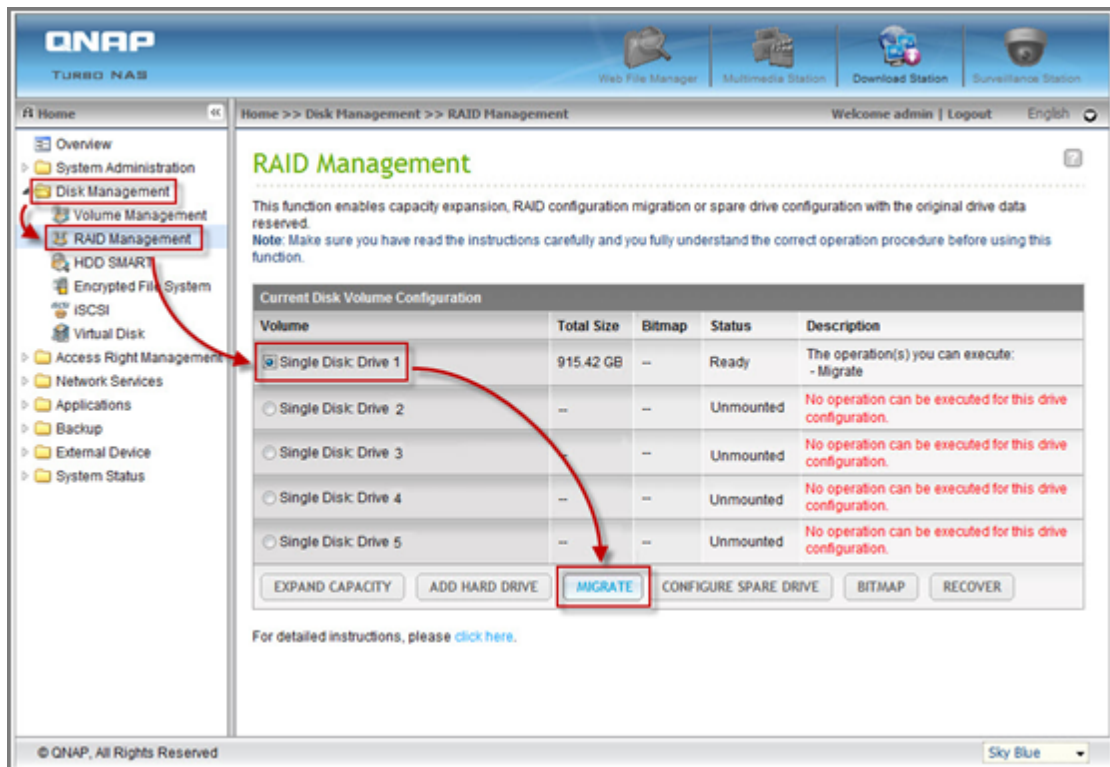
Current Disk Volume Configuration: Logical Volumes				
Volume	File System	Total Size	Free Size	Status
Single Disk: Drive 1	EXT3	931.51 GB	524.68 GB	Ready
<div> FORMAT NOW CHECK NOW REMOVE NOW </div>				

1TB HDD NAS 2, 3, 4, 5 . NAS가 HDD . HDD
 'Unmounted' () .

Current Disk Volume Configuration: Physical Disks					
Drive 1	Hitachi HD5721010KLA330 GKA0	931.51 GB	Ready	SCAN NOW	GOOD
Drive 2	Hitachi HD5721010KLA330 GKA0	931.51 GB	Ready	SCAN NOW	GOOD
Drive 3	Hitachi HD5721010KLA330 GKA0	931.51 GB	Ready	SCAN NOW	GOOD
Drive 4	Hitachi HD5721010KLA330 GKA0	931.51 GB	Ready	SCAN NOW	GOOD
Drive 5	Hitachi HD5721010KLA330 GKA0	931.51 GB	Ready	SCAN NOW	GOOD

Current Disk Volume Configuration: Logical Volumes				
Volume	File System	Total Size	Free Size	Status
Single Disk: Drive 1	EXT3	931.51 GB	524.68 GB	Ready
		FORMAT NOW	CHECK NOW	REMOVE NOW
Single Disk: Drive 2	EXT3	--	--	Unmounted
		FORMAT NOW	CHECK NOW	REMOVE NOW
Single Disk: Drive 3	EXT3	--	--	Unmounted
		FORMAT NOW	CHECK NOW	REMOVE NOW
Single Disk: Drive 4	EXT3	--	--	Unmounted
		FORMAT NOW	CHECK NOW	REMOVE NOW
Single Disk: Drive 5	EXT3	--	--	Unmounted
		FORMAT NOW	CHECK NOW	REMOVE NOW

'Disk Management' () > 'RAID Management' (RAID) 가
'Migrate' ()



가

'Migrate' ()

RAID Management - Migrate

Select the drive to add

Migrate				
Available drive(s)	Disk	Model	Capacity	Status
<input checked="" type="checkbox"/>	Drive 2	WD1000FYPS-01ZKB02.0	931.51 GB	Ready
<input checked="" type="checkbox"/>	Drive 3	WD1000FYPS-01ZKB02.0	931.51 GB	Ready
<input checked="" type="checkbox"/>	Drive 4	WD1000FYPS-01ZKB02.0	931.51 GB	Ready
<input checked="" type="checkbox"/>	Drive 5	WD1000FYPS-01ZKB02.0	931.51 GB	Ready

Select the migration method:

☐ Single Disk Volume -> RAID 1 Mirroring Disk Volume

☒ Single Disk Volume -> RAID 5 Disk Volume

☐ Single Disk Volume -> RAID 6 Disk Volume

Target Disk Volume: Single Disk: Drive 4 The drive configuration is about to be configured as **RAID 5 Disk Volume**, The capacity is approximately **3726 GB**

HDD

가

'OK' ()

Description()



Current Disk Volume Configuration: Physical Disks					
Drive 1	Hitachi HD5721010KLA330 GKA0	931.51 GB	Ready	SCAN NOW	GOOD
Drive 2	Hitachi HD5721010KLA330 GKA0	931.51 GB	Ready	SCAN NOW	GOOD
Drive 3	Hitachi HD5721010KLA330 GKA0	931.51 GB	Ready	SCAN NOW	GOOD
Drive 4	Hitachi HD5721010KLA330 GKA0	931.51 GB	Ready	SCAN NOW	GOOD
Drive 5	Hitachi HD5721010KLA330 GKA0	931.51 GB	Ready	SCAN NOW	GOOD

Current Disk Volume Configuration: Logical Volumes				
Volume	File System	Total Size	Free Size	Status
Single Disk: Drive 1	EXT3	931.51 GB	524.68 GB	Ready
		FORMAT NOW	CHECK NOW	REMOVE NOW
Single Disk: Drive 2	EXT3	--	--	Unmounted
		FORMAT NOW	CHECK NOW	REMOVE NOW
Single Disk: Drive 3	EXT3	--	--	Unmounted
		FORMAT NOW	CHECK NOW	REMOVE NOW
Single Disk: Drive 4	EXT3	--	--	Unmounted
		FORMAT NOW	CHECK NOW	REMOVE NOW
Single Disk: Drive 5	EXT3	--	--	Unmounted
		FORMAT NOW	CHECK NOW	REMOVE NOW

RAID Management

This function enables capacity expansion, RAID configuration migration or spare drive configuration with the original drive data reserved.

Note: Make sure you have read the instructions carefully and you fully understand the correct operation procedure before using this function.

Current Disk Volume Configuration				
Volume	Total Size	Bitmap	Status	Description
 Single Disk: Drive 1	915.42 GB	--	 Migrating... (2%)	No operation can be executed for this drive configuration

EXPAND CAPACITY
ADD HARD DRIVE
MIGRATE
CONFIGURE SPARE DRIVE
BITMAP
RECOVER

For detailed instructions, please [click here](#).

NAS

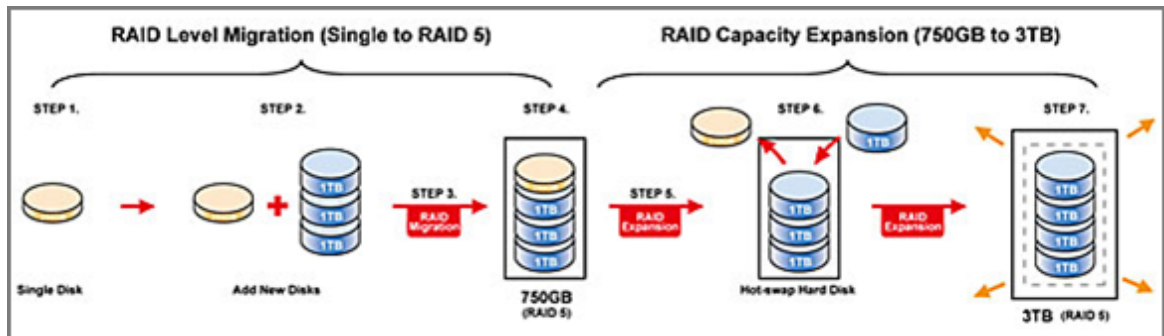
RAID

RAID

FTP
TS-509 Pro

250GB HDD

TS-509 Pro 3TB RAID 5
HDD TS-509 Pro RAID 5 3TB



RAID 750GB, RAID 5 250GB HDD RAID 5 1TB HDD RAID5

250GB*4개 .)

RAID 250GB HDD 1TB HDD RAID5 750GB

3TB

Bit map

RAID , 가 RAID ()가

: RAID 1, 5 6

RAID 0	JBOD	가	NAS
,	"	(Not active)"	" (Normal)"

: 가 RAID .
TS- 110, TS- 210, TS- 119 .

RAID	RAID 5	QNAP RAID 5	RAID 6	QNAP RAID 6
	N-1	N-1	N-1 N-2	N-1 N-2
(HDD)		N-1, .		N-2, .
RAID (RAID :)		NAS , , HDD .		NAS , , HDD .
RAID	N-2	N-2 HDD 가 HDD / /	N-3	N-3 HDD / /

NAS

* H D D	H D D		* H D D
RAID 5 * 3	1	HDD 가	RAID 5 * 4
RAID 5 * 3	2	HDD 가	RAID 5 * 5
RAID 5 * 3	3	HDD 가	RAID 5 * 6
RAID 5 * 3	4	HDD 가	RAID 5 * 7
RAID 5 * 3	5	HDD 가	RAID 5 * 8
RAID 5 * 4	1	HDD 가	RAID 5 * 5
RAID 5 * 4	2	HDD 가	RAID 5 * 6
RAID 5 * 4	3	HDD 가	RAID 5 * 7
RAID 5 * 4	4	HDD 가	RAID 5 * 8
RAID 5 * 5	1	HDD 가	RAID 5 * 6
RAID 5 * 5	2	HDD 가	RAID 5 * 7
RAID 5 * 5	3	HDD 가	RAID 5 * 8
RAID 5 * 6	1	HDD 가	RAID 5 * 7
RAID 5 * 6	2	HDD 가	RAID 5 * 8
RAID 5 * 7	1	HDD 가	RAID 5 * 8
RAID 6 * 4	1	HDD 가	RAID 6 * 5
RAID 6 * 4	2	HDD 가	RAID 6 * 6
RAID 6 * 4	3	HDD 가	RAID 6 * 7
RAID 6 * 4	4	HDD 가	RAID 6 * 8
RAID 6 * 5	1	HDD 가	RAID 6 * 6
RAID 6 * 5	2	HDD 가	RAID 6 * 7
RAID 6 * 5	3	HDD 가	RAID 6 * 8
RAID 6 * 6	1	HDD 가	RAID 6 * 7
RAID 6 * 6	2	HDD 가	RAID 6 * 8
RAID 6 * 7	1	HDD 가	RAID 6 * 8

RAID 1 * 2	1	RAID	RAID 1 * 2
RAID 5 * 3	1	RAID	RAID 5 * 3
RAID 5 * 4	1	RAID	RAID 5 * 4
RAID 5 * 5	1	RAID	RAID 5 * 5
RAID 5 * 6	1	RAID	RAID 5 * 6
RAID 5 * 7	1	RAID	RAID 5 * 7
RAID 5 * 8	1	RAID	RAID 5 * 8
RAID 6 * 4	1	RAID	RAID 6 * 4
RAID 6 * 5	1	RAID	RAID 6 * 5
RAID 6 * 6	1	RAID	RAID 6 * 6
RAID 6 * 7	1	RAID	RAID 6 * 7
RAID 6 * 8	1	RAID	RAID 6 * 8
* 1	1	RAID	RAID 1 * 2
* 1	2	RAID	RAID 5 * 3
* 1	3	RAID	RAID 5 * 4
* 1	4	RAID	RAID 5 * 5
* 1	5	RAID	RAID 5 * 6
* 1	6	RAID	RAID 5 * 7
* 1	7	RAID	RAID 5 * 8
* 1	3	RAID	RAID 6 * 4
* 1	4	RAID	RAID 6 * 5

* 1	5	RAID	RAID 6 * 6
* 1	6	RAID	RAID 6 * 7
* 1	7	RAID	RAID 6 * 8
RAID 1 * 2	1	RAID	RAID 5 * 3
RAID 1 * 2	2	RAID	RAID 5 * 4
RAID 1 * 2	3	RAID	RAID 5 * 5
RAID 1 * 2	4	RAID	RAID 5 * 6
RAID 1 * 2	5	RAID	RAID 5 * 7
RAID 1 * 2	6	RAID	RAID 5 * 8
RAID 1 * 2	2	RAID	RAID 6 * 4
RAID 1 * 2	3	RAID	RAID 6 * 5
RAID 1 * 2	4	RAID	RAID 6 * 6
RAID 1 * 2	5	RAID	RAID 6 * 7
RAID 1 * 2	6	RAID	RAID 6 * 8
RAID 5 * 3	1	RAID	RAID 6 * 4
RAID 5 * 3	2	RAID	RAID 6 * 5
RAID 5 * 3	3	RAID	RAID 6 * 6
RAID 5 * 3	4	RAID	RAID 6 * 7

RAID 5 * 3	5	RAID	RAID 6 * 8
------------	---	------	------------

4.2.3 SMART

HDD , HDD S.M.A.R.T.(가)

Summary ()	
Hard disk information ()	
SMART information (SMART)	SMART
Test ()	SMART
Settings ()	가 Summary ()

HDD SMART

Monitor hard disk health, temperature, and usage status by the hard disk S.M.A.R.T. mechanism.

Select Hard Disk Disk 1

SUMMARY
HARD DISK INFORMATION
SMART INFORMATION
TEST
SETTINGS

Summary

Good

No errors were detected on the hard disk. Your hard disk should be operating properly.

Hard Disk Model	Seagate ST3160318AS CC44
Drive Capacity	149.05 GB
Hard Drive Health	Good
Hard Drive Temperature	36 °C
Test Time	---
Test Result	Not tested

4.2.4

TS-110, TS-119, TS-210, TS-219, TS-219P, TS-410, TS-419P, TS-410U, TS-419U

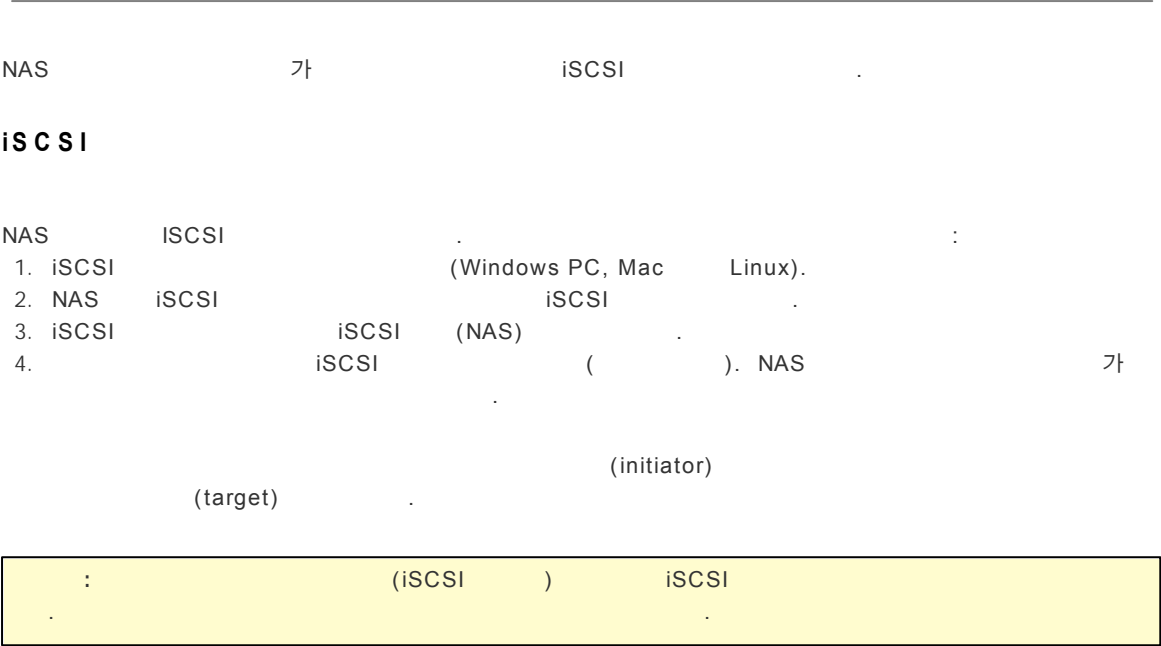
NAS

- : 8-16 (! @ # \$ % ^ & * () _ + = ?)가
- : “ ”

가

Disk Volume Encryption Management ?			
Volume	Total Size	Status	Action
Mirroring Disk Volume: Drive 1 2	145.24 GB	Unlocked	ENCRYPTION KEY MANAGEMENT

4.2.5 iSCSI



3.2.0 Intel NAS

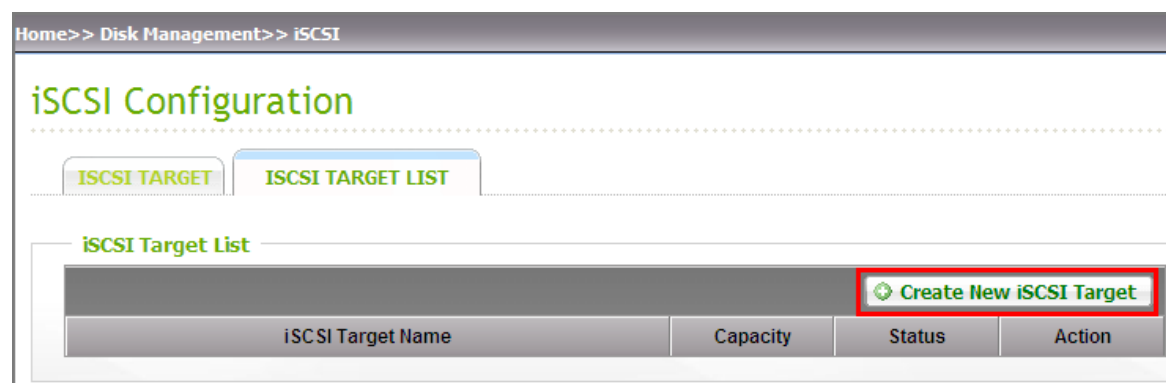
Intel NAS TS-110, TS-119, TS-210, TS-219, TS-219P, TS-410, TS-419P, TS-410U, TS-419U 가 Intel NAS TS-239 Pro, TS-239 Pro II, TS-259 Pro, SS-439 Pro, TS-439 Pro, TS-439 Pro II, TS-439U-SP/RP, TS-459 Pro, TS-459U-SP/RP, TS-509 Pro, TS-559 Pro, TS-639 Pro, TS-659 Pro, SS-839 Pro, TS-859 Pro, TS-809 Pro, TS-809U-RP, TS-859U-RP 가

NAS iSCSI LUN

(LUN) 가 iSCSI 4 4

LUN

'iSCSI TARGET LIST(iSCSI)' 'Create New iSCSI Target(iSCSI)'



iSCSI

Create New iSCSI Target

iSCSI Target Profile

Target Name:

iSCSI Target IQN: iqn.2004-04.com.qnap:ts-219:iscsi.mytarget.8cdd00

iSCSI Target LUN

☐ Allocate the disk space now ⓘ

Volume:

Free Size: 913GB

Capacity: GB

NAS가 CHAP ().
'CHAP' iSCSI

Mutual CHAP(CHAP): iSCSI
'Mutual CHAP(CHAP)'

CHAP	<ul style="list-style-type: none"> 0- 9, a- z, A- Z : 256 	<ul style="list-style-type: none"> 0- 9, a- z, A- Z : 12- 16
CHAP	<ul style="list-style-type: none"> 0- 9, a- z, A- Z, : (), . () - () : 12- 16 	<ul style="list-style-type: none"> 0- 9, a- z, A- Z, : (), . () - () : 12- 16

Type

☒ None
 ☐ CHAP

User Name: (A~Z, a~z, 0~9)
 Password (A~Z, a~z, 0~9)
 Re-enter Password:

☐ Mutual CHAP

Initiator Name: (A~Z, a~z, 0~9)
 Password (A~Z, a~z, 0~9)
 Re-enter Password:

CRC/Checksum (optional)




☐ Data Digest
 ☐ Header Digest

iSCSI Configuration

ISCSI TARGET **ISCSI TARGET LIST**

iSCSI Target List

Create New iSCSI Target

iSCSI Target Name	Capacity	Status	Action
iqn.2004-04.com.qnap.ts-219:iscsi.mytarget.8cdd00	10.00 GB	Offline	  

'iSCSI TARGET(iSCSI)' 'Enable iSCSI Target Service(iSCSI)'
'Apply()' . iSCSI 가 .

PORTAL MANAGEMENT **TARGET MANAGEMENT**

iSCSI Portal

☒ Enable iSCSI Target Service

iSCSI Service Port: 3260

☐ Enable iSNS

iSNS Server IP:

APPLY

Intel NAS TS- 239 Pro, TS- 239 Pro II, TS- 259 Pro, SS- 439 Pro, TS- 439 Pro, TS- 439 Pro II, TS- 439U- SP/RP, TS- 459 Pro, TS- 459U- SP/RP, TS- 509 Pro, TS- 559 Pro, TS- 639 Pro, TS- 659 Pro, SS- 839 Pro, TS- 859 Pro, TS- 809 Pro, TS- 809U- RP, S- 859U- RP 가

256 iSCSI 4 LUN NAS 100
가 LUN 156 LUN
NAS가 iSCSI
NAS

1. “ ” iSCSI

2. 가 “ ” NAS iSCSI
iSCSI 가 iSCSI / LUN ()

3. LUN 가 iSCSI LUN , iSCSI iSCSI



4. iSCSI LUN :



5. “ ” / “ ” ()
iSCSI 가 iSCSI



The image shows a screenshot of the 'iSCSI Quick Configuration Wizard' window. The title bar reads 'iSCSI Quick Configuration Wizard' with a close button. On the left is the QNAP TURBO NAS logo. The main area is titled 'Create New iSCSI Target' in green. Below this, it says 'iSCSI Target Profile'. There are three input fields: 'Target Name' with the value 'target01', 'iSCSI Target IQN' with the value 'iqn.2004-04.com.qnap.ts-809:iscsi.target01.8a000f', and 'Target Alias' with the value 'target'. Below these fields, it says 'CRC/Checksum (optional)' and has two checkboxes: 'Data Digest' and 'Header Digest', both of which are unchecked. At the bottom left, it says 'Step 2 of 6'. At the bottom right, there are three buttons: 'BACK', 'NEXT', and 'CANCEL'.

iSCSI Quick Configuration Wizard

QNAP
TURBO NAS

Create New iSCSI Target

iSCSI Target Profile

Target Name:

iSCSI Target IQN:

Target Alias:

CRC/Checksum (optional)

☐ Data Digest

☐ Header Digest

Step 2 of 6

BACK NEXT CANCEL

6. CHAP
iSCSI

“CHAP”

CHAP: iSCSI

“ CHAP ”

CHAP	<ul style="list-style-type: none"> • 0- 9, a- z, A- Z • : 256 	<ul style="list-style-type: none"> • 0- 9, a- z, A- Z • : 12- 16
CHAP	<ul style="list-style-type: none"> • 0- 9, a- z, A- Z, : (), . () - () • : 12- 16 	<ul style="list-style-type: none"> • 0- 9, a- z, A- Z, : (), . () - () • : 12- 16

CHAP Authentication Settings

☒ Use CHAP authentication

User Name:

Password:

Re-enter Password:

☒ Mutual CHAP

User Name:

Password:

Re-enter Password:

Step 3 of 6

BACK NEXT CANCEL

7. iSCSI LUN

iSCSI LUN iSCSI

LUN :

- - :

. NAS

. NAS

RAID

- :

LUN

LUN

LUN

LUN

LUN

(NAS)

. LUN

. " "

Create an iSCSI LUN

LUN Allocation: ☒ Thin-Provisioning ☐ Instant Allocation [i](#)

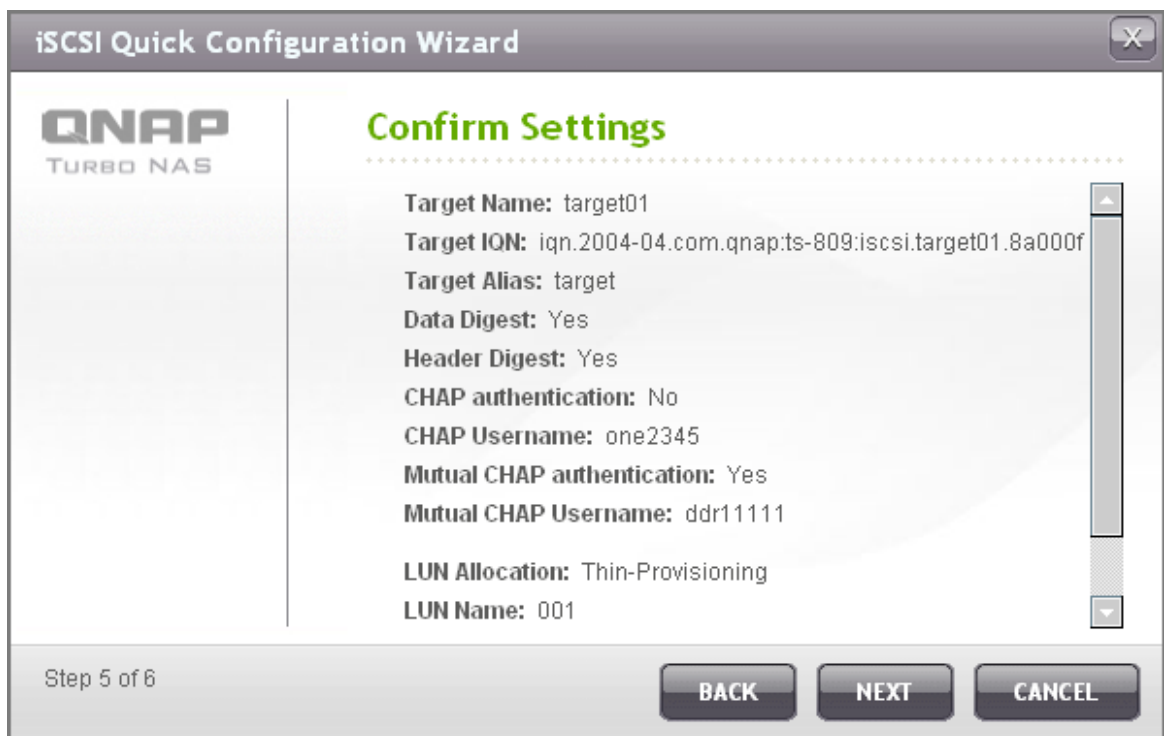
LUN Name:

LUN Location: Free Size: 281.6GB

Capacity: 50 GB

Step 4 of 6

8.



The screenshot shows the 'iSCSI Quick Configuration Wizard' window, specifically the 'Confirm Settings' step. The window has a title bar with a close button (X). On the left, there is a QNAP TURBO NAS logo. The main area is titled 'Confirm Settings' in green. Below the title, a list of settings is displayed: Target Name: target01, Target IQN: iqn.2004-04.com.qnap:ts-809:iscsi.target01.8a000f, Target Alias: target, Data Digest: Yes, Header Digest: Yes, CHAP authentication: No, CHAP Username: one2345, Mutual CHAP authentication: Yes, Mutual CHAP Username: ddr11111, LUN Allocation: Thin-Provisioning, and LUN Name: 001. A vertical scrollbar is on the right side of the settings list. At the bottom, it says 'Step 5 of 6' and has three buttons: BACK, NEXT, and CANCEL.

iSCSI Quick Configuration Wizard

QNAP
TURBO NAS

Confirm Settings

Target Name: target01
Target IQN: iqn.2004-04.com.qnap:ts-809:iscsi.target01.8a000f
Target Alias: target
Data Digest: Yes
Header Digest: Yes
CHAP authentication: No
CHAP Username: one2345
Mutual CHAP authentication: Yes
Mutual CHAP Username: ddr11111
LUN Allocation: Thin-Provisioning
LUN Name: 001

Step 5 of 6

BACK NEXT CANCEL

9.



The screenshot shows the 'iSCSI Quick Configuration Wizard' window, specifically the success screen. The window has a title bar with a close button (X). On the left, there is a QNAP TURBO NAS logo. The main area is titled 'iSCSI Quick Configuration Wizard' in green. Below the title, a message is displayed: 'Created successfully! You can perform advance settings at the "TARGET MANAGEMENT" and "ADVANCE ACL" page.' At the bottom, it says 'Step 6 of 6' and has a single button: FINISH.

iSCSI Quick Configuration Wizard

QNAP
TURBO NAS

iSCSI Quick Configuration Wizard

Created successfully!
You can perform advance settings at the "TARGET MANAGEMENT"
and "ADVANCE ACL" page.

Step 6 of 6

FINISH

10. LUN “ ” .

iSCSI Target List			
	Alias (IQN)	Status	Action
	01 (iqn.2004-04.com:ts-239:iscsi.target01.8cbc6c) └ id:0 - 001 (1.00 GB)	Ready Enabled	    
Total: 1 Display <input type="text" value="10"/> entries per page.			
  <input type="text" value="1"/> / 1  			

NAS) LUN (3.2.0 Intel
 iSCSI LUN iSCSI
 LUN

1. “ ” “ ”

PORTAL MANAGEMENT
TARGET MANAGEMENT
ADVANCED ACL

Target Management

QUICK CONFIGURATION WIZARD

Quick Configuration Wizard will assist you to create an iSCSI target and LUN.

iSCSI Target List

	Alias (IQN)	Status	Action
+	01 (iqn.2004-04.com:ts-239:iscsi.target01.8cbc6c)	Ready	

Total: 1 | Display 10 entries per page.

1 / 1

Un-Mapped iSCSI LUN List

	Name	Capacity	Action
<input type="checkbox"/>			Delete

Total: 0 | Display 10 entries per page.

1 / 0

2. "iSCSI LUN" " " .



Quick Configuration Wizard

QNAP
TURBO NAS

iSCSI Quick Configuration Wizard

I want to create

- ☐ iSCSI Target with a mapped LUN
- ☐ iSCSI Target only
- ☒ iSCSI LUN only

NEXT CANCEL

3. LUN . LUN LUN LUN
" " .



iSCSI Quick Configuration Wizard

QNAP
TURBO NAS

Create an iSCSI LUN

LUN Allocation: ☒ Thin-Provisioning ☐ Instant Allocation i

LUN Name:

LUN Location: Free Size: 281.6GB

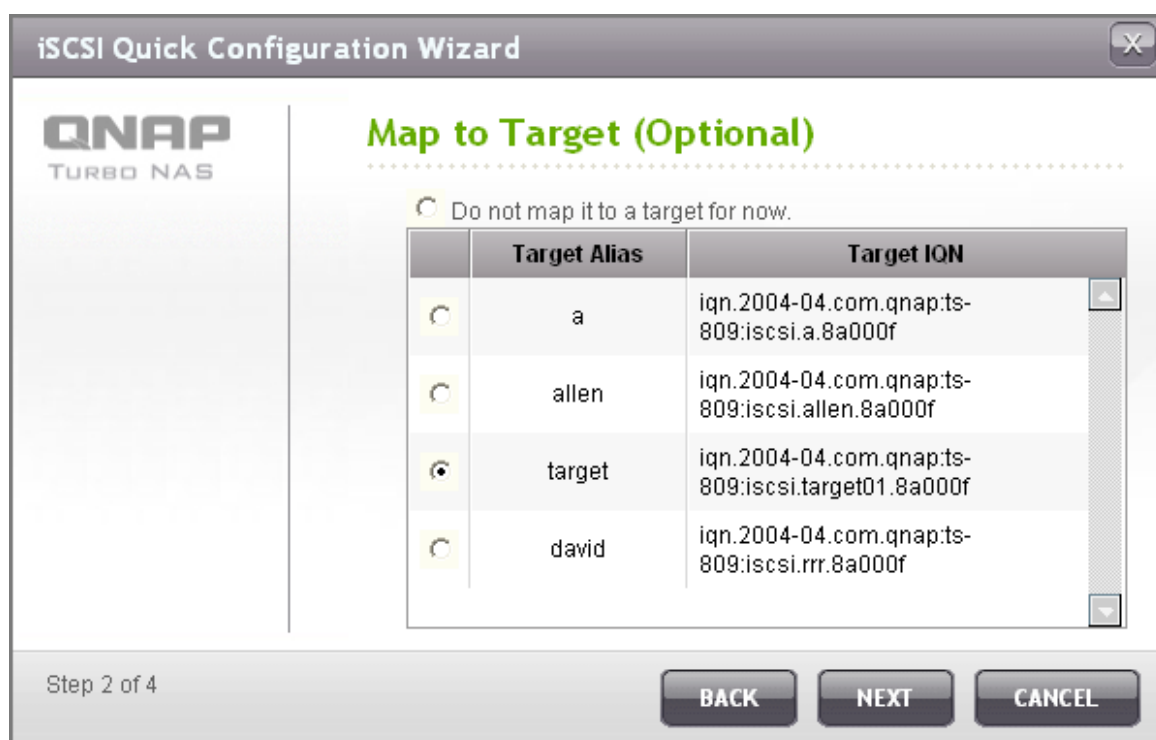
Capacity: GB

Step 1 of 4

NEXT CANCEL

4. LUN

“ LUN ”



The screenshot shows the 'iSCSI Quick Configuration Wizard' window, specifically the 'Map to Target (Optional)' step. The window has a title bar with a close button. On the left is the QNAP TURBO NAS logo. The main area has a green heading 'Map to Target (Optional)' followed by a dotted line. Below this is a radio button labeled 'Do not map it to a target for now.' To the right is a table with two columns: 'Target Alias' and 'Target IQN'. The table contains four rows with radio buttons in the first column. The 'target' row is selected. At the bottom, it says 'Step 2 of 4' and has three buttons: 'BACK', 'NEXT', and 'CANCEL'.

	Target Alias	Target IQN
<input type="radio"/>	a	iqn.2004-04.com.qnap:ts-809:iscsi.a.8a000f
<input type="radio"/>	allen	iqn.2004-04.com.qnap:ts-809:iscsi.allen.8a000f
<input checked="" type="radio"/>	target	iqn.2004-04.com.qnap:ts-809:iscsi.target01.8a000f
<input type="radio"/>	david	iqn.2004-04.com.qnap:ts-809:iscsi.rrr.8a000f

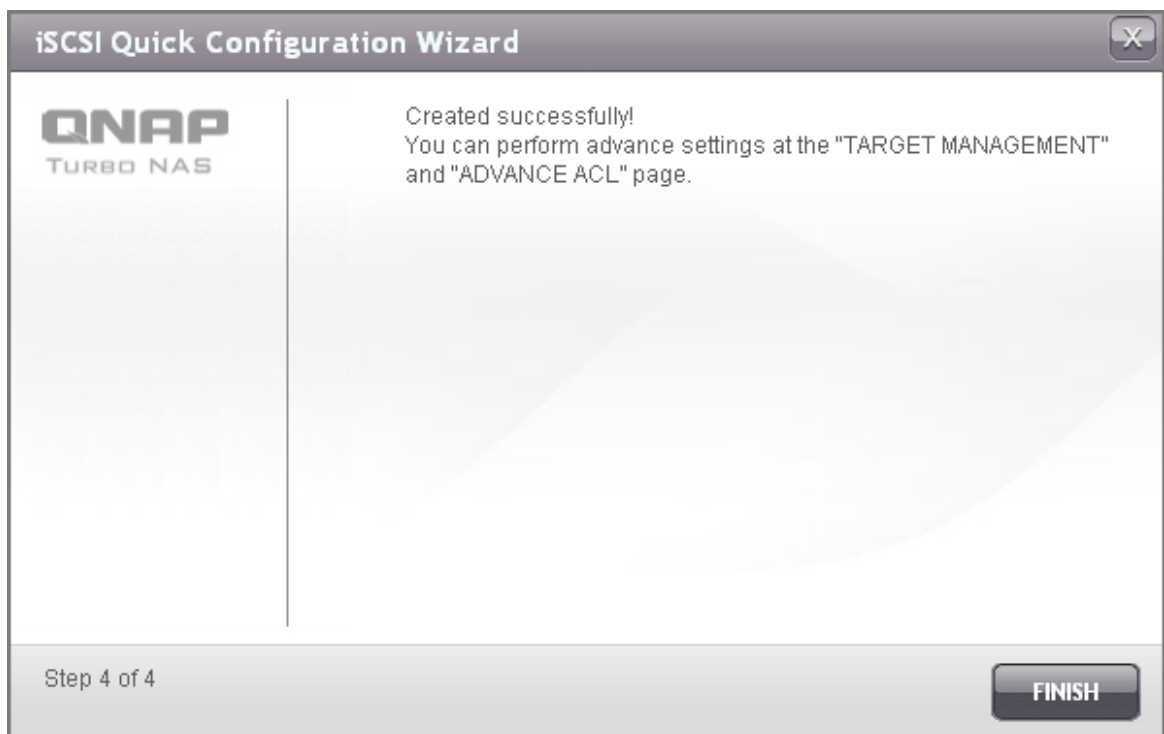
5.

“ ”



The screenshot shows the 'iSCSI Quick Configuration Wizard' window, specifically the 'Confirm Settings' step. The window has a title bar with a close button. On the left is the QNAP TURBO NAS logo. The main area has a green heading 'Confirm Settings' followed by a dotted line. Below this are the following settings: 'LUN Allocation: Thin-Provisioning', 'LUN Name: 002', 'LUN Location: /share/HDB_DATA', 'LUN Capacity: 1GB', and 'Map to Target: iqn.2004-04.com.qnap:ts-809:iscsi.target01.8a000f'. At the bottom, it says 'Step 3 of 4' and has three buttons: 'BACK', 'NEXT', and 'CANCEL'.

6. LUN



7. LUN iSCSI iSCSI

Target Management

QUICK CONFIGURATION WIZARD Quick Configuration Wizard will assist you to create an iSCSI target and LUN.

iSCSI Target List

	Alias (IQN)	Status	Action
	01 (iqn.2004-04.com:ts-239:iscsi.target01.8cbc6c)	Ready	
	02 (iqn.2004-04.com:ts-239:iscsi.target02.8cbc6c)	Ready	










Total: 2 | Display 10 entries per page. 1 / 1

Un-Mapped iSCSI LUN List

<input type="checkbox"/>	Name	Capacity	Action
<input type="checkbox"/>	002	1 GB	
<input type="checkbox"/>	003	1 GB [0%]	

Delete Total: 2 | Display 10 entries per page. 1 / 1

iSCSI		iSCSI
		iSCSI
		iSCSI
		iSCSI
LUN		LUN가
		LUN가

	
	
	LUN : , CHAP , : LUN , ,
	iSCSI
	LUN
	LUN
	LUN . LUN LUN , LUN “ iSCSI LUN ”
	LUN iSCSI “ iSCSI LUN ”
	iSCSI

LUN (3.2.0 Intel NAS)

LUN

1. iSCSI

LUN



()

iSCSI Target List			
	Alias (IQN)	Status	Action
	01 (iqn.2004-04.com:ts-239:iscsi.target01.8cbc6c) └ id:0 - 001 (1.00 GB)	Ready	
		Enabled	

2.



LUN

LUN

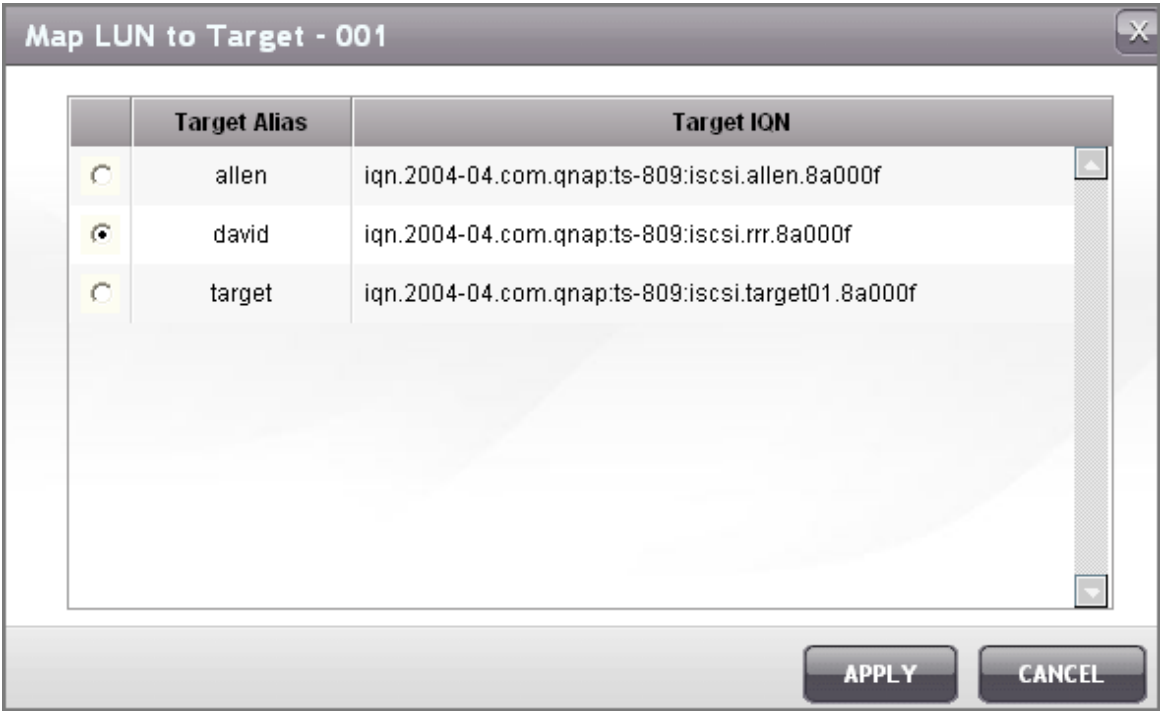
iSCSI LUN



LUN

iSCSI Target List			
	Alias (IQN)	Status	Action
	01 (iqn.2004-04.com:ts-239:iscsi.target01.8cbc6c) └ id:0 - 001 (1.00 GB)	Ready	
		Disabled	
	02 (iqn.2004-04.com:ts-239:iscsi.target02.8cbc6c)	Ready	
Total: 2 Display 10 entries per page. 1 / 1			
Un-Mapped iSCSI LUN List			
<input type="checkbox"/>	Name	Capacity	Action
<input type="checkbox"/>	002	1 GB	

3. LUN



4. LUN

iSCSI Target List			
	Alias (IQN)	Status	Action
	01 (iqn.2004-04.com:ts-239:iscsi.target01.8cbc6c) └ id:0 - 002 (1.00 GB)	Ready Enabled	

NAS iSCSI LUN , (Windows PC, Mac Linux) iSCSI 가 .

Windows

Microsoft iSCSI

NAS

iSCSI

NAS

iSCSI

LUN

OS

iSCSI

Windows iSCSI

Microsoft iSCSI Software Initiator v2.07 Windows OS 2000, 2003, XP

가 iSCSI

Windows Vista

Windows Server 2008

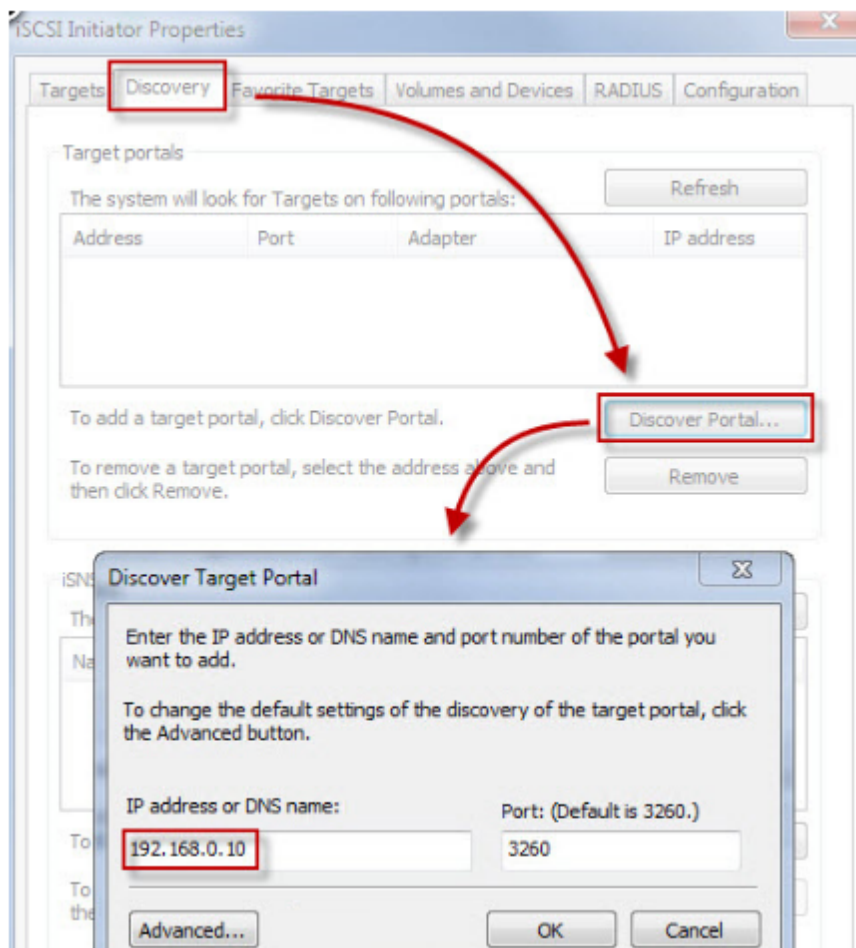
Microsoft iSCSI

가

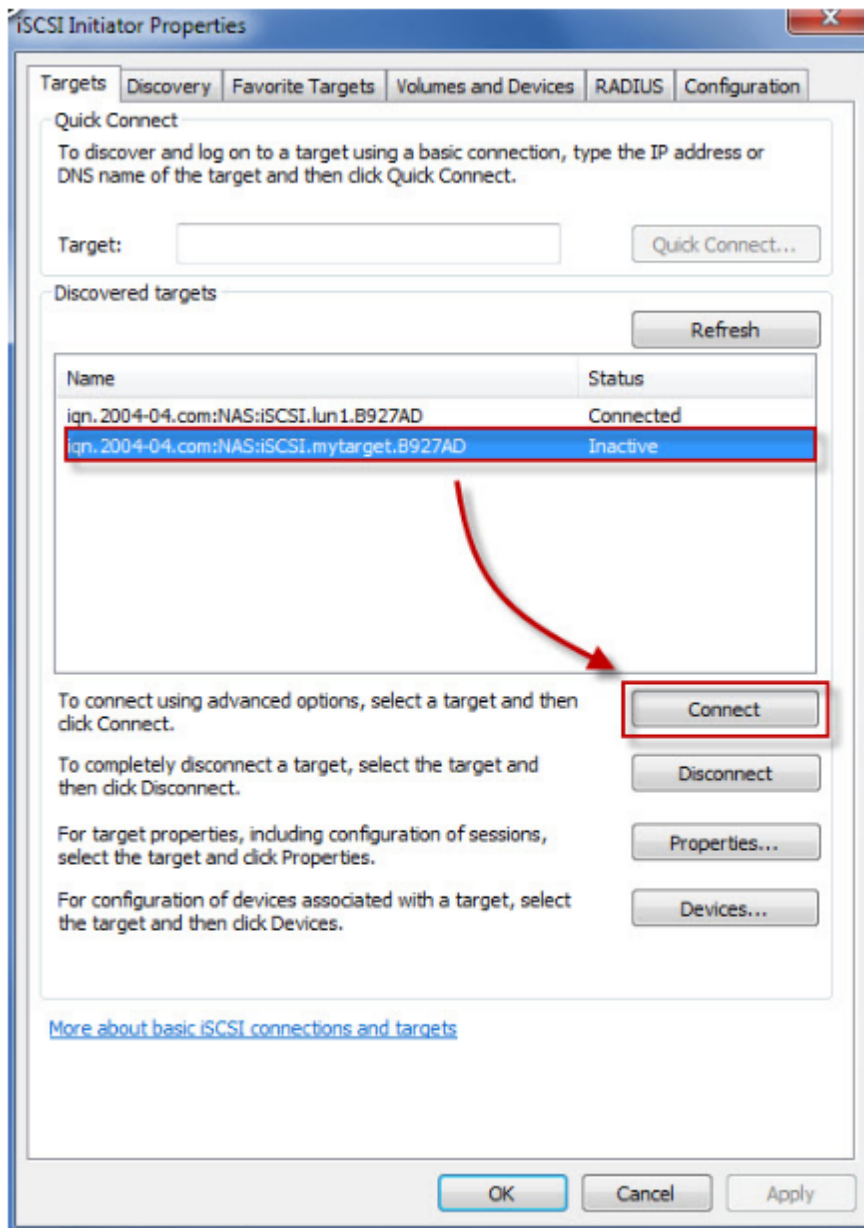
<http://www.microsoft.com/downloads/details.aspx?familyid=12cb3c1a-15d6-4585-b385-befd1319f825&displaylang=en>

'Control Panel()' > 'Administrative Tools()' iSCSI
() 'Add Portal(가)' NAS IP iSCSI

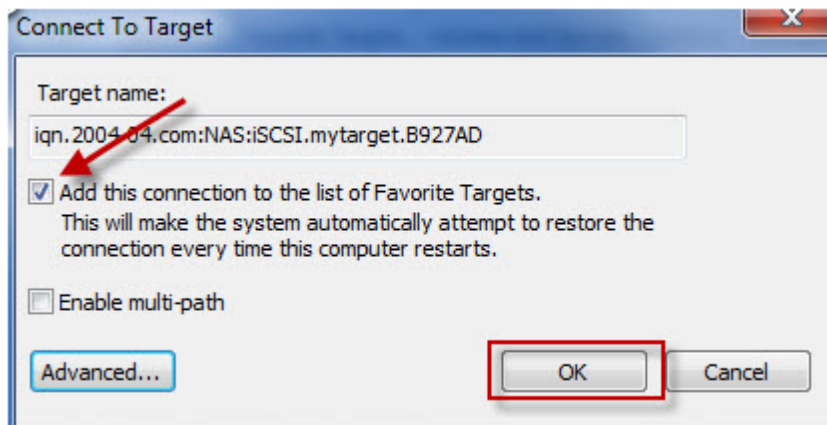
'Discovery



가 iSCSI 가 'Targets()'
'Connect()'



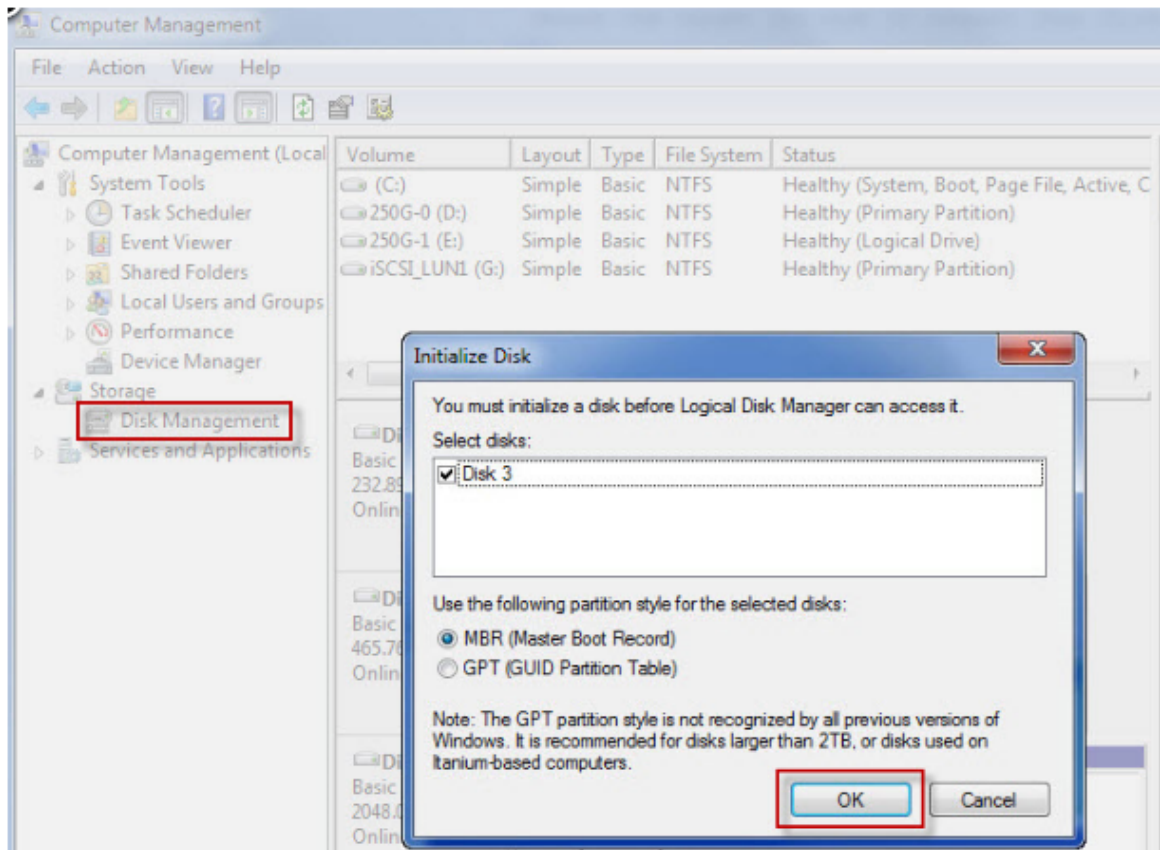
'Advanced()' 'OK()'

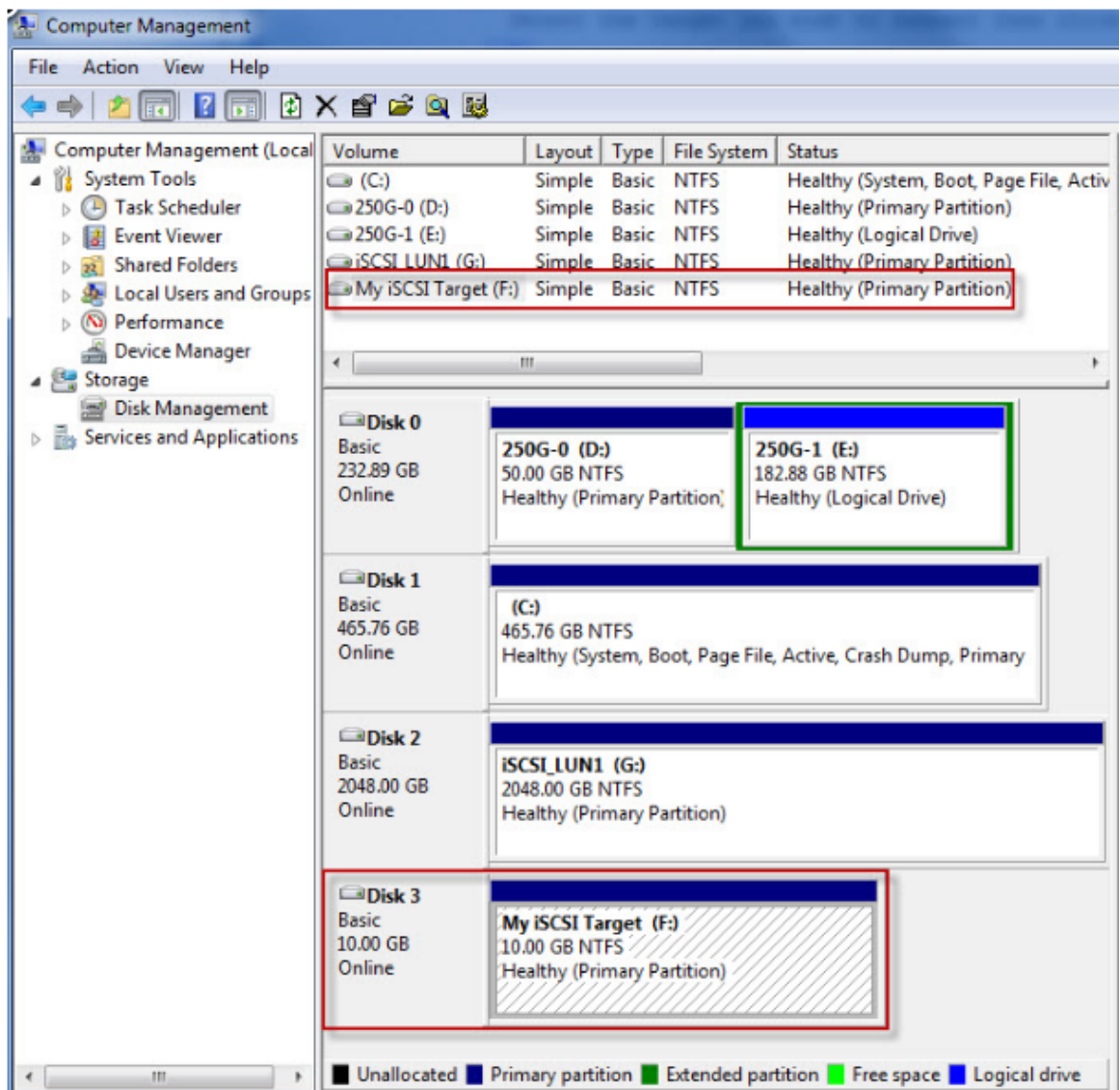


가 'Connected()'

Name	Status
iqn.2004-04.com:NAS:iSCSI.lun1.B927AD	Connected
iqn.2004-04.com:NAS:iSCSI.mytarget.B927AD	Connected

Windows
 가 가 . 'My Computer()' > 'Manage()'
 'Computer Management()' 'Disk Management()' 가
 . 'OK()'
 가 .





Mac OS Xtend SAN iSCSI NAS

가 Mac OS Xtend SAN iSCSI iSCSI (QNAP NAS) 가
 OS iSCSI . iSCSI NAS iSCSI LUN

Xtend SAN iSCSI Initiator

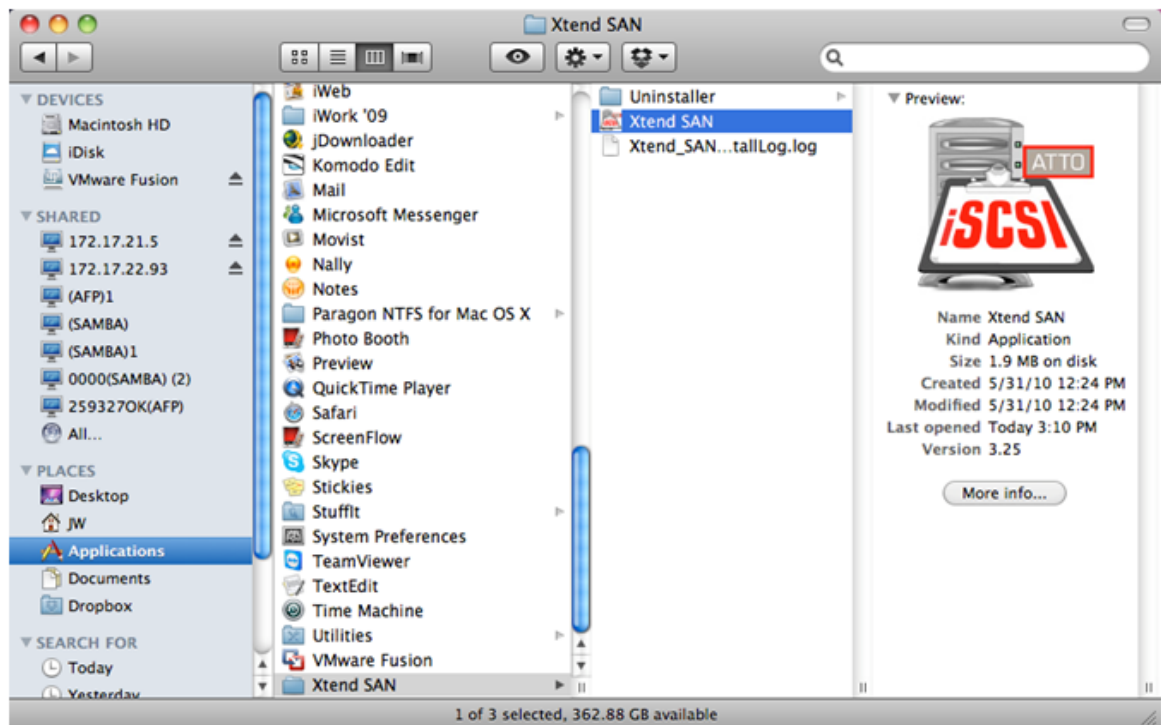
ATTO Mac OS X Xtend SAN iSCSI Initiator Mac 가 iSCSI

. Mac OS X 10.4.x - 10.6.x

: [http://](http://www.attotech.com/products/product.php?sku=INIT-MAC0-001)

www.attotech.com/products/product.php?sku=INIT-MAC0-001

Xtend SAN iSCSI Initiator “Applications ()”

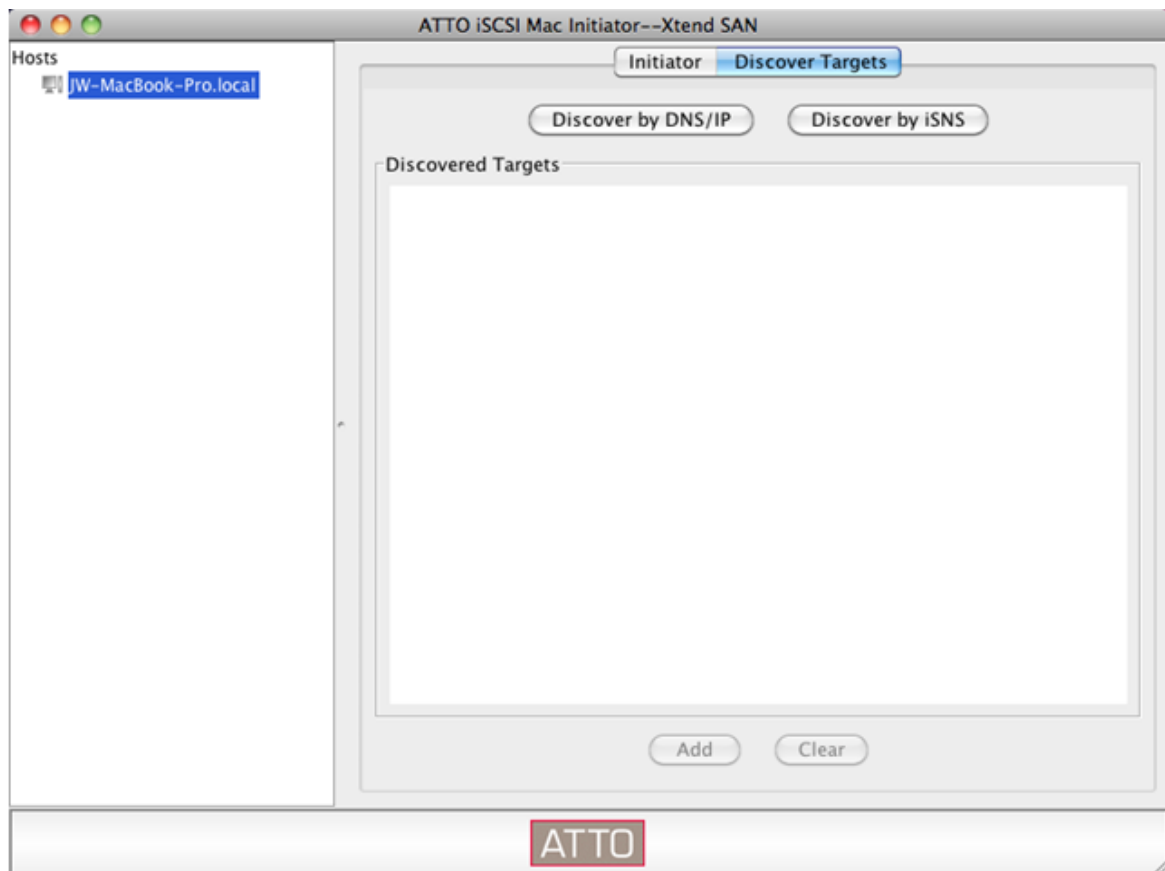


“Discover Targets()”

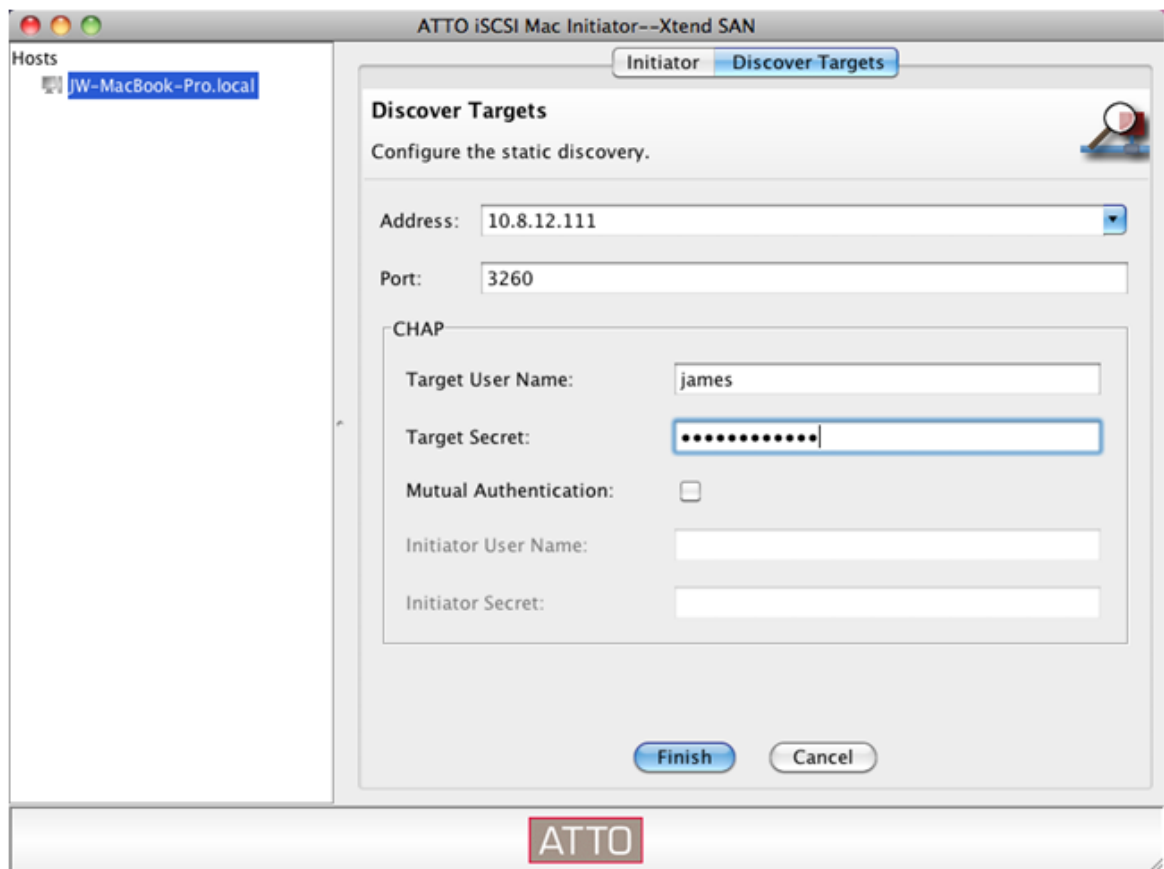
)” “Discover by iSNS(iSNS)”

“Discover by DNS/IP(DNS/IP

IP iSCSI



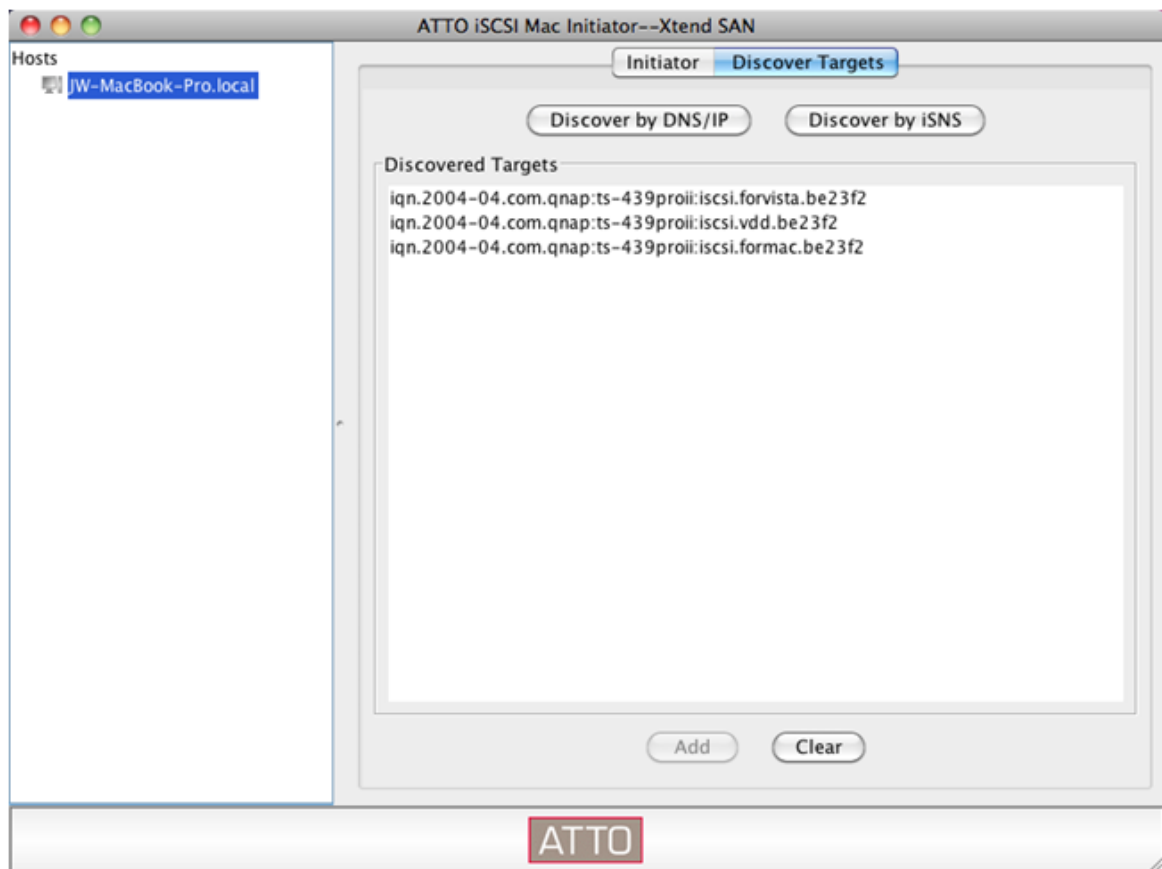
, iSCSI (: 3260), CHAP ()
“Finish()”



NAS

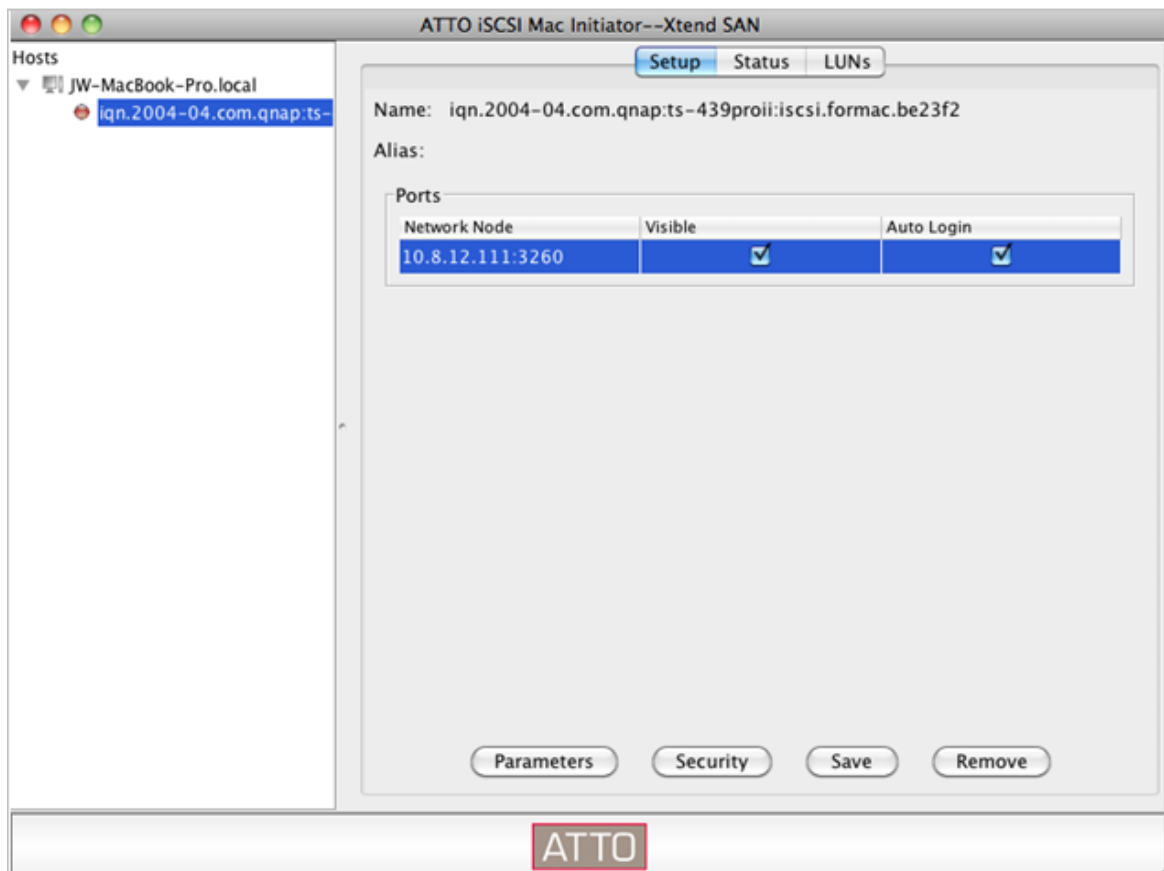
iSCSI

“Add(가) ”



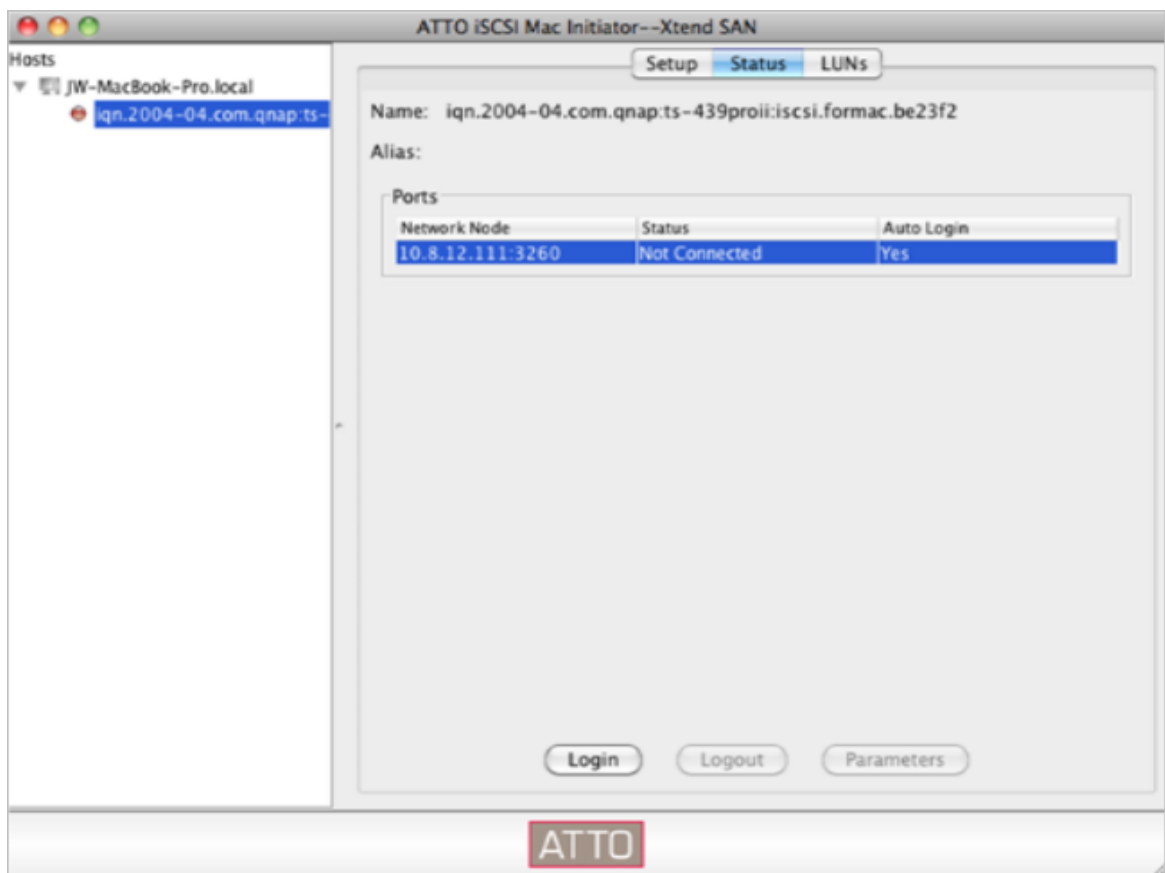
“Setup()”

iSCSI



“Status()”

“Login()”



iSCSI 가 Disk Utilities 'Initialize...()'



iSCSI Mac



Ubuntu Linux	Open- iSCSI Initiator	NAS
가 OS	Ubuntu Linux Open- iSCSI Initiator iSCSI	iSCSI (QNAP NAS) NAS iSCSI 가 LUN

Linux Open- iSCSI Initiator

Linux Open- iSCSI Initiator Ubuntu 8.04 LTS()
 iSCSI . Ubuntu <http://www.ubuntu.com/>
 Open- iSCSI : <http://www.open-iscsi.org/>

open- iscsi . Linux Open- iSCSI Initiator .

```
# sudo apt-get install open-iscsi
```

Linux Open- iSCSI Initiator iSCSI (QNAP NAS)
 node.session.auth.username & node.session.auth.password CHAP iscsid.conf
 가

```
# vi /etc/iscsi/iscsid.conf
```

```
open- iscsi  
# /etc/init.d/open-iscsi restart
```

(QNAP NAS), 가 3260 10.8.12.31 iSCSI

```
# iscsiadm -m discovery -t sendtargets -p 10.8.12.31:3260  
iSCSI  
# iscsiadm -m node
```

```
** 가 :  
# iscsiadm -m node --op delete --targetname THE_TARGET_IQN
```

```
open- iscsi 가  
# /etc/init.d/open-iscsi restart
```

가 : Login session [iface: default, target: iqn.2004-04.com:NAS:
 iSCSI.ForUbuntu.B9281B, portal: 10.8.12.31,3260] [OK]
 dmesg

```
# dmesg | tail
```

```
. /dev/sdb  
# fdisk /dev/sdb
```

Format the partition.

```
# mkfs.ext3 /dev/sdb1
```

```
# mkdir /mnt/iscsi
```

```
# mount /dev/sdb1 /mnt/iscsi/
```

I/O

```
# hdparm -tT /dev/sdb1
```

'iscsiadm'

:

```
# iscsiadm -m discovery --type sendtargets --portal HOST_IP
```

:

```
# iscsiadm -m node --targetname THE_TARGET_IQN --login
```

:

```
# iscsiadm -m node --targetname THE_TARGET_IQN --logout
```

:

```
# iscsiadm -m node --op delete --targetname THE_TARGET_IQN
```

ACL

3.2.0

Intel

NAS

Intel NAS TS- 239 Pro, TS- 239 Pro II, TS- 259 Pro, SS- 439 Pro, TS- 439 Pro, TS- 439 Pro II, TS- 439U - SP/RP, TS- 459 Pro, TS- 459U - SP/RP, TS- 509 Pro, TS- 559 Pro, TS- 639 Pro, TS- 659 Pro, SS- 839 Pro, TS- 859 Pro, TS- 809 Pro, TS- 809U- RP, TS- 859U- RP 가

LUN

NAS iSCSI

LUN

iSCSI

" ACL "

" 가 "

PORTAL MANAGEMENT

TARGET MANAGEMENT

ADVANCED ACL

LUN Masking

A connected iSCSI initiator is authenticated by Target ACL and LUN Masking in order to access the iSCSI LUNs mapped to the iSCSI targets on the NAS. (For detailed instructions, please click [here](#))

LUN Masking Policy List

Add a Policy

<input type="checkbox"/>	Policy Name	ION	Action
<input type="checkbox"/>	Default Policy		

Delete

Total: 1 | Display 10 entries per page.

1 / 1

- , : IQN NAS LUN
- / : 가 LUN
- : 가 LUN

Add a Policy

Define the LUN Masking policy for the initiator you input below.

Policy Name:

Initiator IQN:

Name	Read Only	Read/Write	Deny Access
000	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
001	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
002	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
abb	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

APPLY

iSCSI

LUN

iSCSI

LUN



:	LUN	NAS	LUN
---	-----	-----	-----

LUN Masking

A connected iSCSI initiator is authenticated by Target ACL and LUN Masking in order to access the iSCSI LUNs mapped to the iSCSI targets on the NAS. (For detailed instructions, please click [here](#))

LUN Masking Policy List

Add a Policy

<input type="checkbox"/>	Policy Name	IQN	Action
<input type="checkbox"/>	Default Policy		

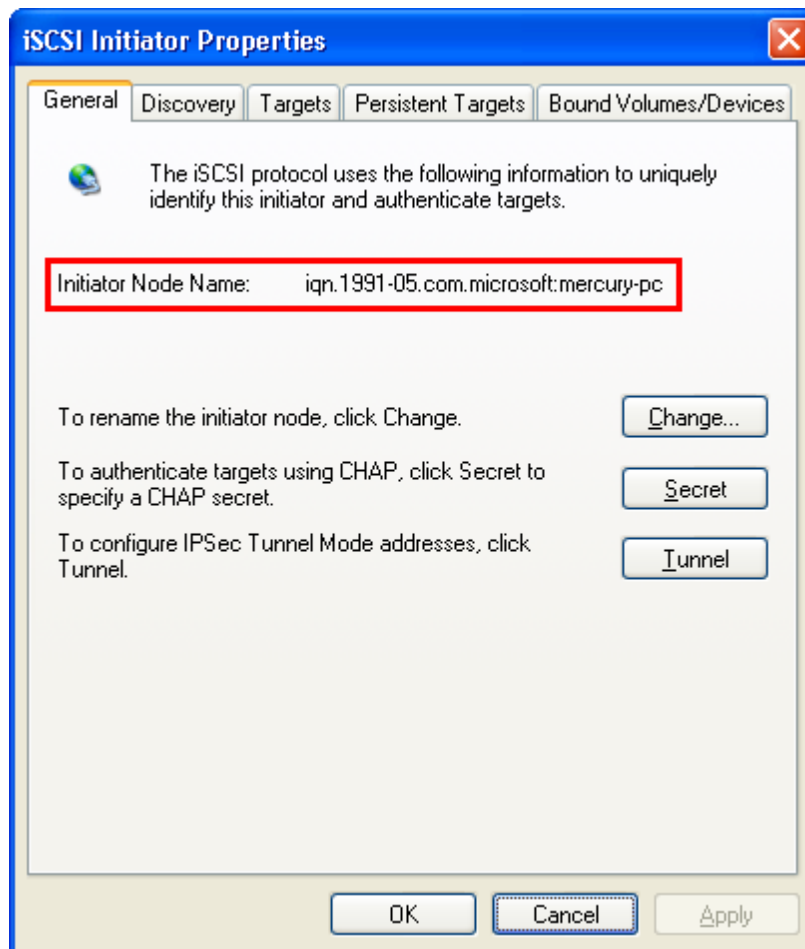
Delete Total: 1 | Display entries per page.

/ 1

: IQN
Microsoft iSCSI

?

IQN



4.2.6 가

QNAP NAS iSCSI 가

NAS 가

Virtual Disk

Add Virtual Disk

<input type="checkbox"/>	Name	File System	Total Size	Free Size	Status	Action
No virtual disk available.						

Delete

가 NAS 가 , iSCSI . "가 가"

Virtual Disk

Add Virtual Disk

<input type="checkbox"/>	Name	File System	Total Size	Free Size	Status	Action
No virtual disk available.						

Delete

IP (: 3260). " 가 "

Add Virtual Disk

Target Server IP: 10 . 8 . 10 . 39 Port : 3260

GET REMOTE DISK

Remote Disk Device

iqn.2004-04.com.qnap:SS-839:iSCSI.test.AABB1A

☐ Authentication

User Name:

Password:

APPLY
CANCEL



가

Virtual Disk

Add Virtual Disk

<input type="checkbox"/>	Name	File System	Total Size	Free Size	Status	Action
<input type="checkbox"/>	VirtualDisk1	Unknown	1024 MB	0 MB	Unmounted	

Delete

가

가 "

"

가

NAS

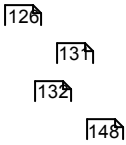
. NAS

8

가

4.3

NAS가



4.3.1

admin . admin

guest . "guest " guest .

anonymous
FTP Guest

NAS	NAS :
	NAS
1,024	TS-110, TS-210
2,048	TS-119, TS-219, TS-219P, TS-410
4,096	TS-419P, TS-410U, TS-419U, TS-239 Pro, TS-239 Pro II, TS-259 Pro, SS-439 Pro, TS-439 Pro, TS-439 Pro II, TS-439U-SP/RP, TS-459 Pro, TS-459U-SP/RP, TS-509 Pro, TS-559 Pro, TS-639 Pro, TS-659 Pro, SS-839 Pro, TS-859 Pro, TS-809 Pro, TS-809U-RP, TS-859U-RP

- 32

2

. (,),
 " / \ [] : ; | = , + * ? < > ` '
- 16

6

Users		
<div>Local Users</div> <div> <input type="text"/> <input type="button" value="Import Users"/> <input type="button" value="Create a New User"/> <input type="button" value="Create Multiple Users"/> </div>		
<input type="checkbox"/>	User Name	Quota Action
<input type="checkbox"/>	admin	--
<div> <input type="button" value="Delete"/> Total: 1 Display <div>10</div> entries per page. </div> <div> <input type="button" value="First"/> <input type="button" value="Previous"/> <div>1 / 1</div> <input type="button" value="Next"/> <input type="button" value="Last"/> </div>		

가

NAS 가

가

1. " 가 "

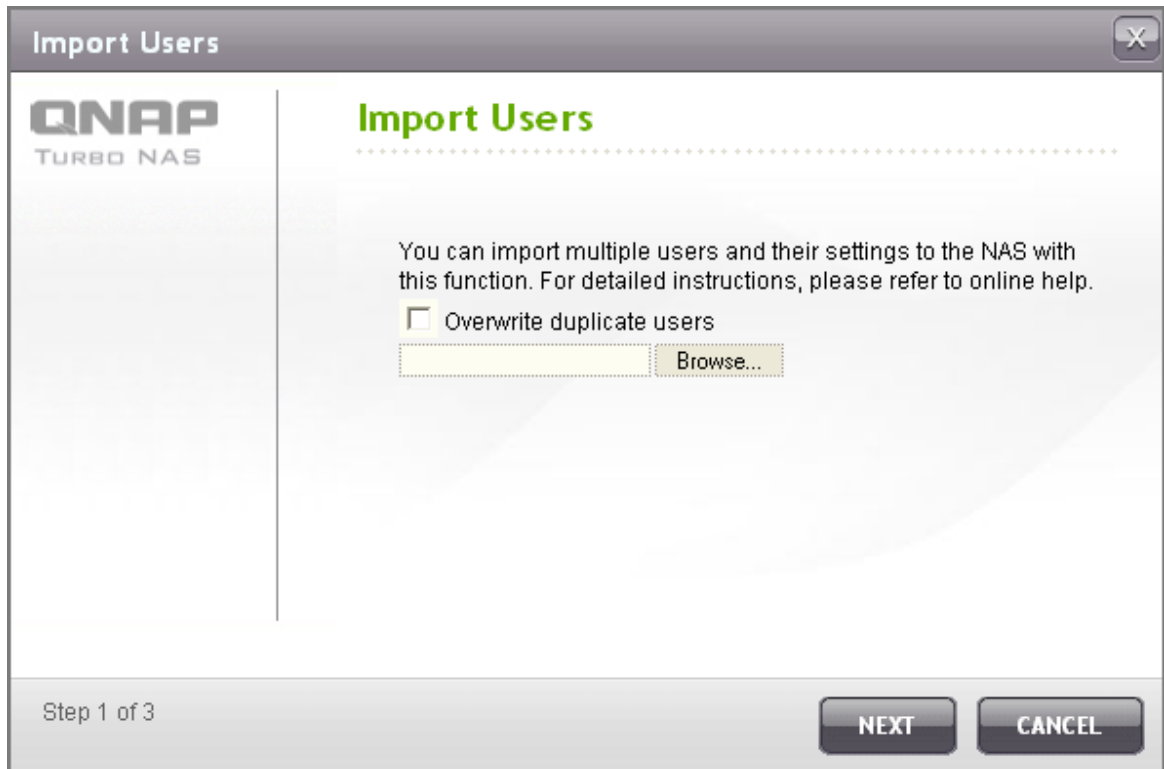


2.

" "

3.

" "



4. 가

Import Users

Import User Preview

User Name	Password	Quota	Group Name	Status
test	test	2000	test	--
user01	user01	2000	test	--
user02	user02	2000	test	--
user03	user03	No limit	test	--
user04	user04	2000	test	--
user05	user05	2000	test	--
--	user06	2000	test	Please enter User Name.
user07	user07	2000	test	--

Step 2 of 3

BACK

NEXT

CANCEL

5. 가





























Users

Local Users

Import Users

Create a New User

Create Multiple Users

<input type="checkbox"/>	User Name	Quota	Action
<input type="checkbox"/>	admin	--	   
<input type="checkbox"/>	test	--	   
<input type="checkbox"/>	user01	--	   
<input type="checkbox"/>	user02	--	   
<input type="checkbox"/>	user03	--	   
<input type="checkbox"/>	user04	--	   
<input type="checkbox"/>	user05	--	   

Delete

Total: 7 | Display 10 entries per page.

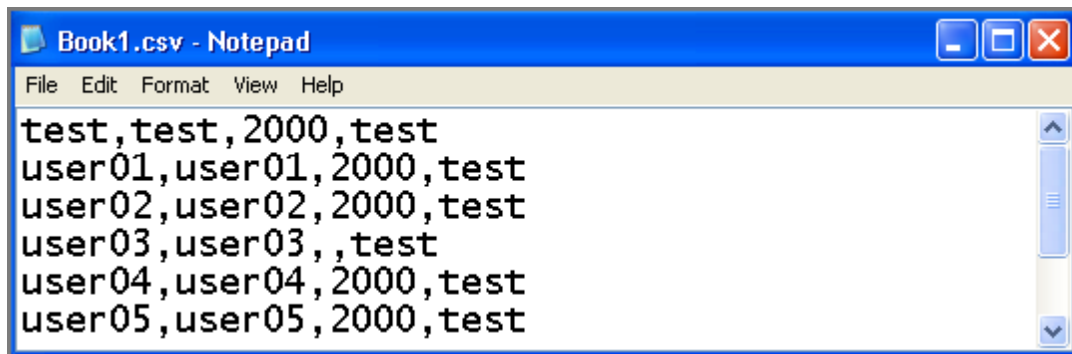
1

/ 1

NAS txt csv 가

txt

- 1.
2. “ ” : , (MB),
3. 가
4. 2 가 UTF-8 NAS



csv (Excel)

1. Excel
2. A:
B:
C: (MB)
D:
3. 가
4. csv csv UTF-8

	A	B	C	D
1	test	test	2000	test
2	user01	user01	2000	test
3	user02	user02	2000	test
4	user03	user03		test
5	user04	user04	2000	test
6	user05	user05	2000	test

4.3.2

Administrators

Administrators

everyone

everyone "everyone"

NAS	NAS
128	TS-110, TS-210
256	TS-119, TS-219, TS-219P, TS-410
512	TS-419P, TS-410U, TS-419U, TS-239 Pro, TS-239 Pro II, TS-259 Pro, SS-439 Pro, TS-439 Pro, TS-439 Pro II, TS-439U-SP/RP, TS-459 Pro, TS-459U-SP/RP, TS-509 Pro, TS-559 Pro, TS-639 Pro, TS-659 Pro, SS-839 Pro, TS-859 Pro, TS-809 Pro, TS-809U-RP, TS-859U-RP









256 2

.(,),
" / \ [] : ; | = , + * ? < > ` '

User Groups

Local Groups

Create a User Group

<input type="checkbox"/>	Group Name	Action
<input type="checkbox"/>	administrators	  
<input type="checkbox"/>	everyone	  
<input checked="" type="checkbox"/>	test	  

Delete

Total: 3 | Display 10 entries per page.

1

/1

4.3.3

가

NAS

NAS

	NAS
256	TS-110, TS-119, TS-210, TS-219, TS-219P, TS-410
512	TS-419P, TS-410U, TS-419U, TS-239 Pro, TS-239 Pro II, TS-259 Pro, SS-439 Pro, TS-439 Pro, TS-439 Pro II, TS-439U-SP/RP, TS-459 Pro, TS-459U-SP/RP, TS-509 Pro, TS-559 Pro, TS-639 Pro, TS-659 Pro, SS-839 Pro, TS-859 Pro, TS-809 Pro, TS-809U-RP, TS-859U-RP

Share Folders

SHARE FOLDERS

ISO SHARE FOLDERS

FOLDER AGGREGATION

Shares

New Share Folder

Restore Default Network Shares

<input type="checkbox"/>	Folder Name	Size	Folders	Files	Hidden	Action
<input type="checkbox"/>	Download	29.58 MB	28	33	No	
<input type="checkbox"/>	Multimedia	19.87 GB	346	3994	No	
<input type="checkbox"/>	Network Recycle Bin 1	13.45 KB	4	2	No	
<input type="checkbox"/>	Public	5.49 GB	1446	16459	No	
<input type="checkbox"/>	Recordings	25.45 KB	19	2	No	
<input type="checkbox"/>	Usb	13.45 KB	4	2	No	
<input type="checkbox"/>	Web	21.06 MB	86	1076	No	
<input checked="" type="checkbox"/>	root	170.08 GB	2973	64813	No	

Delete

Total: 8 | Display 10 entries per page.

1 / 1

'New Share Folder()'

Shares

[New Share Folder](#) [Restore Default Network Shares](#)

<input type="checkbox"/>	Folder Name	Size	Folders	Files	Hidden	Action
<input type="checkbox"/>	Download	29.58 MB	28	33	No	
<input type="checkbox"/>	Multimedia	19.87 GB	346	3994	No	
<input type="checkbox"/>	Network Recycle Bin 1	13.45 KB	4	2	No	
<input type="checkbox"/>	Public	5.49 GB	1446	16459	No	
<input type="checkbox"/>	Recordings	25.45 KB	19	2	No	
<input type="checkbox"/>	Usb	13.45 KB	4	2	No	
<input type="checkbox"/>	Web	21.06 MB	86	1076	No	
<input checked="" type="checkbox"/>	root	170.08 GB	2973	64813	No	

[Delete](#) Total: 8 | Display entries per page. 1 / 1

'Next()'

Create A Share Folder ✕

Create a Share Folder

This wizard guides you through the following settings:

- Share Folder Settings
- Privilege

To continue, click **Next**. To exit, click **Cancel**.

Step 1 of 7

NEXT

CANCEL

- Folder Name(): " / \ [] : ; | = , + * ? < > ` ' .
- Hide Folder(): Microsoft Networking 가
- Lock file (oplocks)((oplocks)): 가 Windows . Oplocks (oplock)
- Path(): , oplocks NAS가
- Description():

Create A Share Folder

Share Folder Settings

Folder Name:

✓

Disk Volume:

▼

Hide Folder:
☐ Yes
 ☒ No
 i

Lock file (oplocks):
☒ Yes
 ☐ No

Path:
☒ Specify path automatically
 ☐ Enter path manually

Description:


Step 2 of 7

BACK

NEXT

CANCEL

Create A Share Folder



Privilege

You can select one of the following methods to configure the user access right to the network share folder:

- ☐ Full access (Grant full access right for everyone)
- ☒ By User
- ☐ By User Group
- ☐ Only the system administrator (admin) has full access. General users have **Read Only** access.

Guest Access Right:

- ☒ Deny Access
- ☐ Read only
- ☐ Read/Write

Step 3 of 7

BACK

NEXT

CANCEL

Create A Share Folder

Access Control (By User)

Total: 7

1 / 1

User Name	Read only	Read/Write	Deny Access
admin	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
user01	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
user02	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
user03	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
user04	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
user05	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Step 4 of 7


BACK

NEXT

CANCEL

'Next()'

Create A Share Folder



Confirm Settings

Folder Name:	test
Hide Folder:	No
Lock file (oplocks):	Yes
Path:	Mirroring Disk Volume: Drive 1 2 /test
Description:	---
Access right:	By User
Access User/User Group:	admin, test, user02, user03, user04, user05 ...

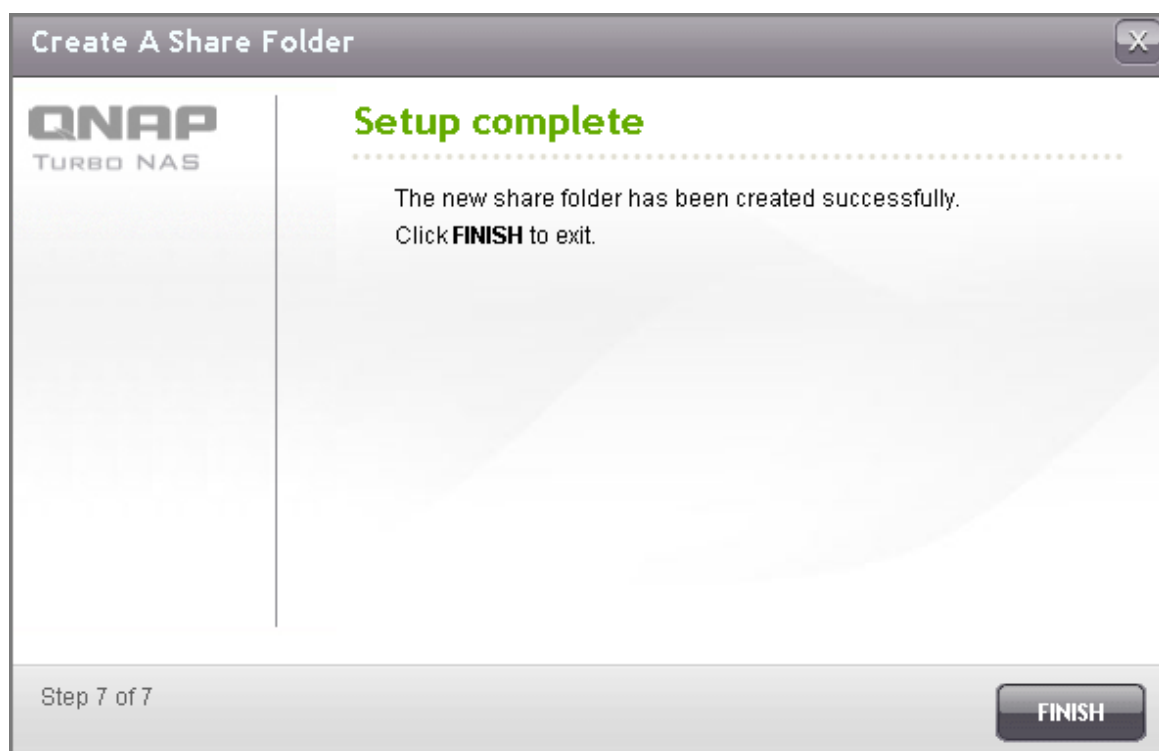
Step 6 of 7

BACK

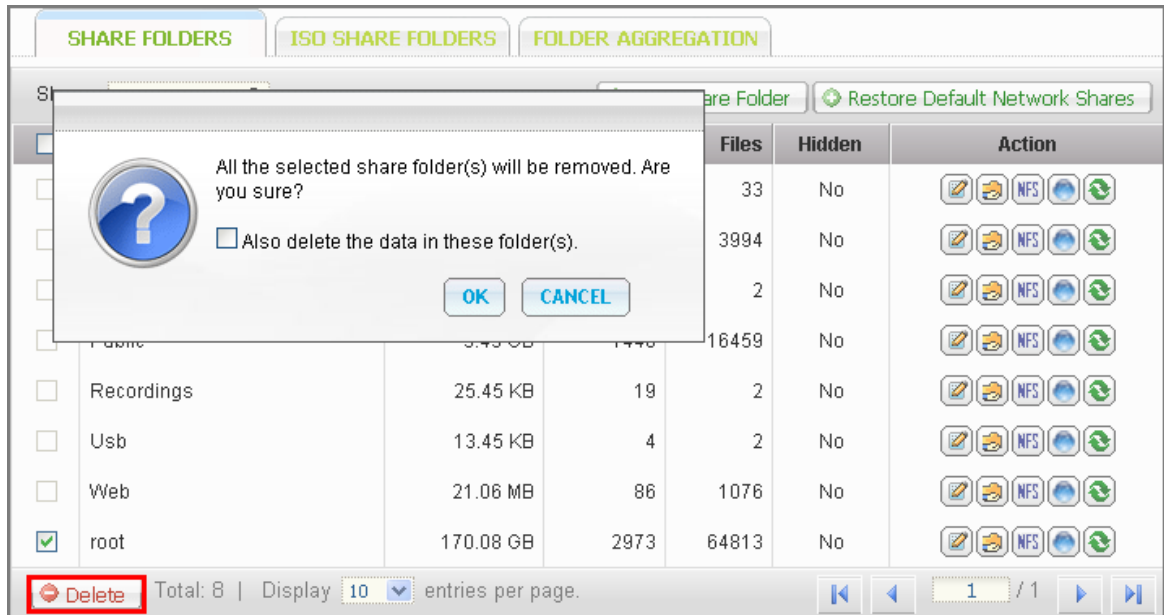
NEXT

CANCEL

'Finish()'



'Delete()' . 'Also delete the data in these
 folder(s)(())'
 가 NAS



ISO

ISO NAS ISO NAS

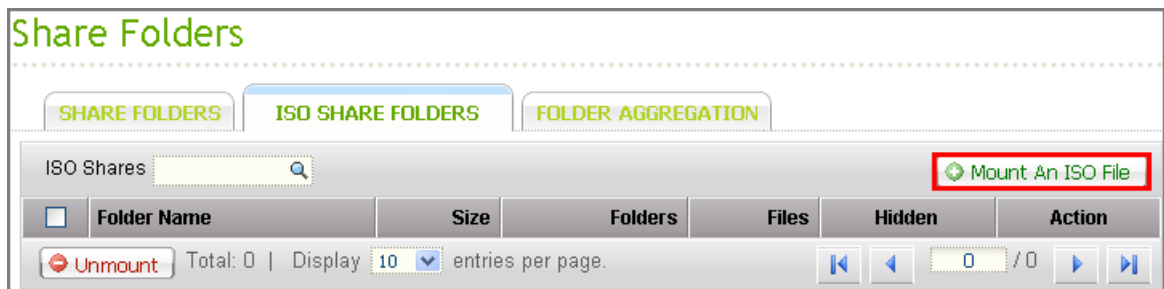
256 * ISO

*TS-110, TS-119, TS-210, TS-219, TS-219P, TS-410 256

ISO 256

ISO NAS

1. NAS 'Share Folders()' > 'ISO SHARE FOLDERS(ISO)'
'Mount An ISO File(ISO)'



2. NAS IOS 'Next()'



Create An ISO Share Folder


QNAP

TURBO NAS

ISO Share Folder Settings

Folder Name:

Hide Folder:

☐ Yes ☒ No 

Description:

Step 2 of 7

BACK

NEXT

CANCEL

Create An ISO Share Folder

X

QNAP
TURBO NAS

Privilege

You can select one of the following methods to configure the user access right to the network share folder:

☒ Grant read-only access right for administrators only

☐ By User

☐ By User Group

Guest Access Right:

☒ Deny Access

☐ Read only

Step 3 of 7

BACK

NEXT

CANCEL

5. 'Next()'

Create An ISO Share Folder



Confirm Settings


Folder Name: NAS
Hide Folder: No
Path: /NAS
Description: ---
Access right: Grant read-only access right for administrators only
Access User/User Group:

Step 6 of 7

BACKNEXTCANCEL

6. 'Finish()'

Create An ISO Share Folder



Setup complete

The new share folder has been created successfully.
Click **FINISH** to exit.

Step 7 of 7

FINISH

7.

```
'Action( )'
```

SMB, AFP, NFS, WebDAV

SHARE FOLDERS

ISO SHARE FOLDERS

FOLDER AGGREGATION

ISO Shares

<input type="checkbox"/>	Folder Name	Size	Folders	Files	Hidden	Action
<input type="checkbox"/>	NAS	429.94 MB	37	638	No	<input type="button" value="Edit"/> <input type="button" value="Delete"/> <input type="button" value="NFS"/> <input type="button" value="SMB"/>

Total: 1 | Display entries per page.

/ 1

NAS

ISO

190

Microsoft

NAS

NAS

가 NAS

10

NAS

: Microsoft

1.

SHARE FOLDERS

ISO SHARE FOLDERS

FOLDER AGGREGATION

Folder Aggregation

☒ Enable Folder Aggregation

Enable this function will allow you to aggregate all shared folders in local network into a " portal folder " in your NAS.

Folder Aggregation is for Microsoft Network/ Samba Service ONLY.

APPLY

Folder Aggregation List

Create A Portal Folder

Import/ Export Folder Tree

☐ Portal Folder Name

Action

Delete

2. “ ”

Folder Aggregation List

Create A Portal Folder

Import/ Export Folder Tree


☐ Portal Folder Name

Action


Delete


3.

Create A Portal Folder



Create A Portal Folder

Folder Name 

Hide Folder: ☐ Yes ☒ No 

Comment:

Step 1 of 1

APPLY

CANCEL

4. 

: 가 , NAS AD

Folder Aggregation List

<input type="checkbox"/>	Portal Folder Name	Action
<input type="checkbox"/>	Shares	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

Remote Folder Link X

Remote Folder Link

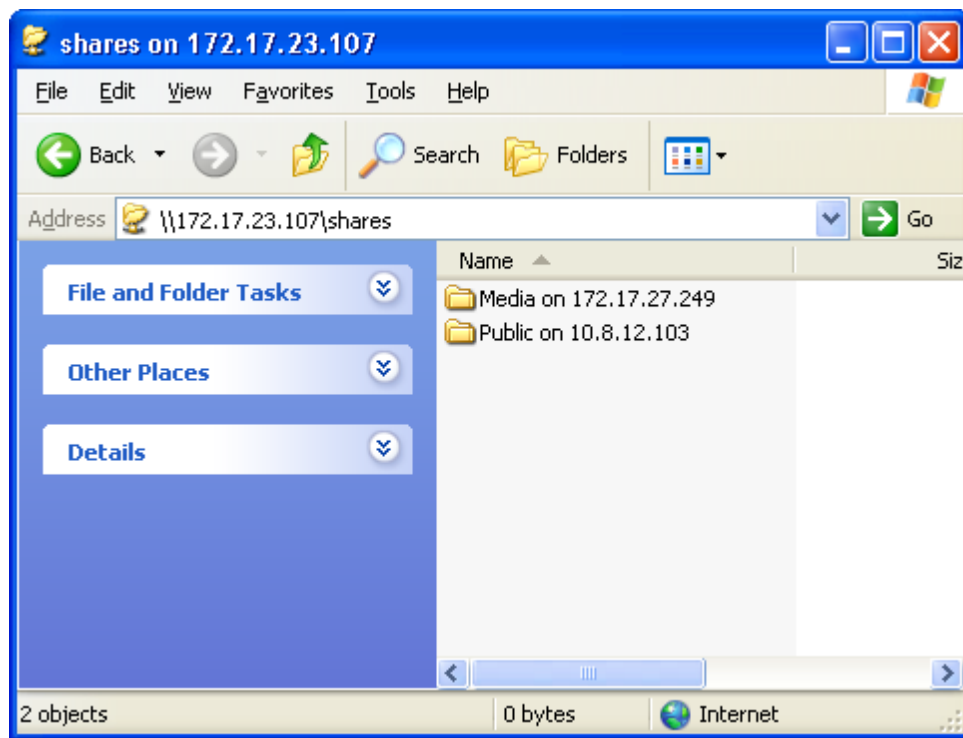
Portal Folder Name: Shares

Link	Name	Host Name	Remote Share Folder
1	Public on 10.8.12.103	10.8.12.103	Public
2	dia on 172.17.27.249	172.17.27.249	Media
3			
4			
5			
6			
7			
8			
9			
10			

Step 1 of 1

5.

NAS



4.3.4

Quota

Quota

☒ Enable quota for all users

Quota size on the disk MB

Note: Individual user quota size can be changed in [Users - Quota Settings \[Users\]](#)

APPLY

'GENERATE()' CSV

'DOWNLOAD()'

Local Users

Mirroring Disk Volume: Drive 1 2

Users	Quota Size	Used Size	Status
admin	--	167 MB	No size limitation
test	1.95 GB	0 MB	Available1.95 GB
user01	1.95 GB	0 MB	Available1.95 GB
user02	1.95 GB	0 MB	Available1.95 GB
user03	1.95 GB	0 MB	Available1.95 GB
user04	1.95 GB	0 MB	Available1.95 GB
user05	1.95 GB	0 MB	Available1.95 GB
guest	1.95 GB	0 MB	Available1.95 GB

Total: 8 | Display 10 entries per page.

GENERATE

DOWNLOAD

Note: 2010_05_12_Local_User_Quota_Volume1.csv is ready to be downloaded.

4.4

Microsoft	150
Apple	154
NFS	155
FTP	158
Telnet/ SSH	160
SNMP	161
(Web Server)	163
	188

4.4.1 Microsoft

Microsoft : Microsoft Windows

Microsoft Networking

MICROSOFT NETWORKING

ADVANCED OPTIONS

Microsoft Networking

☒ Enable file service for Microsoft networking

- ☒ Standalone Server
 - Server Description (Optional):
 - Workgroup:
- ☐ AD Domain Member (For detailed instructions, please [click here](#))
 - Server Description (Optional):
 - Domain NetBIOS Name:
 - AD Server Name:
 - Domain:
 - Organization Unit (Optional):
 - Domain Administrator Username:
 - Domain Administrator Password:

APPLY

Standalone

AD

NAS Windows 2003 AD(Active Directory) AD

IT

-

가 NAS Microsoft Windows OS NAS
Microsoft Network Services

-

NAS가 Microsoft Windows

- AD

AD AD

-

Ø Microsoft AD , ,

NAS Active Directory 306

MICROSOFT NETWORKING
ADVANCED OPTIONS

Advanced Options

☐ Enable WINS server
☐ Use the specified WINS server

WINS server IP address:

0

0

0

0

☒ Local Master Browser
☐ Allow only NTLMv2 authentication.

Name Resolve Priority:
DNS only

☒ Login style: DOMAIN\USERNAME instead of DOMAIN+USERNAME for FTP, AFP, & Web File Manager
☐ Automatically register in DNS

APPLY

WINS

WINS , IP . NAS WINS IP
WINS 가 , WINS IP

Windows PC 가
가
가 , NAS 가

NTLMv2

NMLMv2 NT LAN Manager 2 , Microsoft Networking
NTLMv2 NTLM(NT LAN Manager)
NTLMv2

NAS WINS WINS 가 , DNS WINS
 . WINS가 'Try WINS then DNS
 (WINS DNS)'가 DNS가
 .
 : FTP, AFP + \
 Active Directory :
 Windows : \
 FTP: +
 : +
 AFP: +
 (domain\username) AFP, FTP
 NAS
Automatically register in DNS(DNS):
 , NAS가 DNS. DNS NAS DNS . NAS
 IP NAS가 DNS IP .

4.4.2 Apple

Mac NAS , AppleTalk .

AppleTalk 가

(*)

(*)

NAS

Apple Networking

Apple Networking

☒ Enable Apple Filing Protocol

Zone: *

APPLY

4.4.3 NFS

Linux NAS NFS .

NFS Service

NFS Service

☒ Enable NFS Service

You can set the allowed domain name and the access authority in Share Folder Management.

[Click here to set the NFS access right of the network share.](#)

APPLY

NAS NFS 'Access Right Management(')' >

'Share Folders(')' . 'Action(')' NFS .

Home >> Access Right Management >> Share Folders

Welcome admin | Logout

English

Share Folders

SHARE FOLDERS FOLDER AGGREGATION


Shares

<input type="checkbox"/>	Folder Name	Size	Folders	Files	Hidden	Action
<input type="checkbox"/>	Network Recycle Bin 1	4 KB	0	0	No	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> NFS <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	Public	732.1 MB	20	5302	No	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> NFS <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	Qdownload	571.74 KB	6	6	No	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> NFS <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	Qmultimedia	31.2 GB	4137	33966	No	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> NFS <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	Qrecordings	4 KB	0	0	No	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> NFS <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	Qusb	4 KB	0	0	No	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> NFS <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	Qweb	18.03 MB	813	6079	No	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> NFS <input type="checkbox"/> <input type="checkbox"/>
<input checked="" type="checkbox"/>	rei	28.18 GB	1442	21613	Yes	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> NFS <input type="checkbox"/> <input type="checkbox"/>
<input checked="" type="checkbox"/>	root	73.13 GB	6434	67256	No	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> NFS <input type="checkbox"/> <input type="checkbox"/>

Total: 9 | Display 10 entries per page. 1 / 1

- 'No limit()' 'Read only()' NFS
- IP
- No limit(): 가
 - Read only(): 가
 - Deny access():

NFS Access Control



NFS Access Control

You can set the NFS access right of the network share.

Network Share Name: Public

Access Right: No limit

Allowed IP Address or D No limit
Read only
Deny access

10.8.12.12

Note: Please make sure the format you enter is correct. An incorrect format can lead to access error.

Step 1 of 1

APPLY **CANCEL**

Linux NAS , NFS .

`mount -t nfs <NAS IP>:/<Network Share Name> <Directory to Mount>`

 , NAS IP 가 192.168.0.1 /mnt/pub “ (public) ”

`mount -t nfs 192.168.0.1:/public /mnt/pub`

 : “ (root) ” .

 id , .

4.4.4 FTP

FTP

FTP

FTP Service

General

☒ Enable FTP Service

Protocol Type:

☒ FTP (standard)

☐ FTP with SSL/TLS (Explicit)

Port Number:

21

Unicode Support:

☐ Yes☒ No

Enable Anonymous:

☐ Yes☒ No

Note:

If your FTP client does not support Unicode, please select "No" for Unicode Support and select a supported filename encoding from [\[Filename Encoding\]](#) under [General Settings] so that the folders and files on FTP can be properly shown.

Connection

Maximum Number of all FTP connections:

30

Maximum Number of Connections For a Single Account:

10

☐ Enable FTP transfer limitation

Maximum upload rate (KB/s):

0

 KB/s

Maximum download rate (KB/s):

0

 KB/s

Advanced

Passive FTP Port Range:

☒ Use the default port range (55536 - 56559)

☐ Define port range:

55536

 -

56559

☐ Respond with external IP address for passive FTP connection request

External IP address:

APPLY

NAS FTP

. IE

ftp://[NAS IP]

FTP

FTP

SSL/TLS

FTP

FTP

/ “ ” FTP
 “ ”> “ ” OS FTP 가
 , NAS
 가 NAS FTP
 가 가
 FTP
 (55536-56559) 1024
 FTP
 FTP , /
 FTP IP
 FTP FTP 가 , 가 WAN FTP
 FTP 가 IP
 가 FTP

4.4.5 Telnet/ SSH

SSH ("admin")
(: Putty)
SSH
SFTP(Secure File Transfer Protocol)
'Allow SSH connection(SSH)'

Telnet / SSH

Telnet / SSH

After enabling this option, you can access this server via Telnet or SSH connection. (Only the account admin can login remotely.)

☐ Allow Telnet connection
Port Number: 13131

☒ Allow SSH connection
Port Number: 22

☒ Enable SFTP

APPLY

4.4.6 SNMP

SNMP(Simple Network Management Protocol) NAS SNMP 가
 PC SNMP (SNMP) NAS ,
 가 NAS (SNMP) SNMP

:

SNMP	SNMP
	SNMP IP 3
SNMP MIB()	MIB SNMP NAS ASCII . SNMP MIB (NAS) MIB
(SNMP V1/V2)	SNMP NAS SNMP SNMP
SNMP V3	NAS SNMP 3 가

SNMP Settings

SNMP

After enabling this service, the NAS will be able to report information via SNMP to the managing systems.

☒ Enable SNMP Service

Port Number:

SNMP Trap Level: ☐ Information ☐ Warning ☐ Error

Trap Address 1:

Trap Address 2:

Trap Address 3:

SNMP Version: 

Community:

APPLY

SNMP MIB

To install the MIB to your managing systems, click **[Download]**.

DOWNLOAD

4.4.7 (Web Server)

NAS HTML

. Joomla!, PHP

MySQL

가

Web Server

WEB SERVER

VIRTUAL HOST

Web Server

After enabling this function, you can upload the webpage files to "Web" network share to publish your website.

☒ Enable Web Server ⓘ

Port Number:

register_globals: ☐ On ☒ Off

☐ Enable Secure Connection (SSL)

Port Number:

☐ Enable WebDAV

☒ Show service link on the login page

After enabling this service, click the following link to enter to Web Server.

<http://10.8.12.46:80/>

APPLY

php.ini Maintenance

☐ php.ini Maintenance

The file **php.ini** is the system configuration file of Web Server. After enabling this function, you can edit, upload or restore this file. It is recommended to use the system default setting.

1. 80

2. :

- register_globals
register_globals
PHP register_globals register_globals
- php.ini
php.ini , , php.ini

: PHP mail() “ ’ “ ” SMTP

- (SSL)
SSL

3. HTML NAS (Qweb/ Web) . index.html, index.htm index.php
가

4. “ ” http://NAS IP/ NAS “ ”
가 , [http://NAS IP:8080]
NAS

WebDAV

WebDAV(Web-based Distributed Authoring and Versioning) HTTP(S)

NAS PC(Windows XP Vista) 가
NAS PC , NAS WebDAV

WebDAV

Share Folders

SHARE FOLDERS

FOLDER AGGREGATION

Shares

New Share Folder

Restore Default Network Shares

<input type="checkbox"/>	Folder Name	Size	Folders	Files	Hidden	Action
<input type="checkbox"/>	Network Recycle Bin 1	4 KB	0	0	No	
<input type="checkbox"/>	Public	732.1 MB	20	5302	No	
<input type="checkbox"/>	Qdownload	10.21 KB	1	4	No	
<input type="checkbox"/>	Qmultimedia	31.19 GB	4135	33889	No	
<input type="checkbox"/>	Qrecordings	4 KB	0	0	No	
<input type="checkbox"/>	Qusb	4 KB	0	0	No	
<input type="checkbox"/>	Qweb	4 KB	0	0	No	

Delete

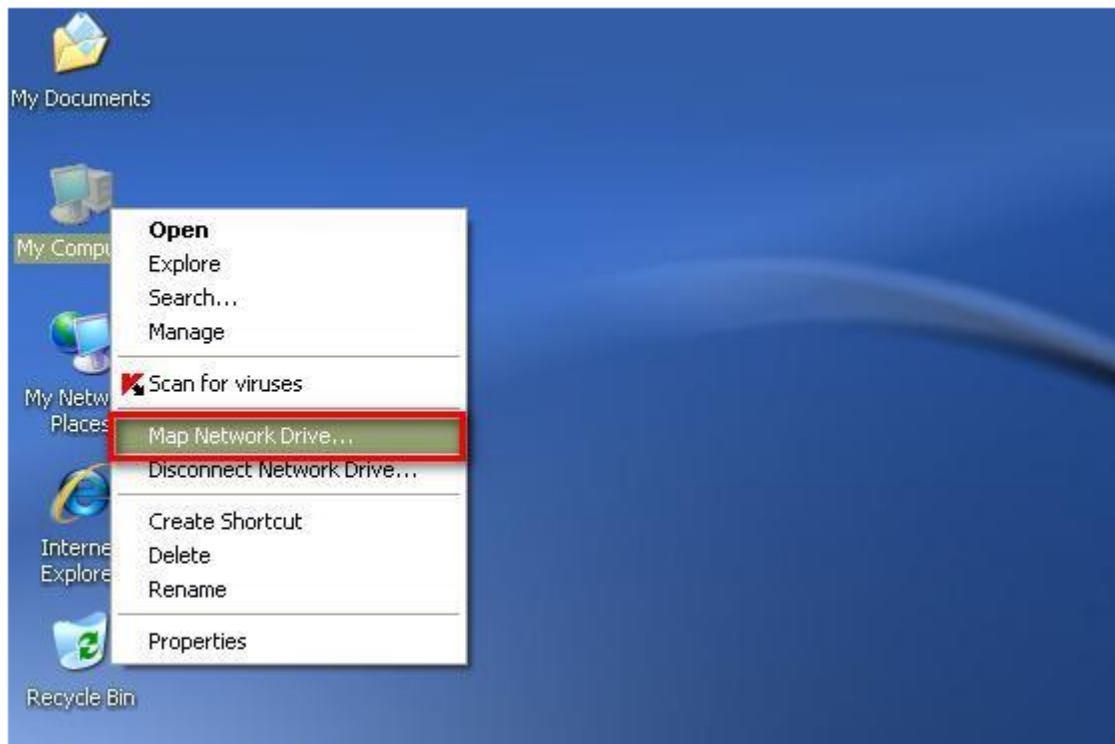
Total: 7 | Display 10 entries per page.

1 / 1

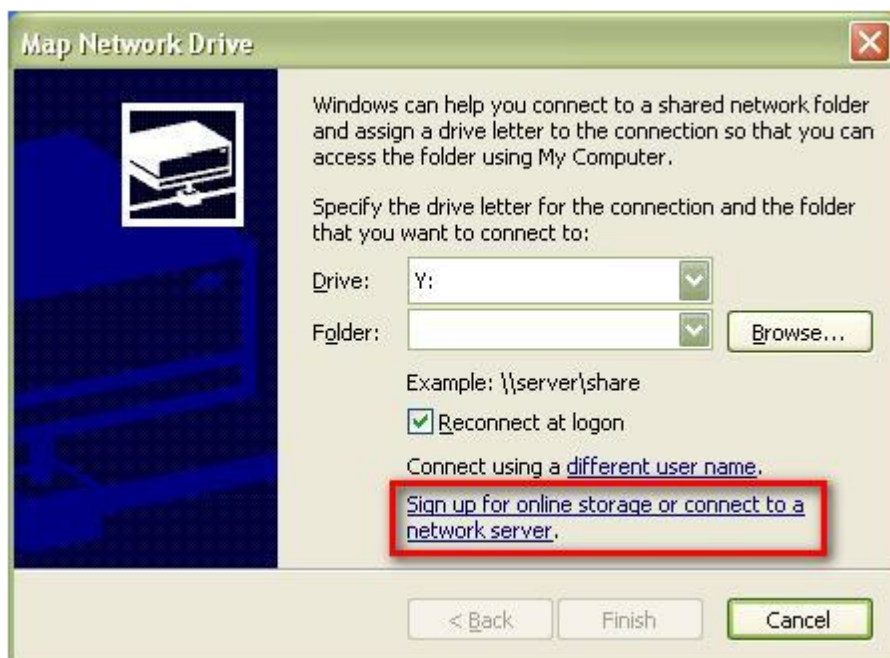
NAS WebDAV

Windows XP:

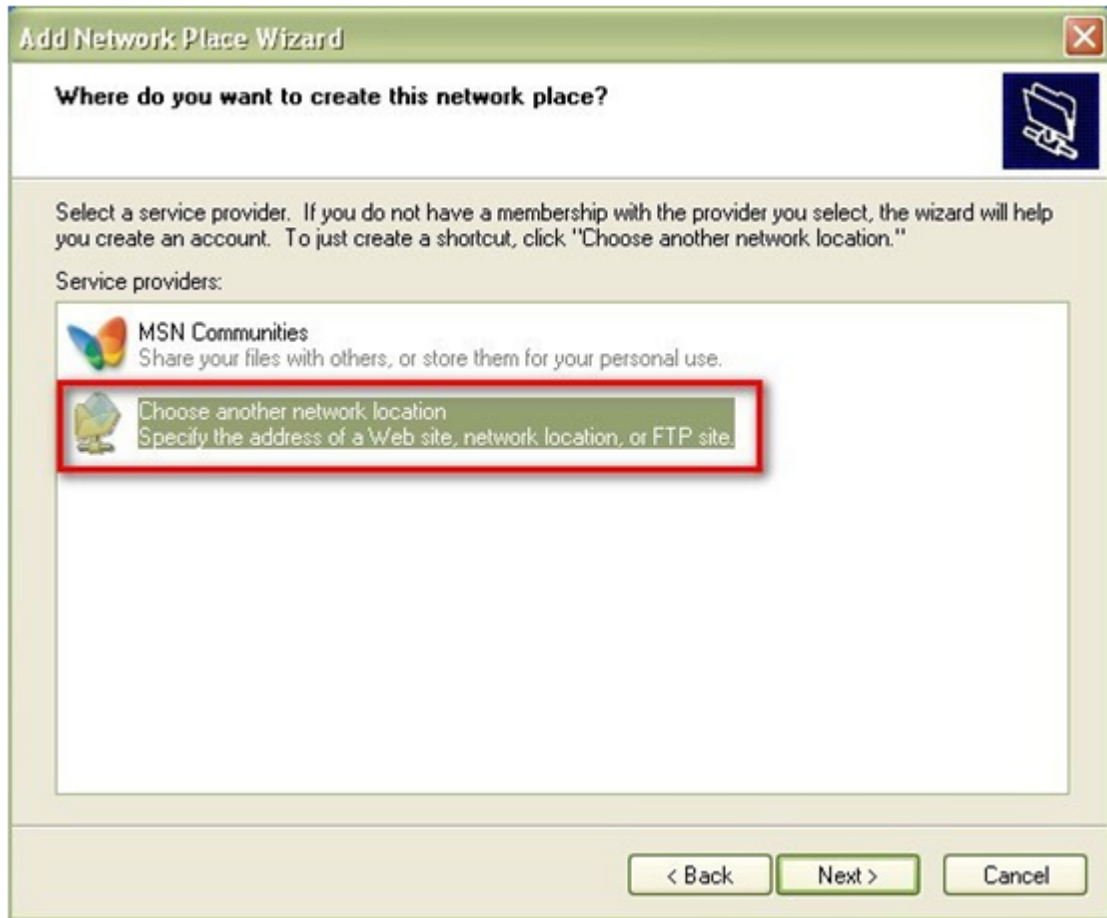
1. “ ” “ ”



2. “ ”

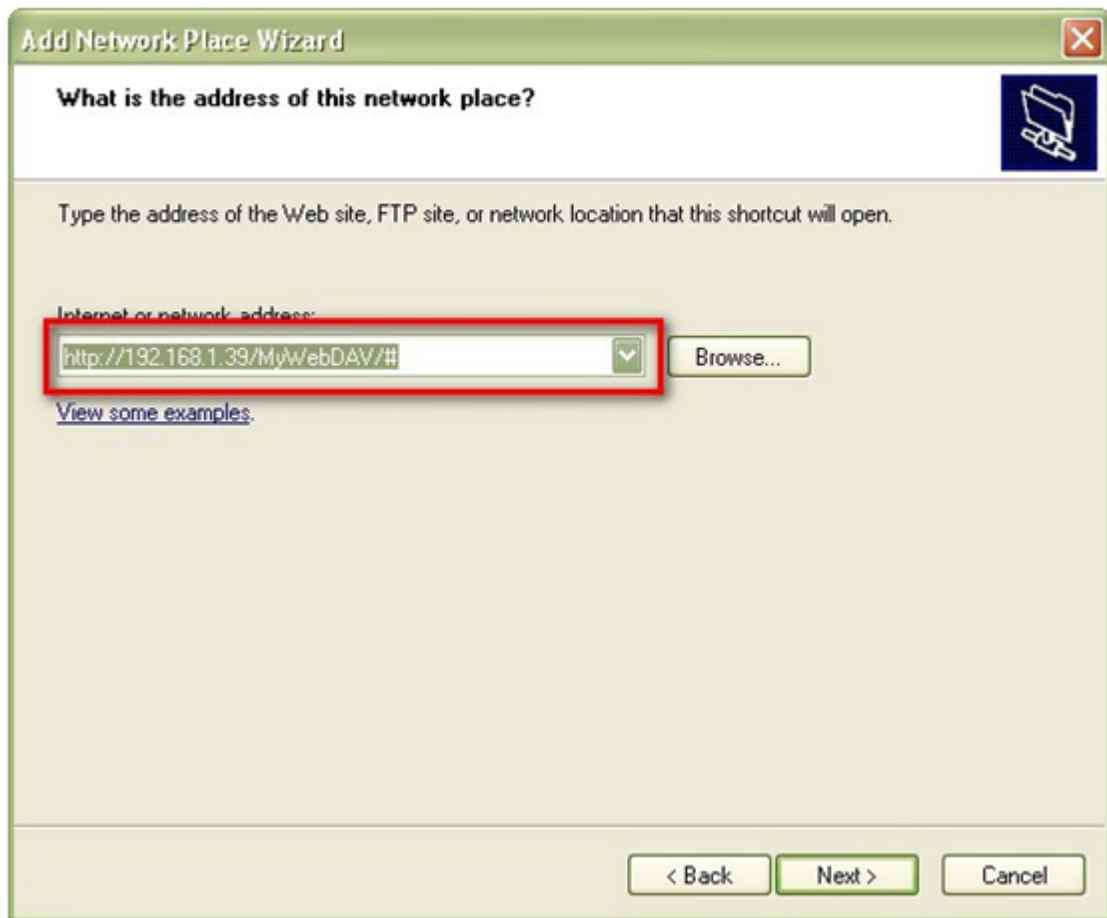


3. “ ” .



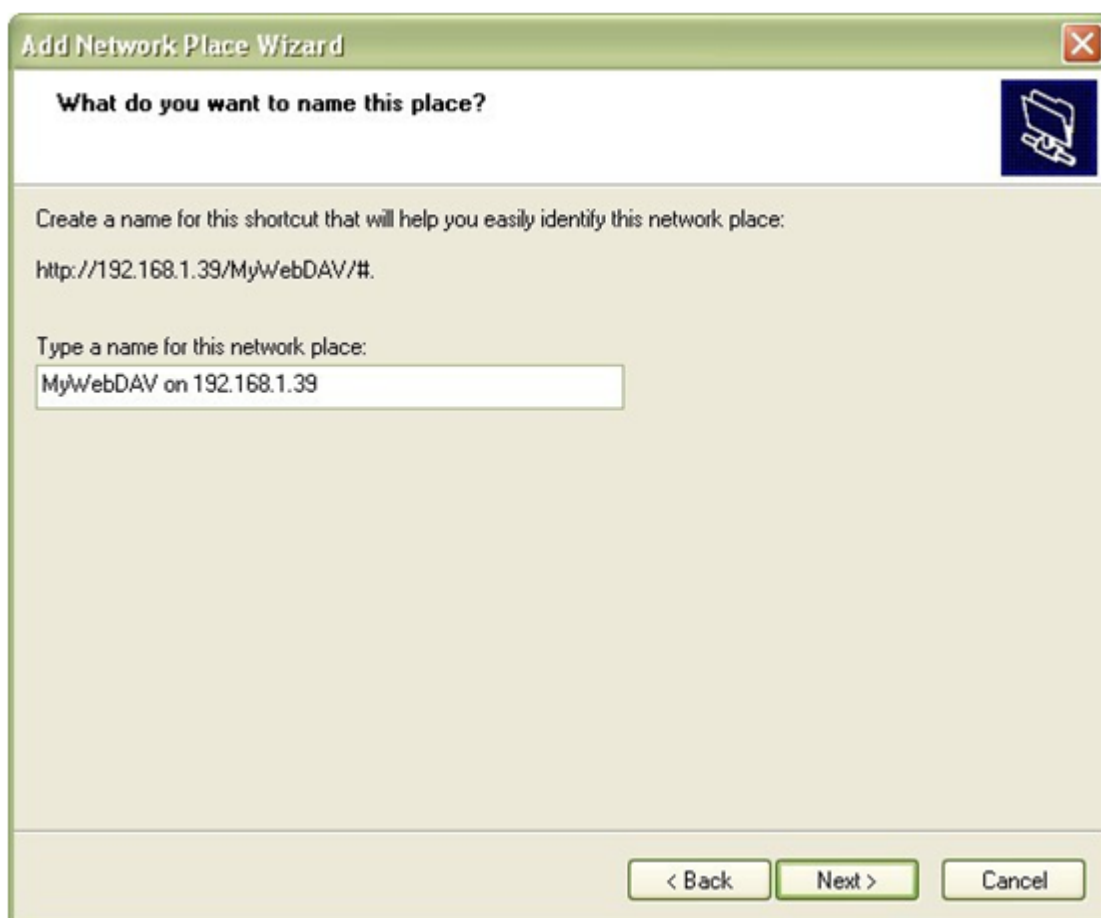
4. NAS URL . URL # " . " "

: http://NAS_IP_or_ _ / _ _ /#



5. WebDAV

6.

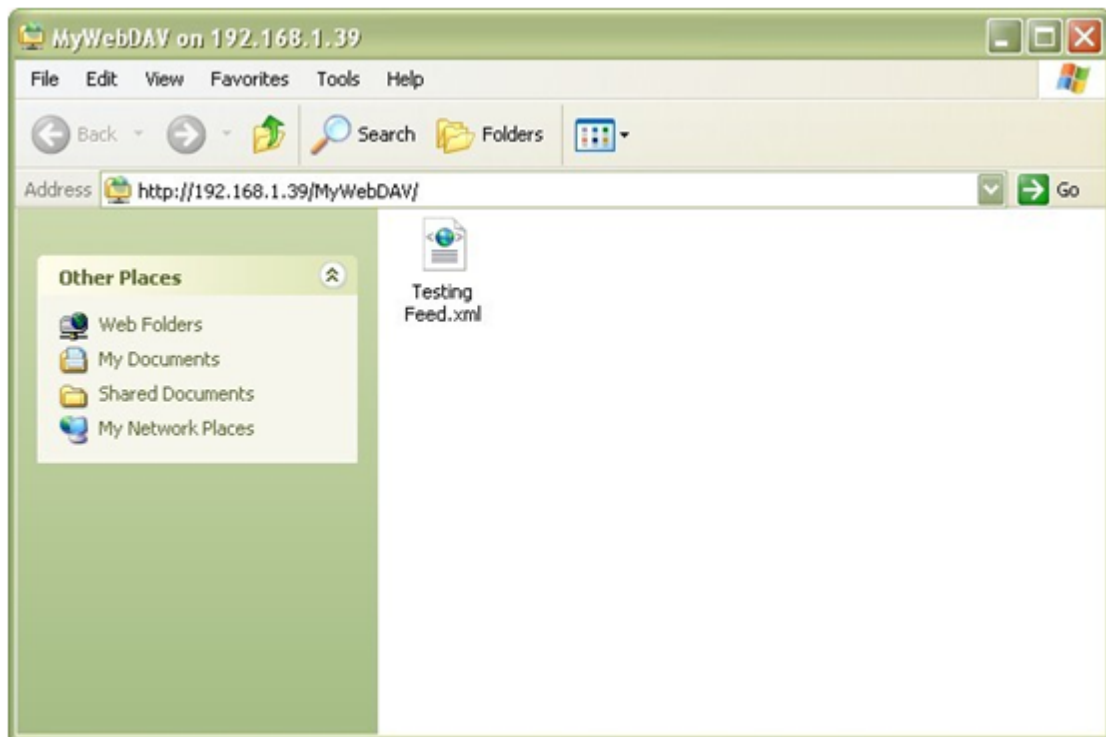


7.

가



8. WebDAV “ ” 가 가



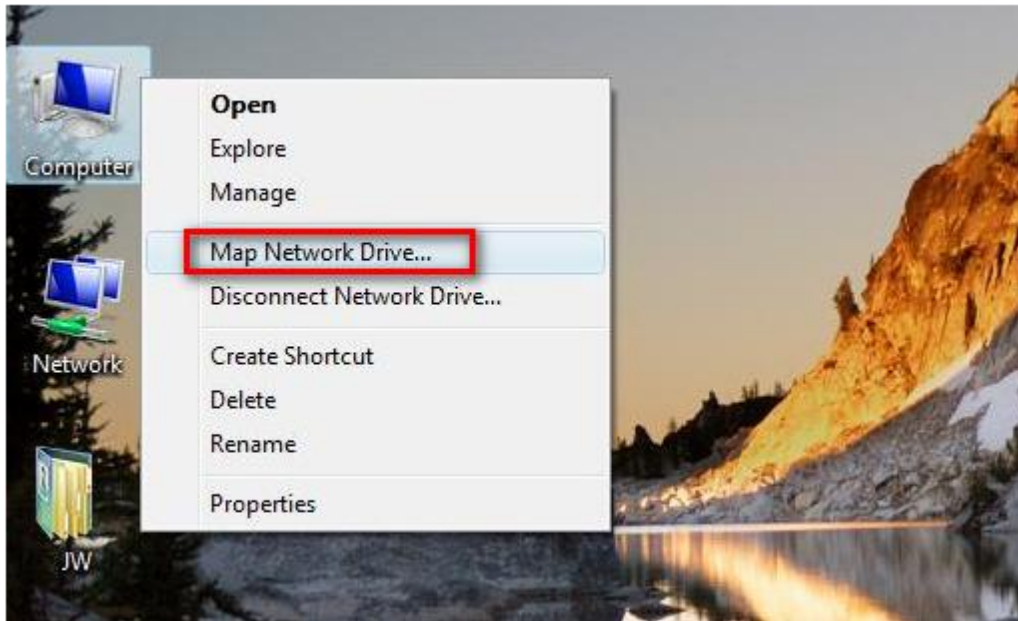
Windows Vista

Windows Vista , “ (KB907306) ” 가

32 Windows OS

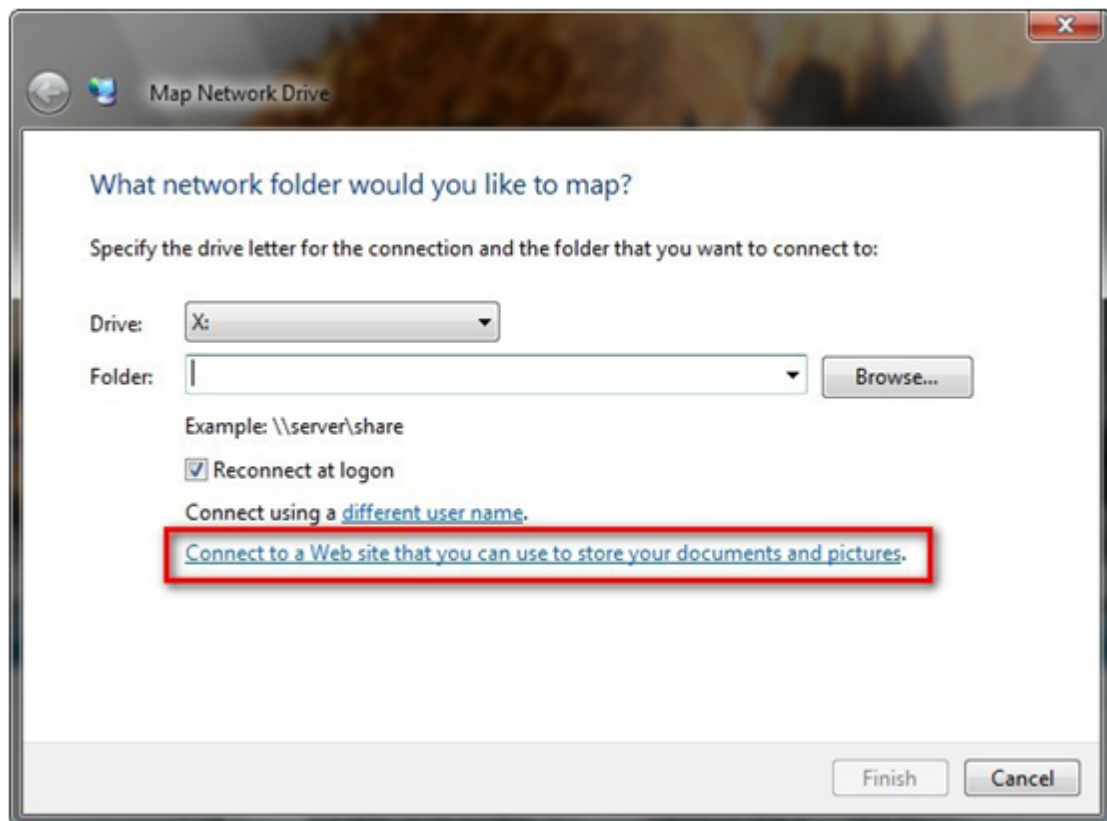
<http://www.microsoft.com/downloads/details.aspx?FamilyId=17c36612-632e-4c04-9382-987622ed1d64&displaylang=en>

1. “ ” “ ...”



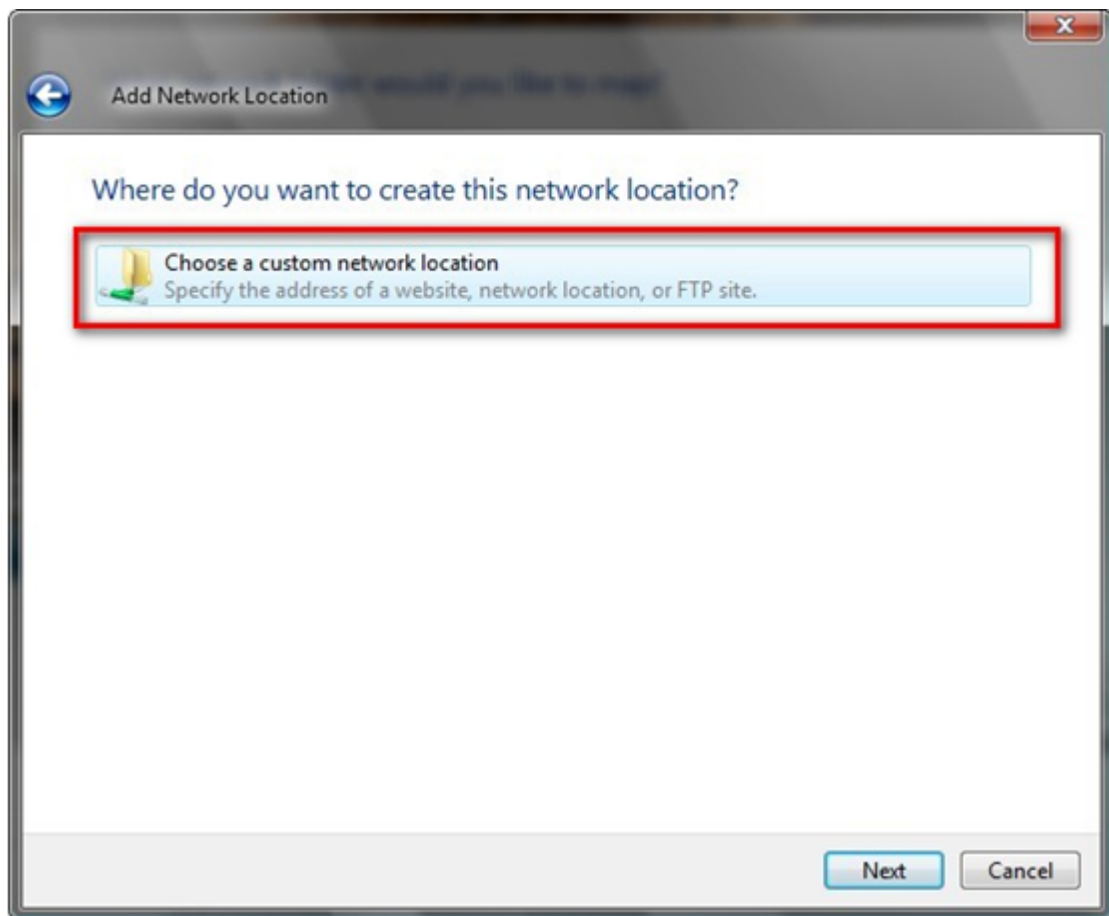
2. “

”

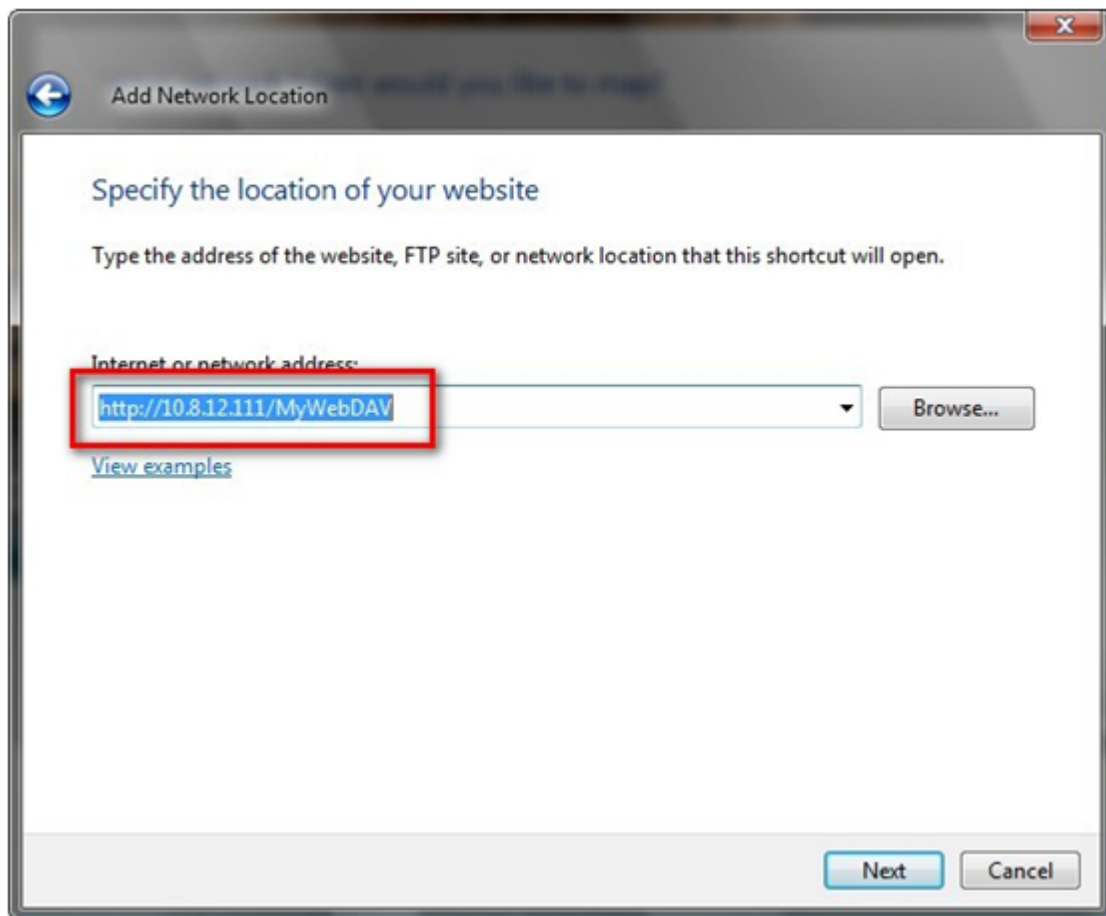


3. “

”

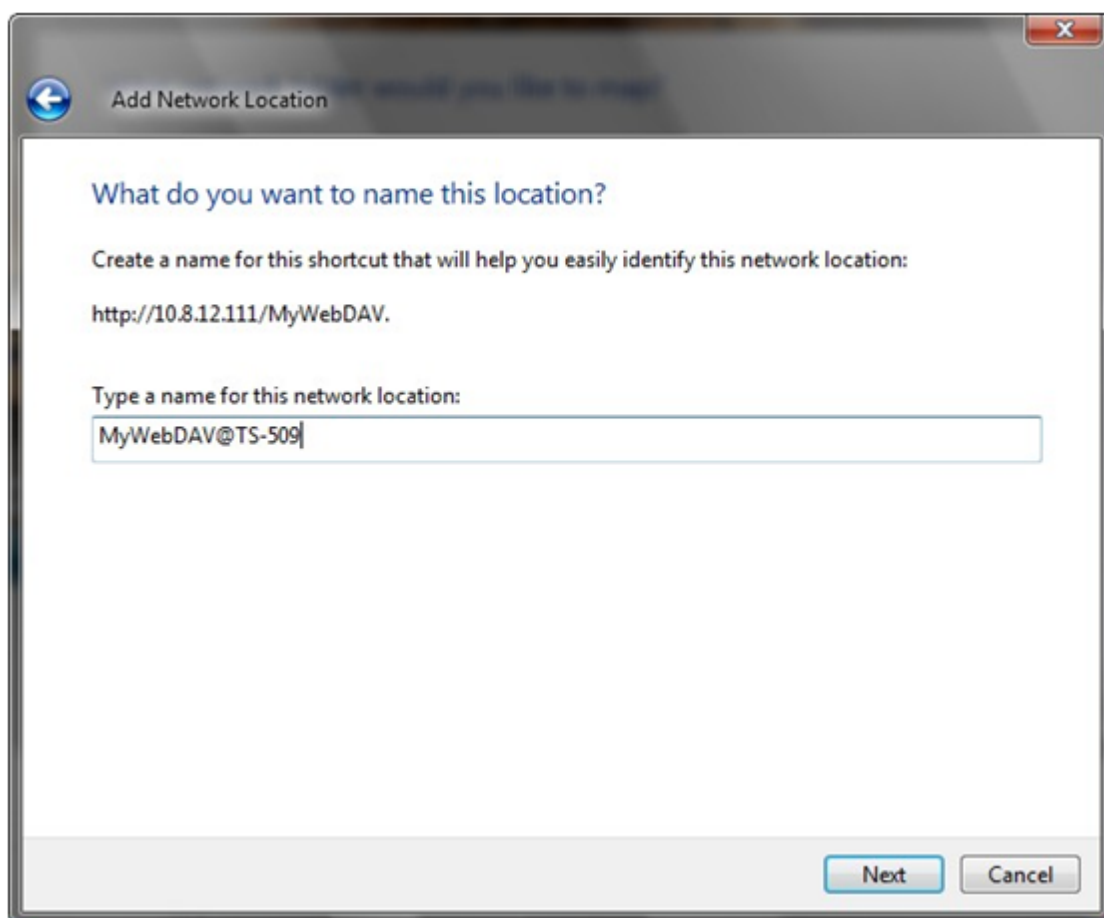


4. NAS URL
: http://NAS_IP_or_ / _ _

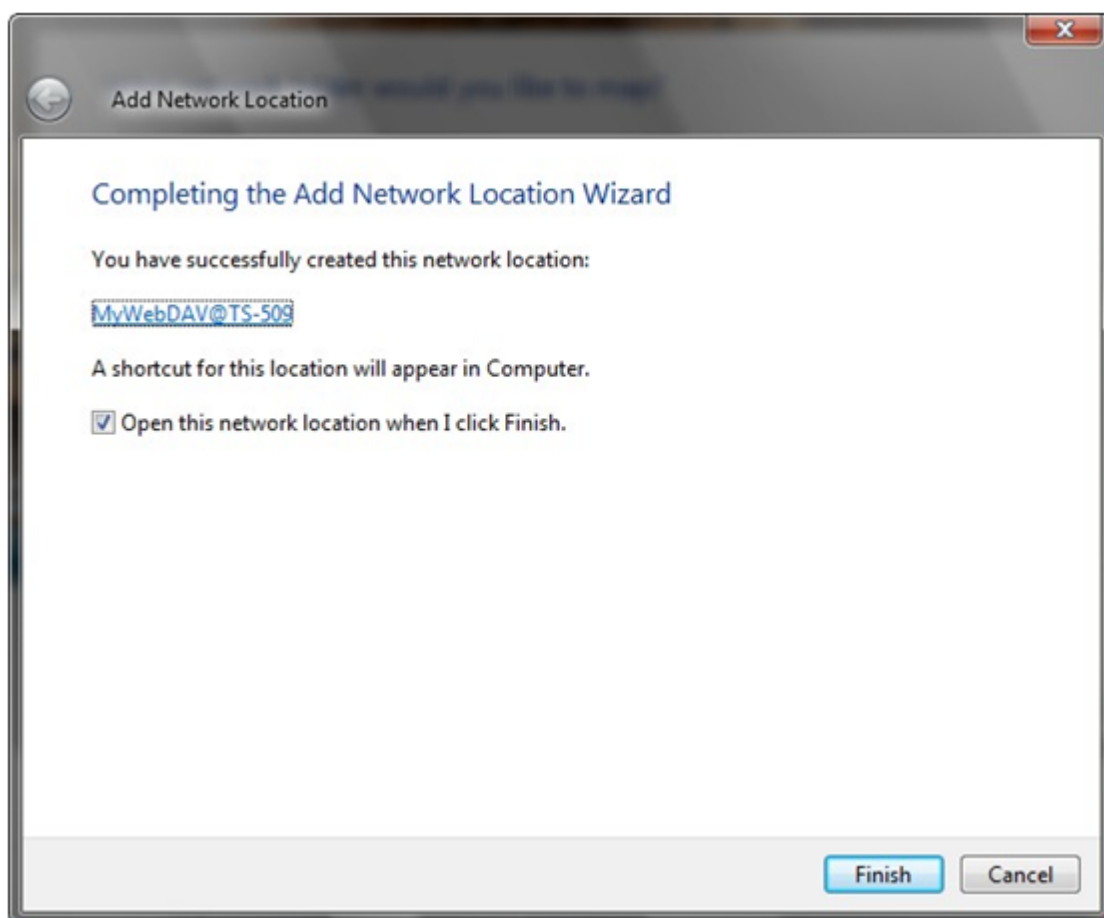


5. WebDAV

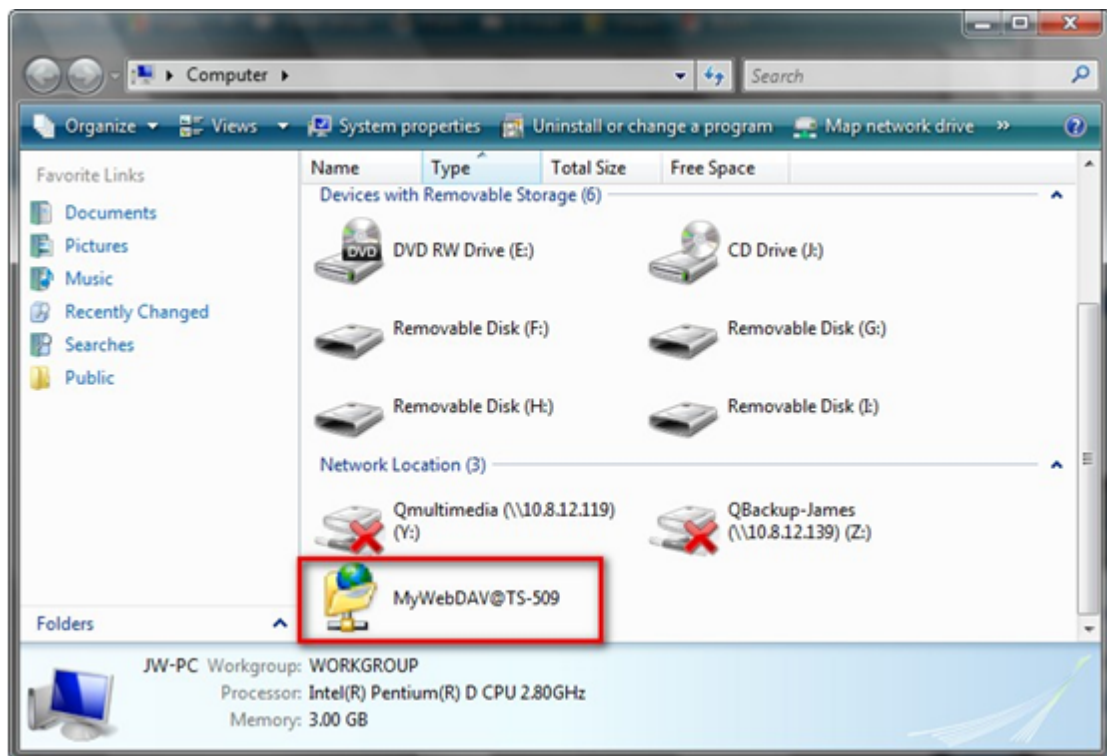
6.



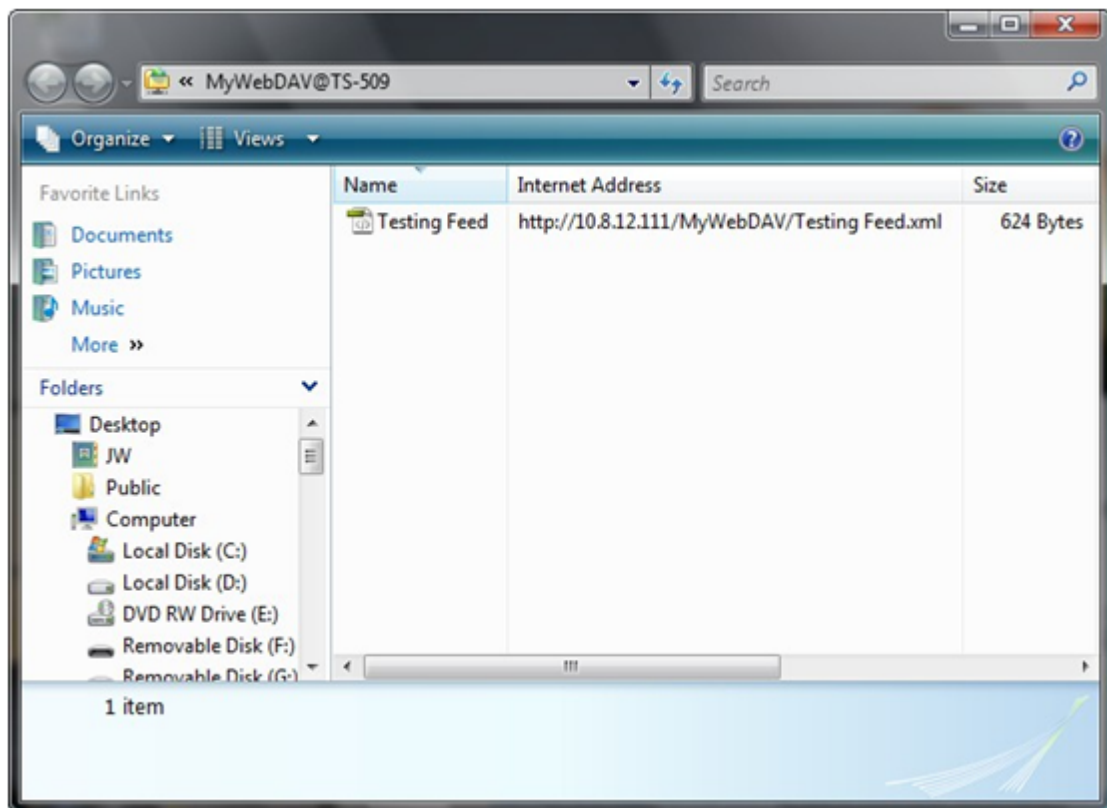
7. 가



8. “ ” “ ”



9. HTTP/WebDAV



Mac OS X

Mac OS X WebDAV NAS

: Mac OS X Snow Leopard (10.6.1)

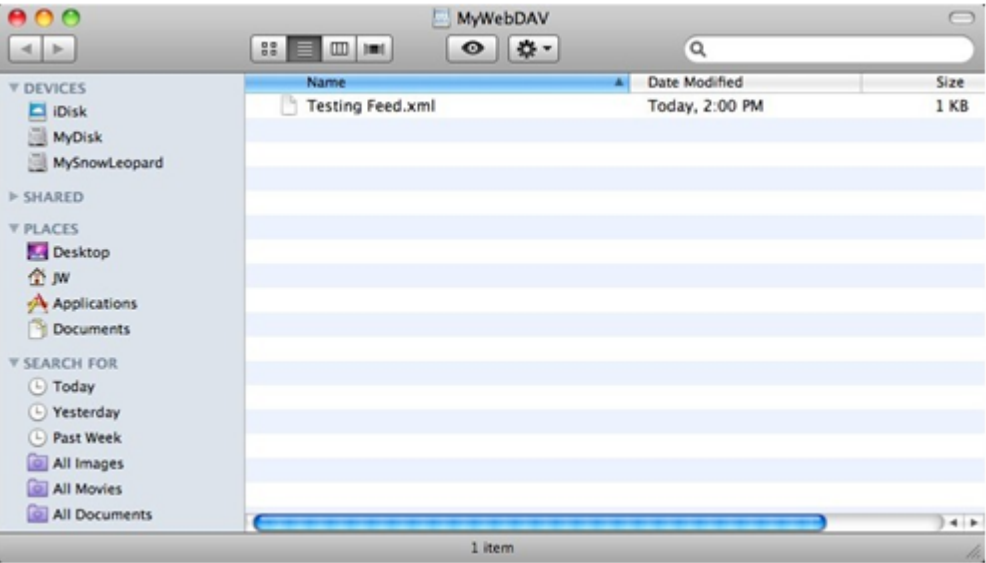
1. “ ”> “ ” URL
: http://NAS_IP_or_ _ / _ _



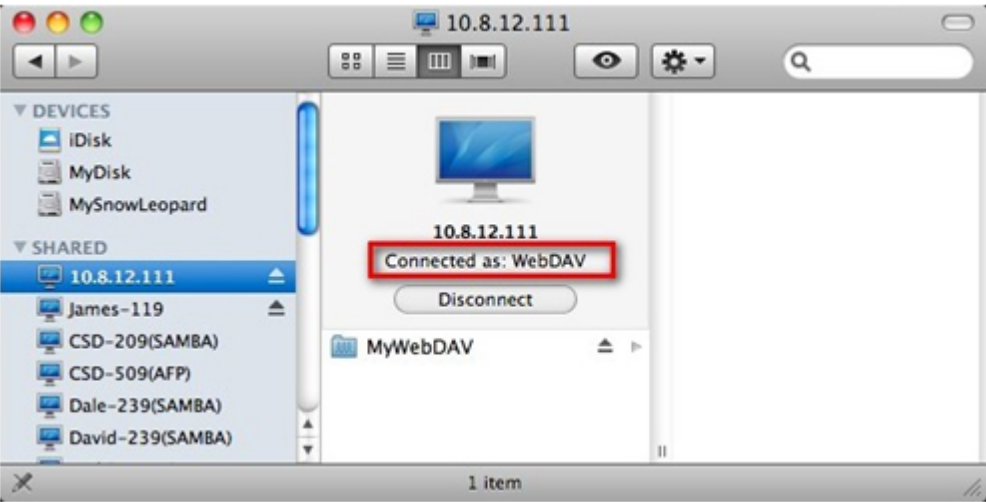
2. WebDAV



3. HTTP/WebDAV



“ ” 가



Mac OS X 10.6 10.4

Ubuntu

Ubuntu WebDAV NAS .

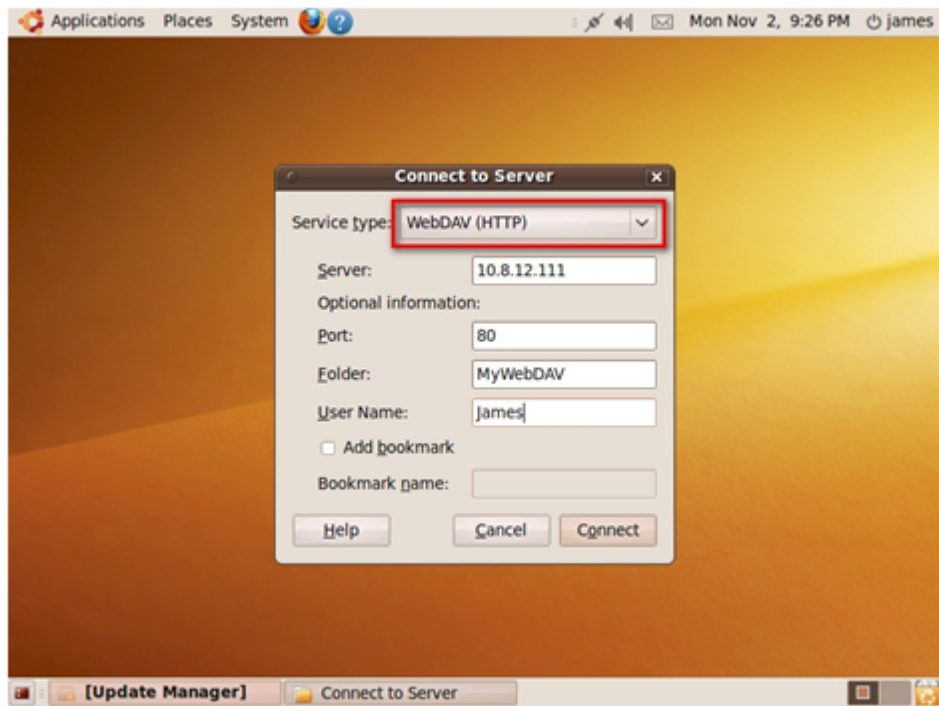
: Ubuntu 9.10 Desktop

1. “ ”> “ ...” .

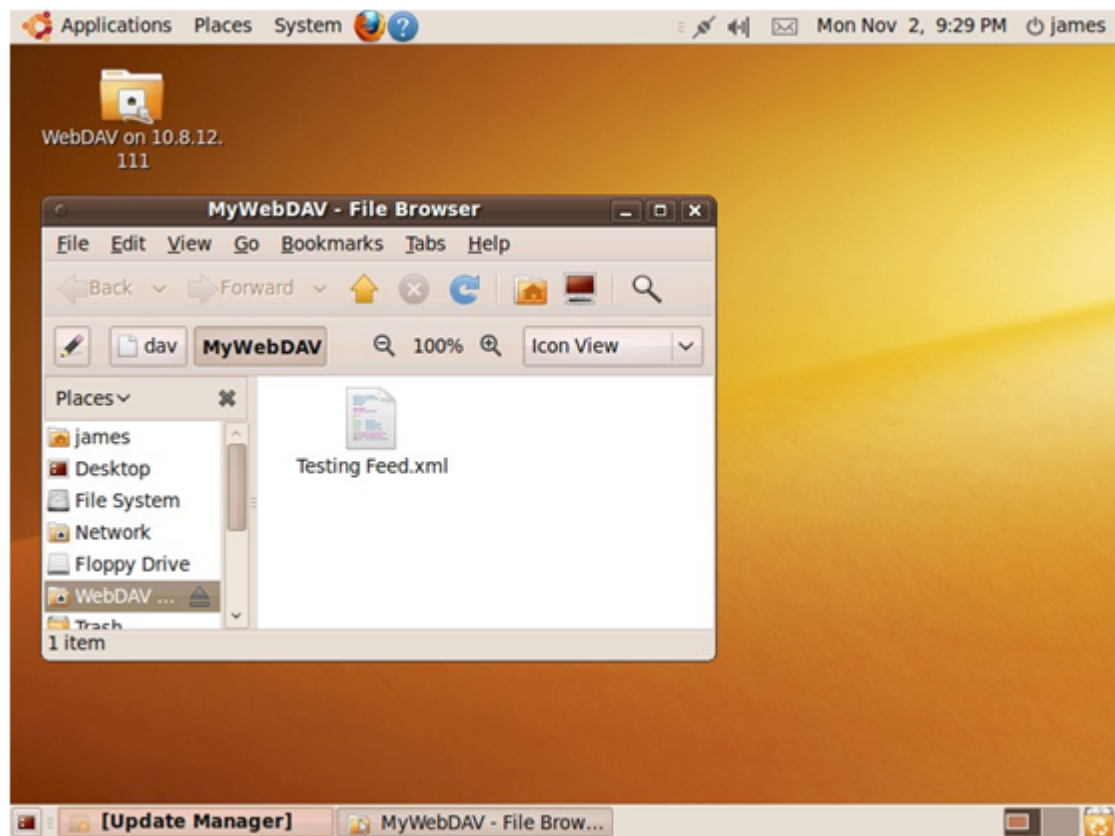


2. NAS

“WebDAV (HTTP) ” “Secure WebDAV (HTTPS) ”
WebDAV



3. WebDAV , 가



MySQL

phpMyAdmin 가 MySQL
phpMyAdmin

: MySQL	"root"	"admin"	phpMyAdmin
---------	--------	---------	------------

SQLite

SQLiteManager SQLite
sqlitemanager.org/

[http://www.](http://www.sqlitemanager.org/)

SQLiteManager-*.tar.gz?

SQLiteManager

1. SQLiteManager-*.tar.gz
2. SQLiteMnager-* \\NAS\IP\Qweb\ \\NAS\IP\Web\
3. http://NAS IP/SQLiteManager-*/

?: " " SQLiteManager

(32) NAS

가 NAS 가

1. 'Enable Virtual Host (가)' 'Apply()'
2. 'Create New Virtual Host (가)'

WEB SERVER **VIRTUAL HOST**

Virtual Host

After enabling this function, you can create multiple websites by uploading Web files to each folder.

☒ Enable Virtual Host

APPLY


Create New Virtual Host

<input type="checkbox"/>	Host Name	Folder Name	Protocol	Port	Action
	Delete				

3. * (Web Qweb)
4. (HTTP HTTPS) . HTTPS 'Enable Secure Connection (SSL)((SSL))'
- 5.
6. 'Apply()'

* 'Access Right Management()' > 'Share Folders()' Web Qweb

Modify Virtual Host



Modify Virtual Host

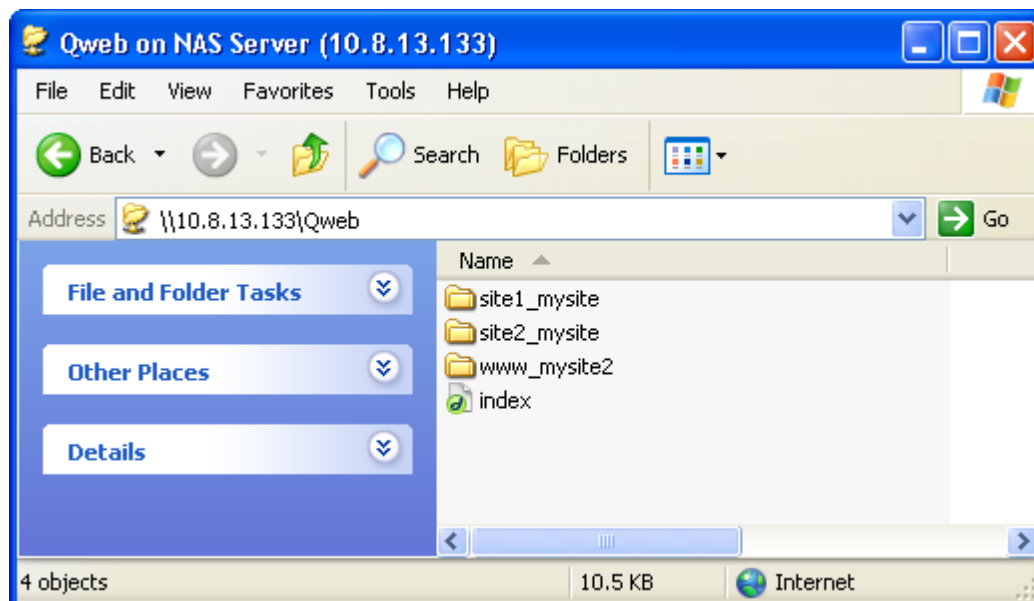
Host Name:
Folder Name: /Qweb/
Protocol: ☒ HTTP ☐ HTTPS
Port:

Step 1 of 1

APPLY

CANCEL

가 NAS
http://NAS_IP: _ https://NAS_IP: _



4.4.8

UPnP

가 가 UPnP

UPnP UPnP NAS

Network Service Discovery

UPNP DISCOVERY SERVICE **BONJOUR**

UPnP Discovery Service

After enabling this service, your NAS can be discovered by any operating systems that support UPnP.

☒ Enable UPnP Service

APPLY

Bonjour

Bonjour , Mac IP DNS
NAS (FTP)

: (FTP) Bonjour NAS
가 Bonjour

UPNP DISCOVERY SERVICE

BONJOUR

Bonjour

Before broadcasting the following services through Bonjour, please DO NOT forget to enable these services first.

☒ Web Administration

Service Name: NAS8CBC6C

☒ SAMBA (Server Message Block over TCP/IP)

Service Name: NAS8CBC6C(SAMBA)

☐ AFP (Apple File Protocol over TCP/IP)

Service Name: NAS8CBC6C(AFP)

☐ SSH

Service Name: NAS8CBC6C(SSH)

☐ FTP (File Transfer Protocol)

Service Name: NAS8CBC6C(FTP)

☐ HTTPS (Secure web server)

Service Name: NAS8CBC6C(HTTPS)

☐ UPNP (DLNA media server)

Service Name: NAS8CBC6C(UPNP)

☐ QMobile for iPhone/iPod Touch.

Service Name: NAS8CBC6C(QMobile)

APPLY

4.5 (Web File Manager)

OS	NAS	NAS 가
IP	,	NAS
“ ” > “ ”		

Web File Manager

Web File Manager

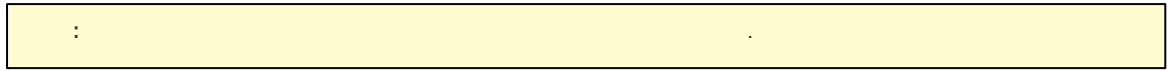
- ☒ Enable Web File Manager
 - ☒ Show service link on the login page

APPLY

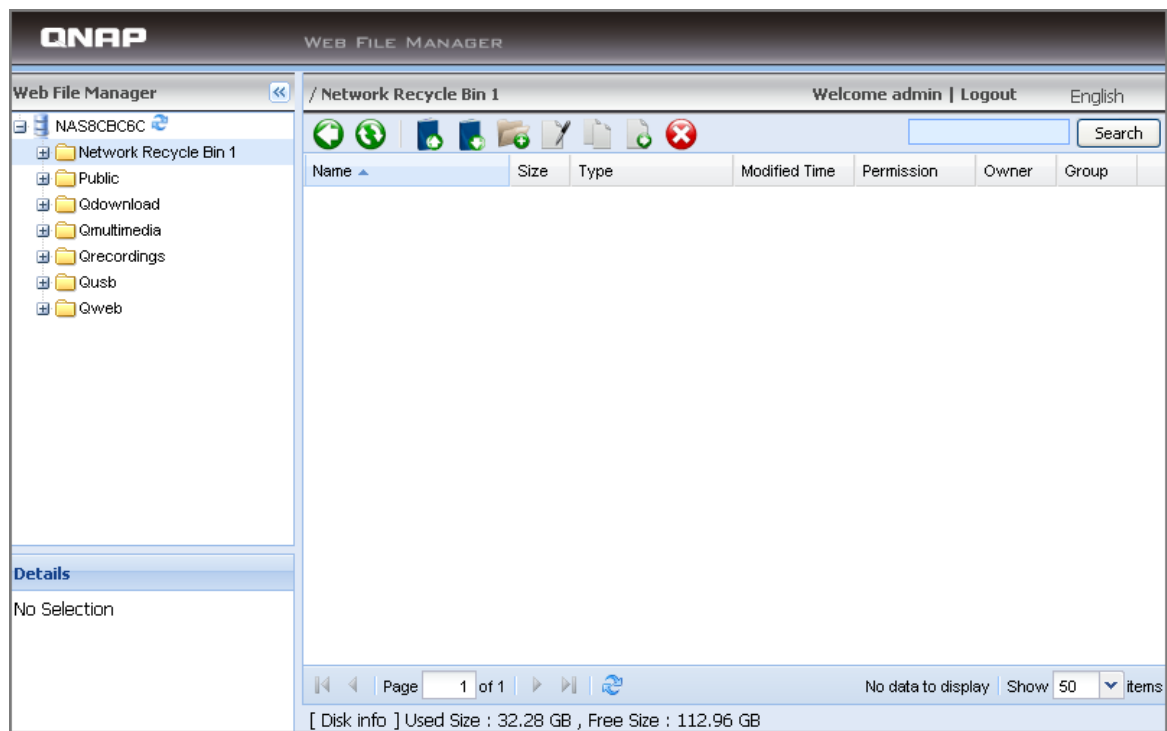
NAS

"Web File Manager "

. NAS



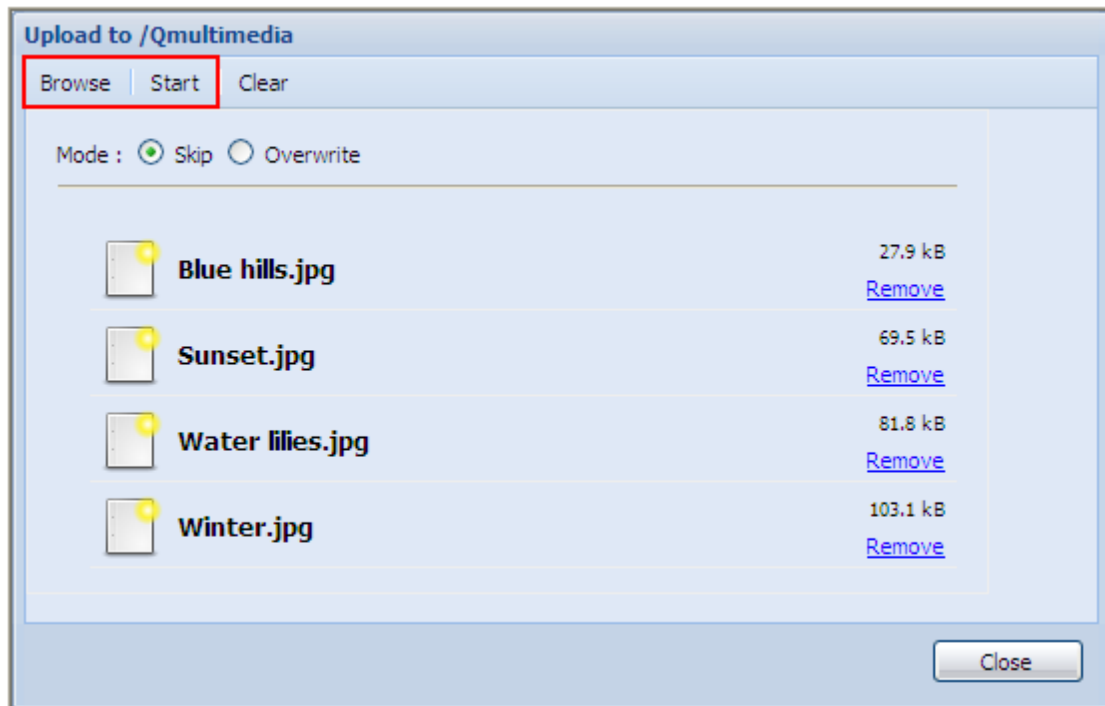
NAS



Adobe Flash



- 1.
- 2.
- 3.



- 4.

- 1.

- 2.



- 1.





- 2.

- 3.







()

1.  ()
2.  ()
3.  ()

1.  ()
2.  ()
3.  ()
4.  ()

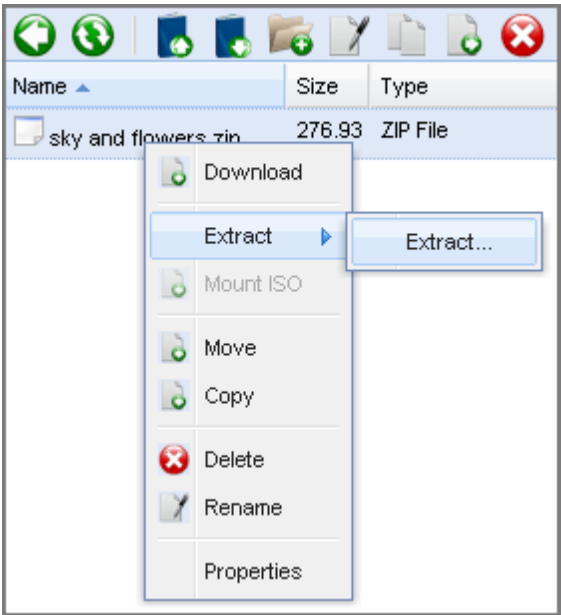
“ ”

1.  ()
2.  ()
3.  ()
4.  ()

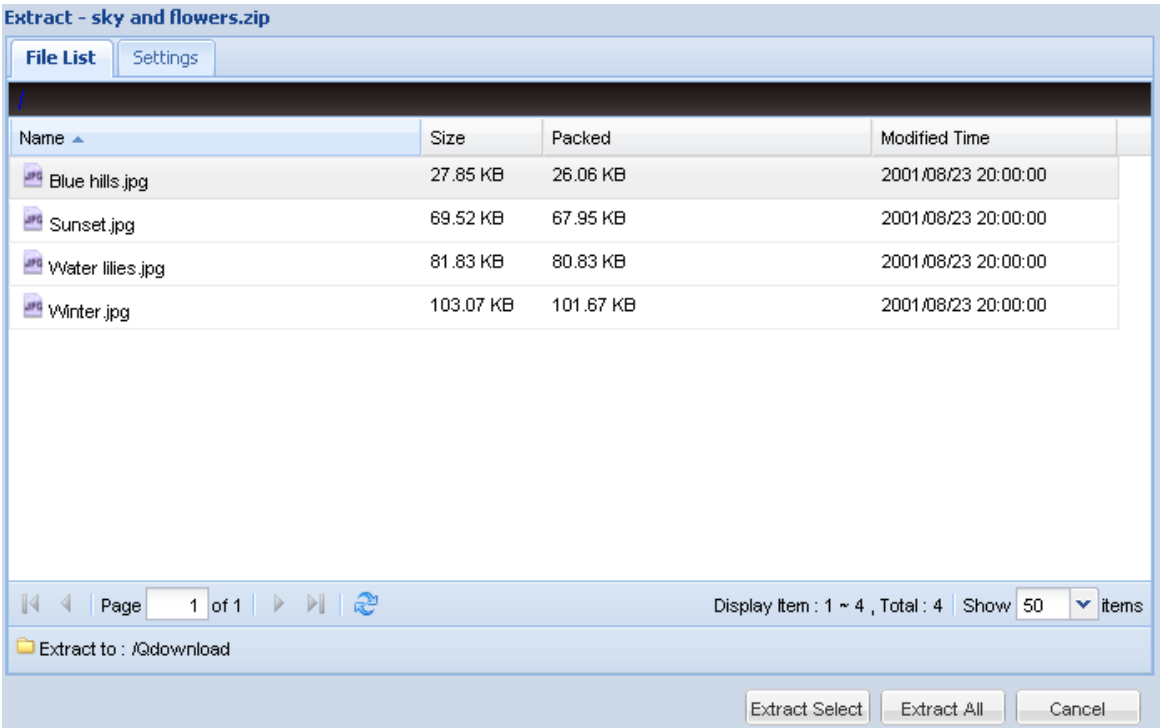
“ ”

1.  ()
2.  ()
3.  ()

1. NAS



2.



/

, NAS

AVI, MP3

QNAP WEB FILE MANAGER

Web File Manager << / Qmultimedia / video Welcome admin | Logout English

22 Search

Name	Size	Type	Modified Time	Permission	Owner	Group
22		Folder	2010/05/17 19:04:46	777 (rwxrwxrwx)	admin	administrators
2010-05-05 22-00-07~22-01-09.avi	1.96 MB	AVI File	2010/05/17 15:27:12	644 (rw-r--r--)	httpdusr	everyone
2010-05-05 22-00-07~22-01-09.AVI	1.96 MB	AVI File	2010/05/05 22:01:09	666 (rw-rw-rw-)	admin	administrators
2010-05-05 22-01-09~22-02-10.avi	2 MB	AVI File	2010/05/05 22:02:11	666 (rw-rw-rw-)	admin	administrators
2010-05-05 22-02-10~22-03-11.avi	2 MB	AVI File	2010/05/05 22:03:12	666 (rw-rw-rw-)	admin	administrators
2010-05-05 22-03-11~22-04-00.avi	1.56 MB	AVI File	2010/05/05 22:04:01	666 (rw-rw-rw-)	admin	administrators
2010-05-05 22-04-00~22-05-02.avi	1.92 MB	AVI File	2010/05/05 22:05:02	666 (rw-rw-rw-)	admin	administrators
2010-05-05 22-05-02~22-06-03.avi	1.94 MB	AVI File	2010/05/05 22:06:03	666 (rw-rw-rw-)	admin	administrators
2010-05-05 22-06-03~22-07-05.avi	1.9 MB	AVI File	2010/05/05 22:07:05	666 (rw-rw-rw-)	admin	administrators
2010-05-05 22-07-05~22-08-06.avi	1.93 MB	AVI File	2010/05/05 22:08:07	666 (rw-rw-rw-)	admin	administrators
2010-05-05 22-08-06~22-09-07.avi	1.89 MB	AVI File	2010/05/05 22:09:08	666 (rw-rw-rw-)	admin	administrators
2010-05-05 22-09-07~22-10-08.avi	1.86 MB	AVI File	2010/05/05 22:10:09	666 (rw-rw-rw-)	admin	administrators
2010-05-05 22-10-08~22-11-11.avi	1.9 MB	AVI File	2010/05/05 22:11:11	666 (rw-rw-rw-)	admin	administrators
2010-05-05 22-11-11~22-12-00.avi	1.49 MB	AVI File	2010/05/05 22:12:00	666 (rw-rw-rw-)	admin	administrators
2010-05-05 22-12-00~22-13-01.avi	1.88 MB	AVI File	2010/05/05 22:13:02	666 (rw-rw-rw-)	admin	administrators

Page 1 of 2 Display Item: 1 - 50, Total: 62 Show 50 items

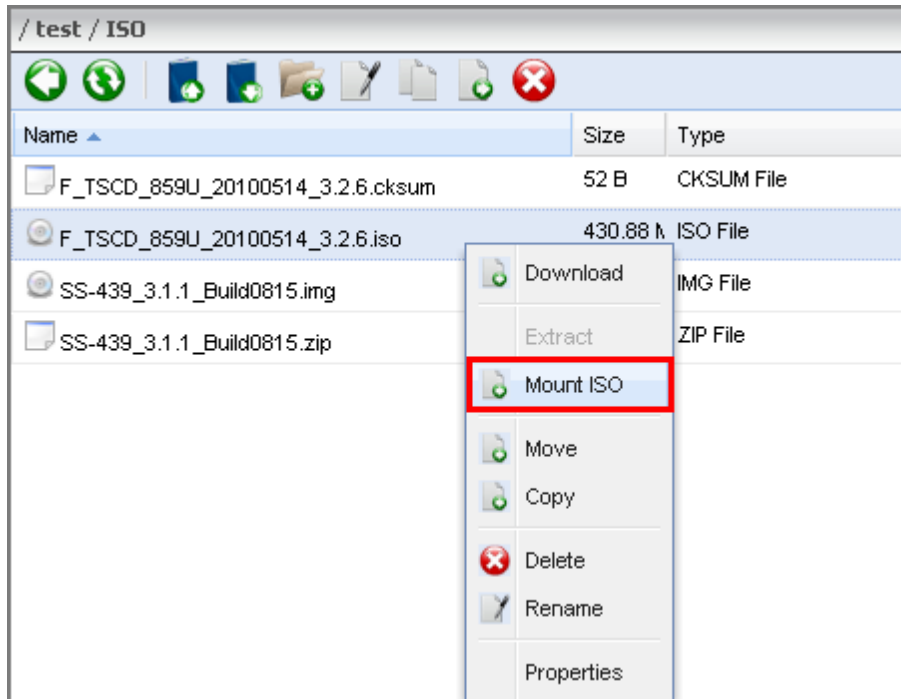
[Disk info] Used Size : 22.95 GB, Free Size : 122.28 GB

ISO

NAS ISO

NAS ISO

'Mount ISO(ISO)'



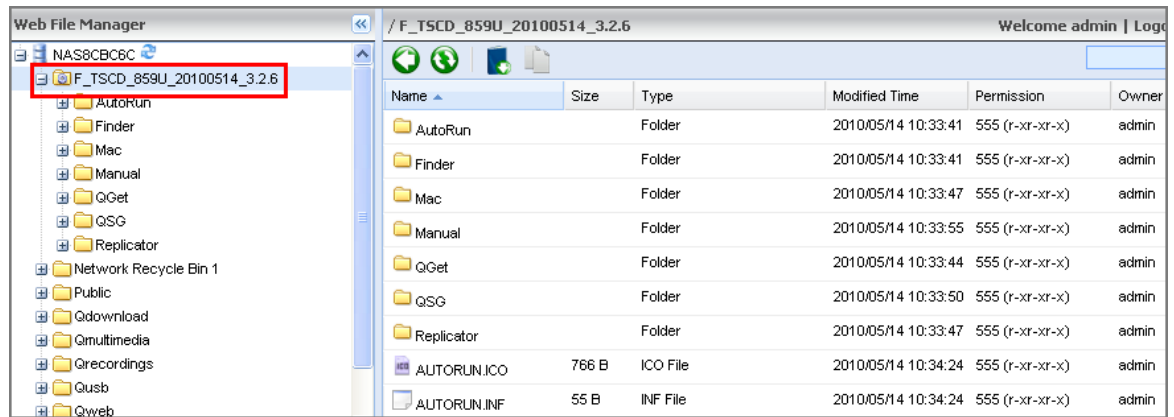
'OK()'



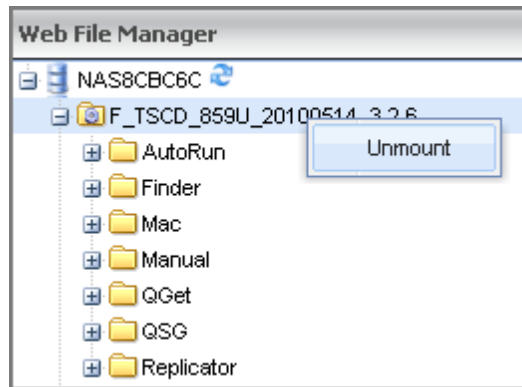
'OK()'



ISO 가 . ISO . NAS
'Access Right Management(' > 'ISO Share Folders
(ISO)'



'Unmount(')'
'OK()'



4.6 (Multimedia Station)

Multimedia Station

NAS

Facebook, Plurk, Twitter, Blogger

Multimedia Station

1. 'Network Services()' > 'Web Server()'
HTTPS Multimedia Station 'Enable Secure Connection (SSL)(SSL))'
2. Applications() > Multimedia Station '
http://NAS_IP:80/MSV2/ https://NAS_IP:8081/MSV2/ () Multimedia Station

Multimedia Station

Multimedia Station

☒ Enable Multimedia Station

☐ Show service link on the login page

After enabling this service, you may click one of the following links to enter Multimedia Station.

<http://10.8.12.46:80/MSV2/>

<https://10.8.12.46:8081/MSV2/>

☒ Rescan media library

Daily start time: 03 : 00

APPLY

Reset admin password

Password :

Verify Password :

OK

```

3.      Multimedia Station      'admin'      . 'Submit(    )'
      . Multimedia Station      , 'Keep existing user accounts(
      )'      . Multimedia Station      (admin    )
      NAS      admin
      .      1 - 16      .      A-Z, a-z, 0-9, -, !, @, #, $, %, _

```

Welcome

Welcome to Multimedia Station v2. Please enter the new password for the "admin" account and select the option "Keep existing user accounts" to reserve the user accounts and the access right settings of the previous version of Multimedia Station.

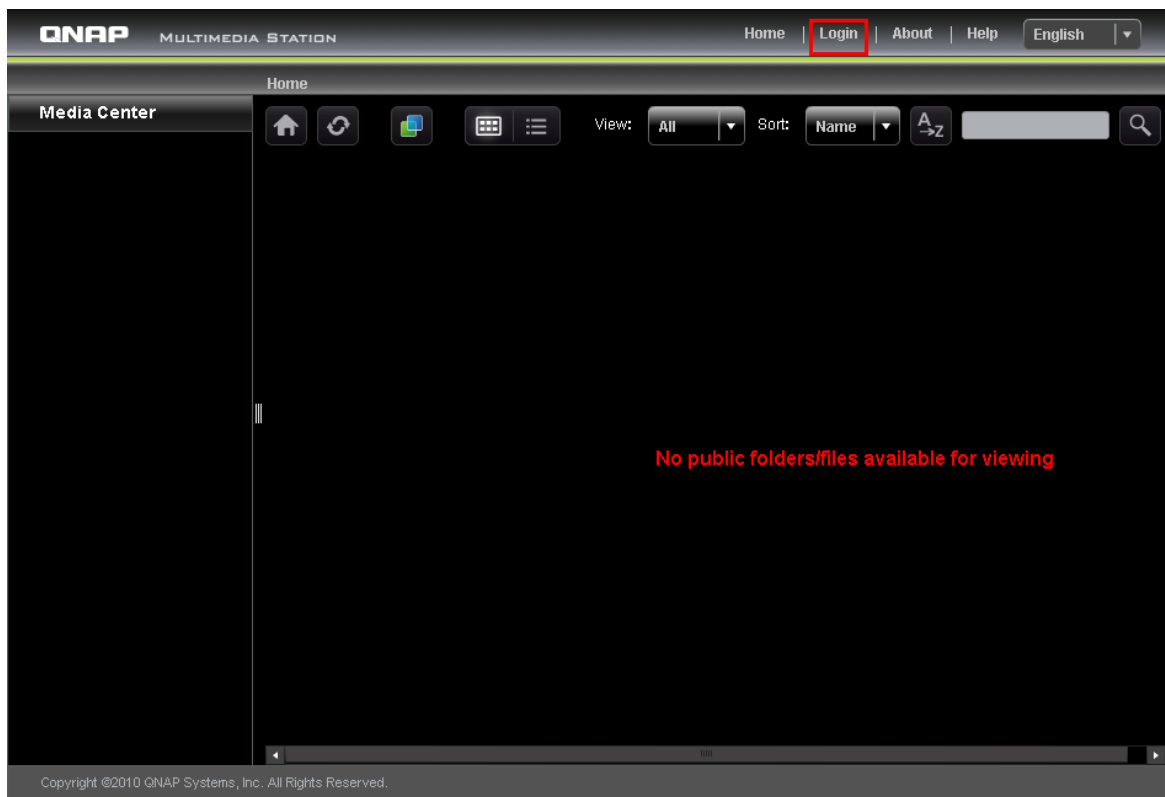
Note that the user accounts (including "admin") of Multimedia Station are different from the system user accounts. For security concern, it is suggested to set a different password for "admin".

New password :

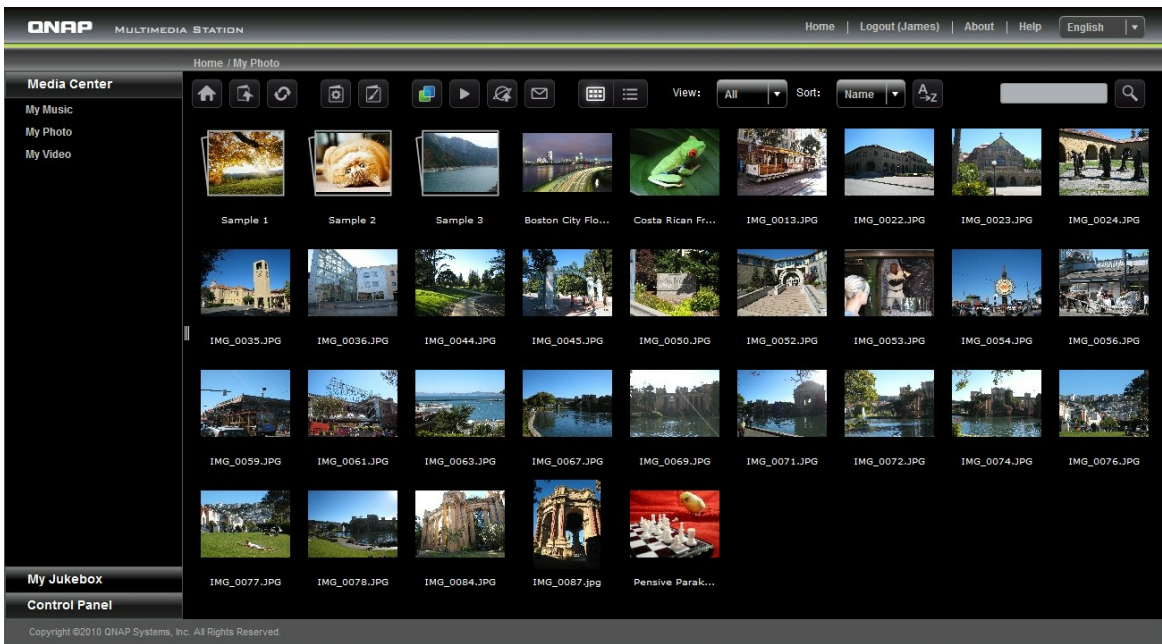
Verify password :

Submit

4. Multimedia Station 가 'Login()' 가
(admin) ,

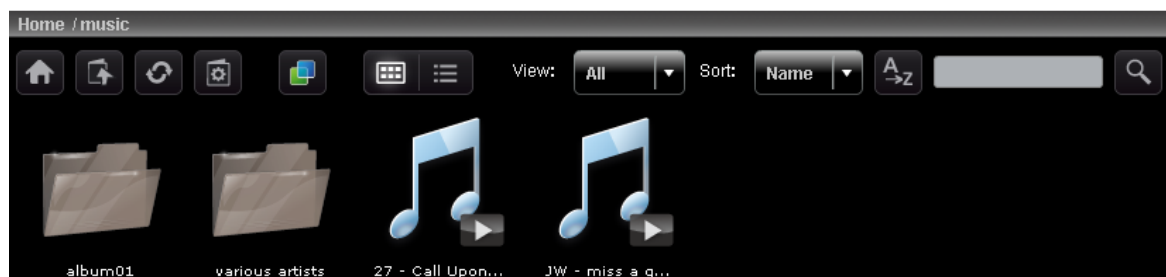















Multimedia Station Media Center(), My Jukebox(), Control Panel()



Multimedia Station (Qmultimedia/ Multimedia) Media
 Center() . NAS (, ,) LAN
 WAN

	MP3
	JPG/JPEG, GIF, PNG (GIF)
	: FLV, MPEG-4 (H.264 + AAC) : AVI, MP4, M4V, MPG, MPEG, RM, RMVB, WMV (FLV)



	Multimedia Station
	
	
	* : 1. 2. 가
	* / /
	Cooliris Cooliris 3 Cooliris
	
	* (5) : Twitter, Facebook, MySpace, Plurk, Windows Live, Blogger. (Control Panel() > Set Folder Public()) Multimedia Station . NAS DDNS
	* (5) NAS SMTP
	Multimedia Station
	: Open(), Rename(), Delete(), Download(), Full Image View().
	
	

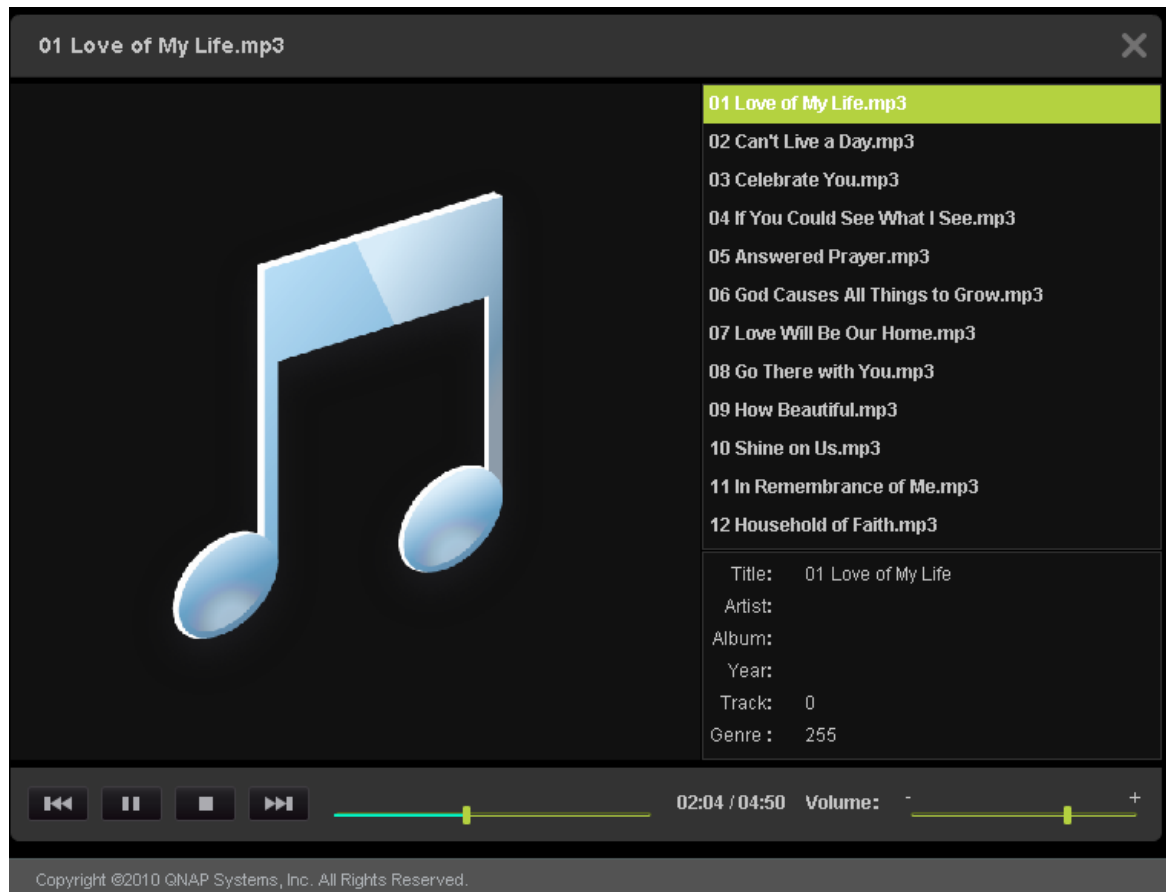
*

NAS

(MP3)

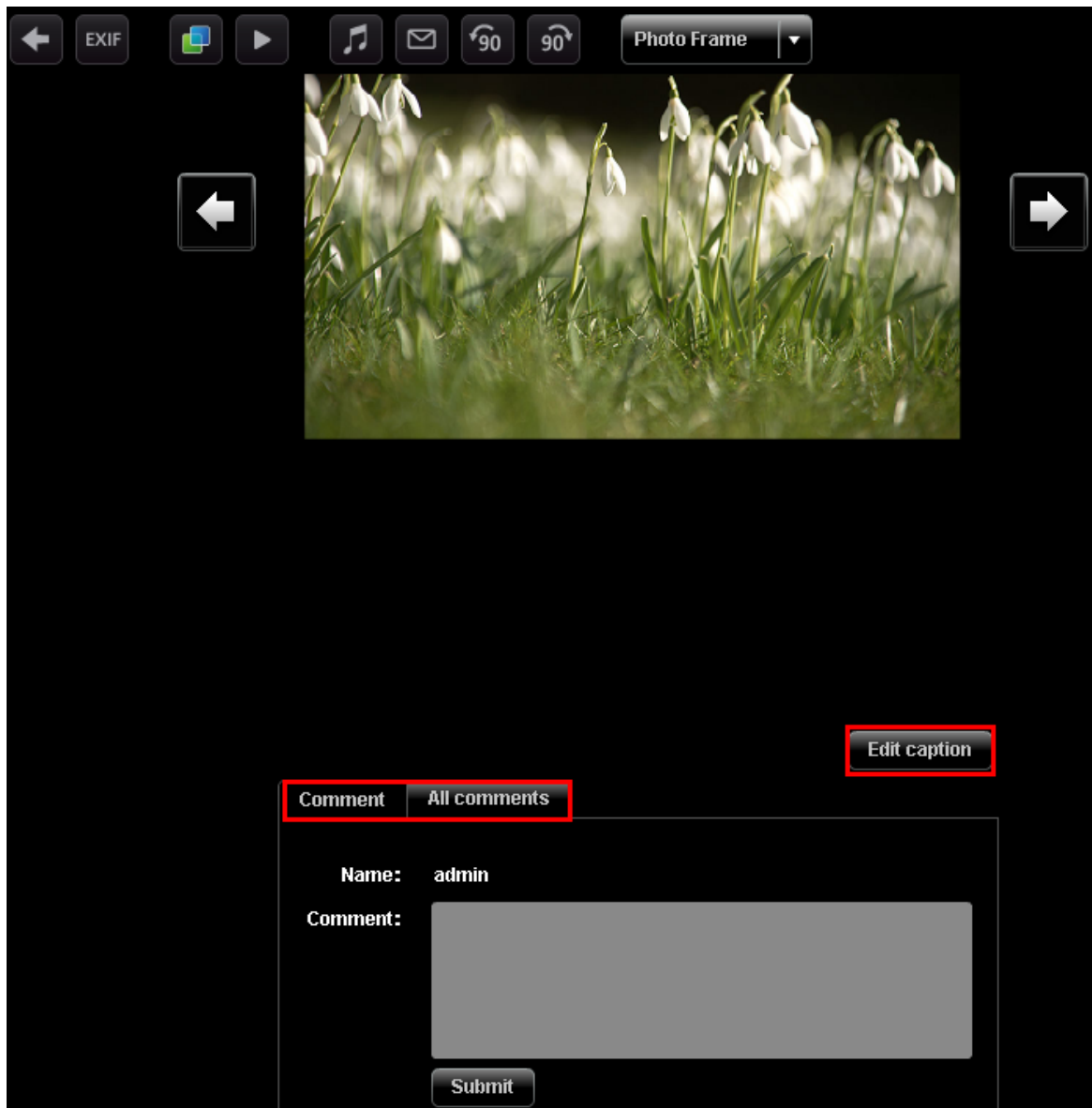
NAS가

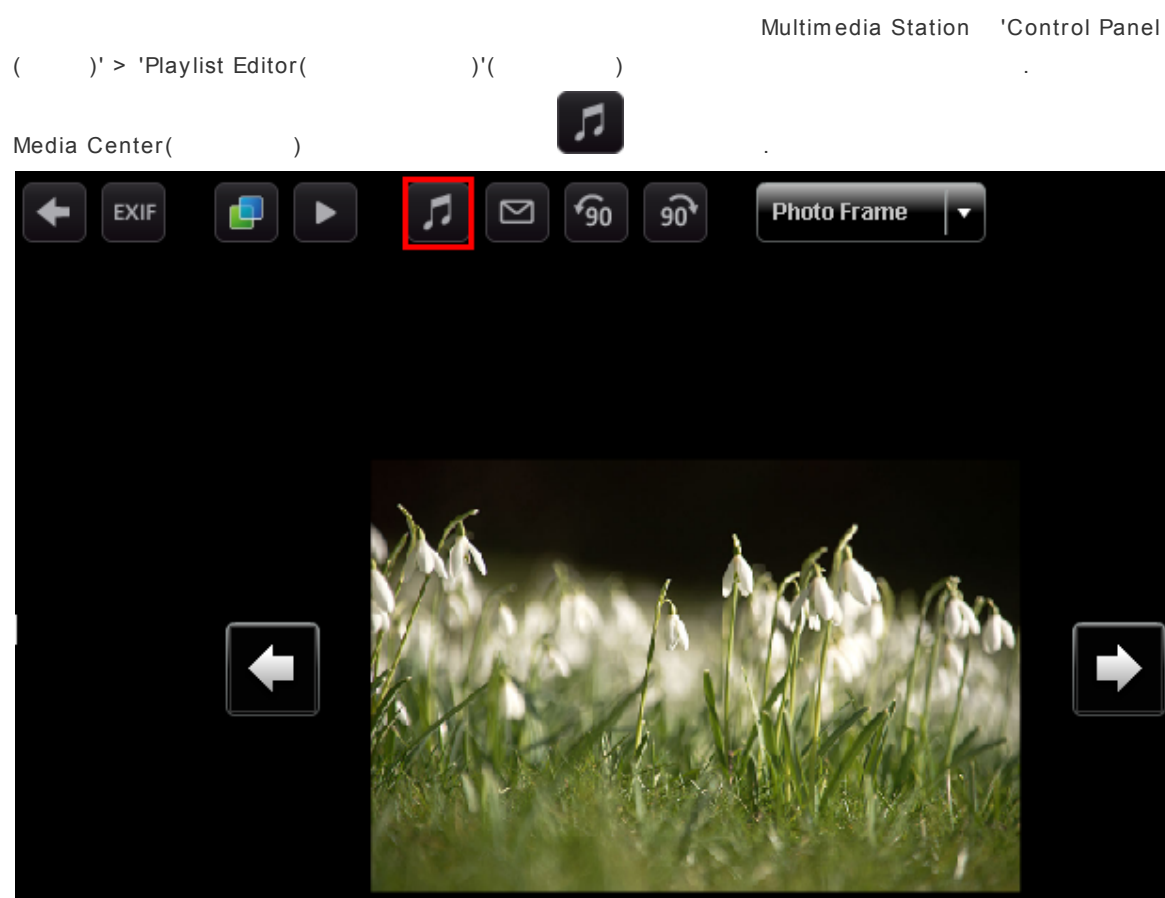
가 'X'



'EXIF'
가 , 'Edit caption(')' 512

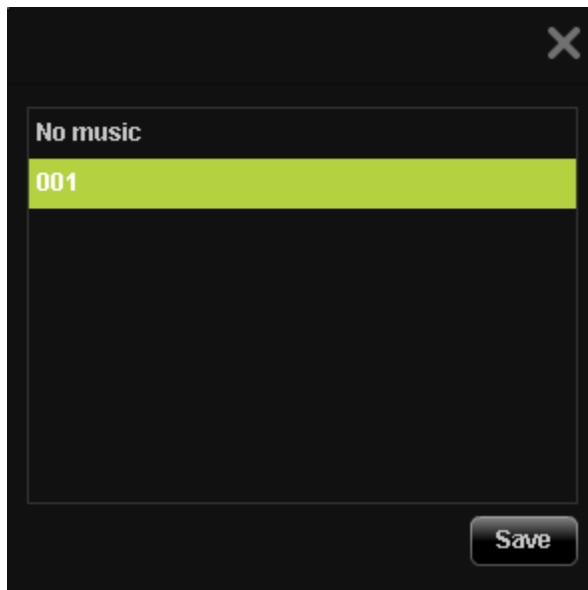
128 'All comments(')'





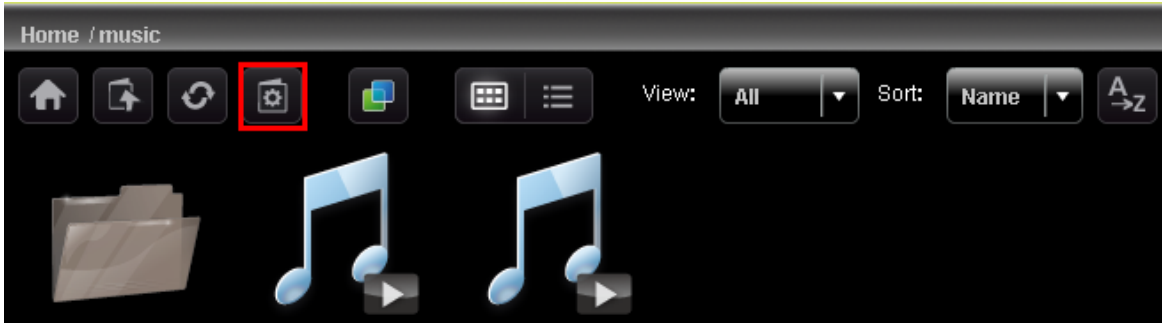
'Save()'

'No music()'



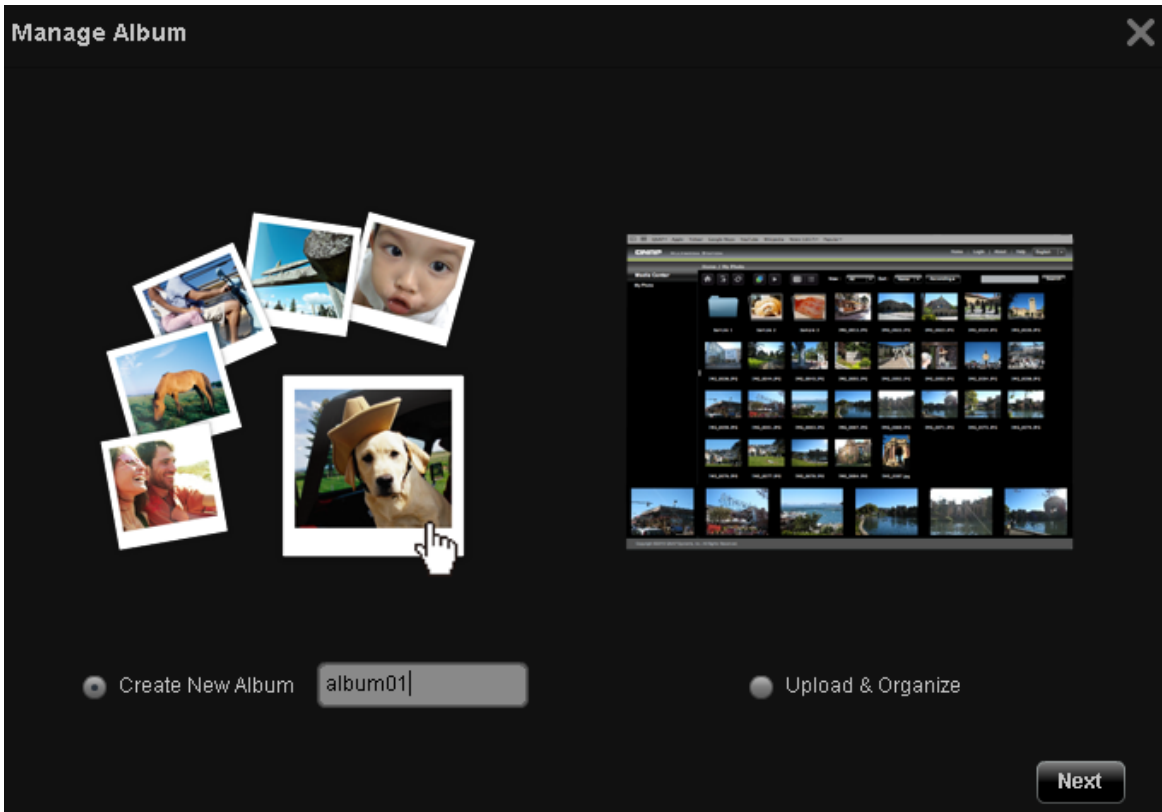
Multimedia Station (), Media Center()

()



'Create New Album()' . 'Next()'

1 - 64 | \ : ? " < > *

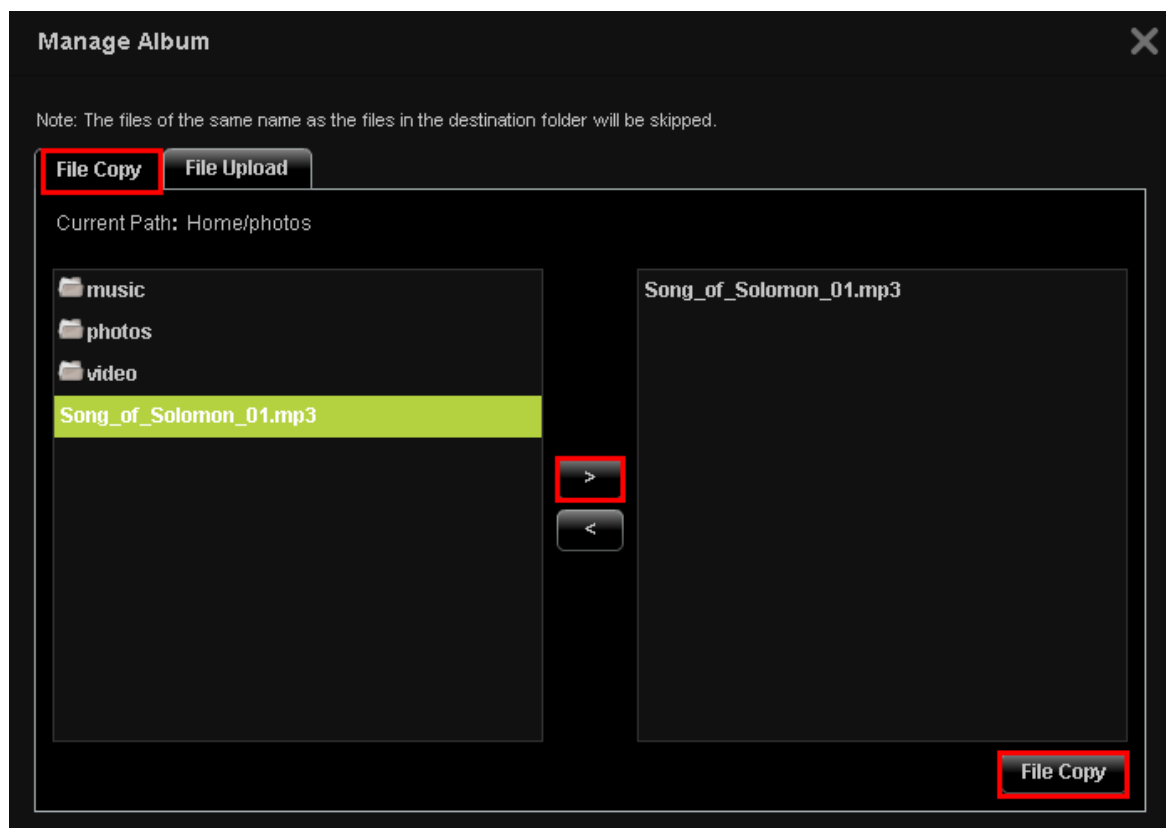


Media Center()

>

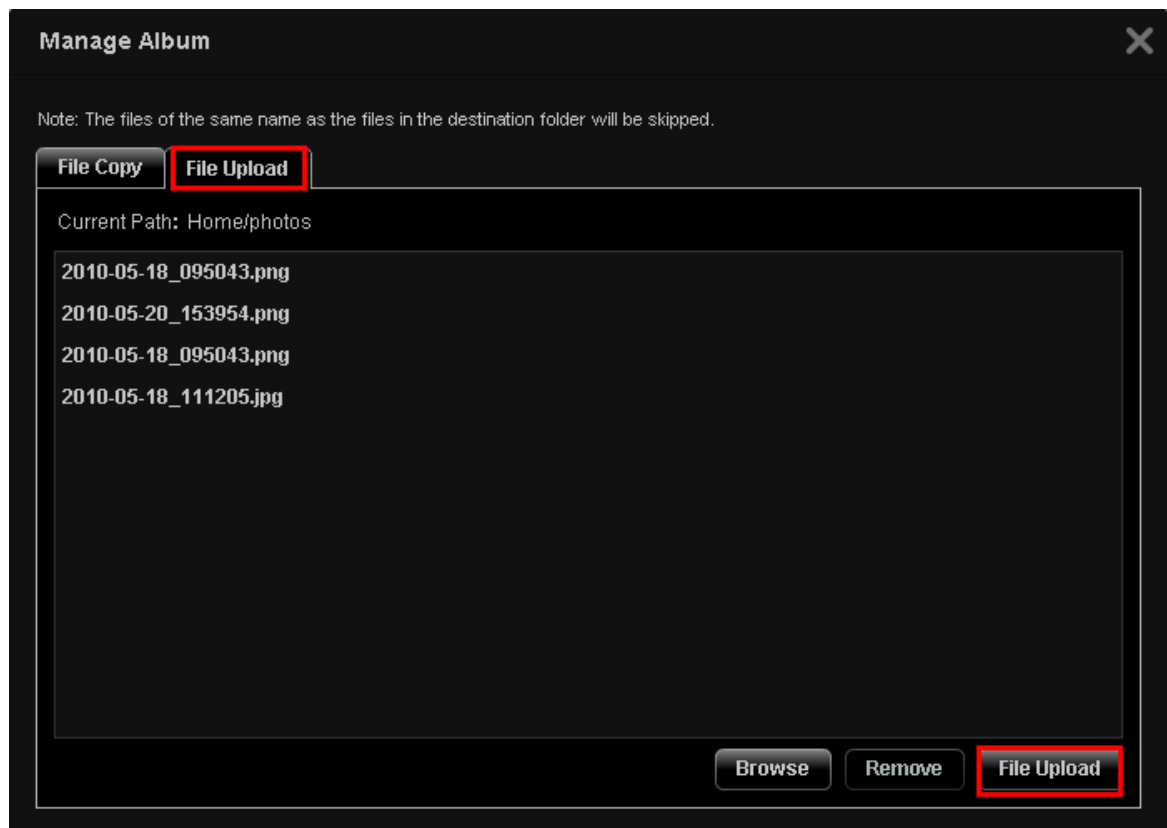
'File Copy()'

'File Copy()'



'Browse()'

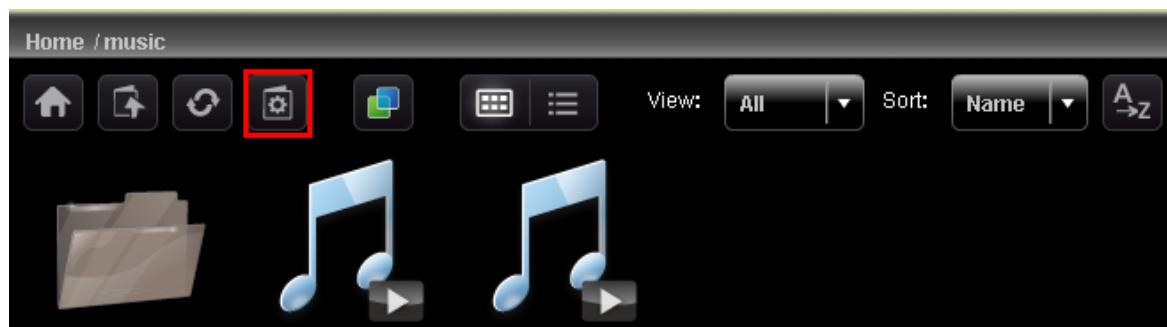
'File Upload()'



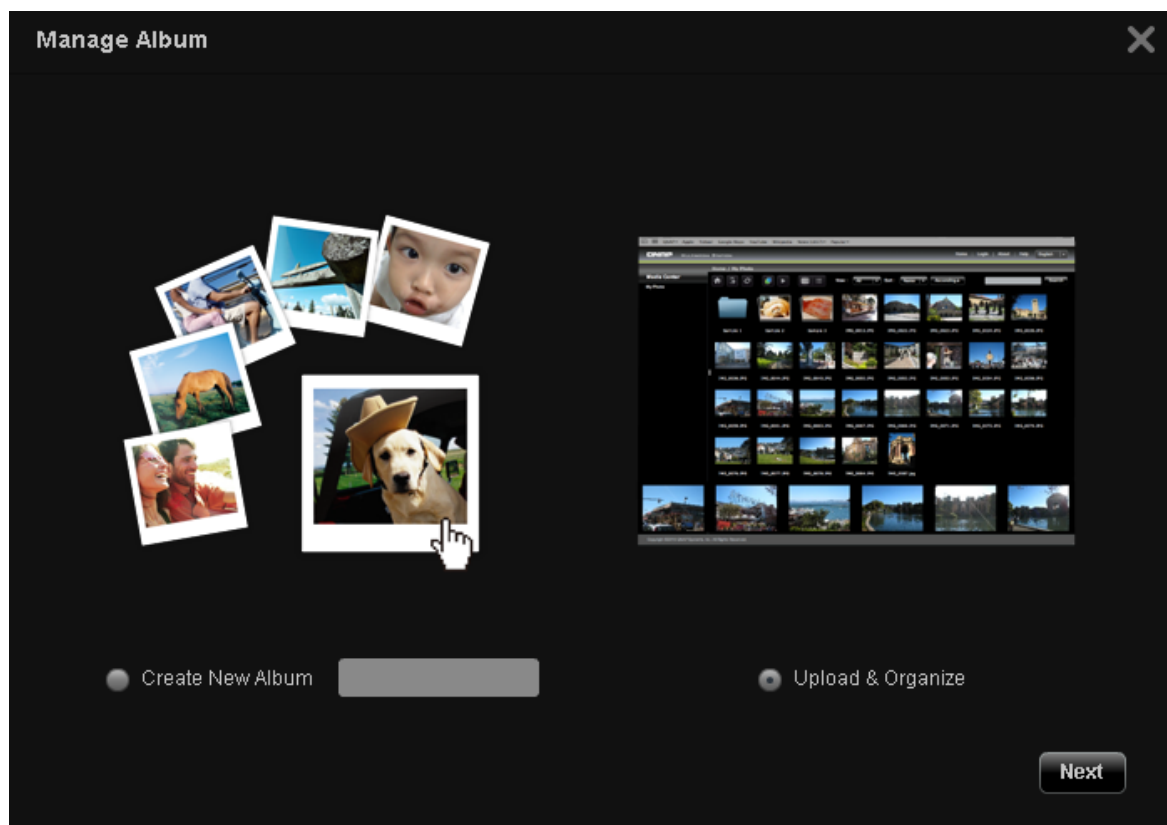
Multimedia Station (), Media Center()



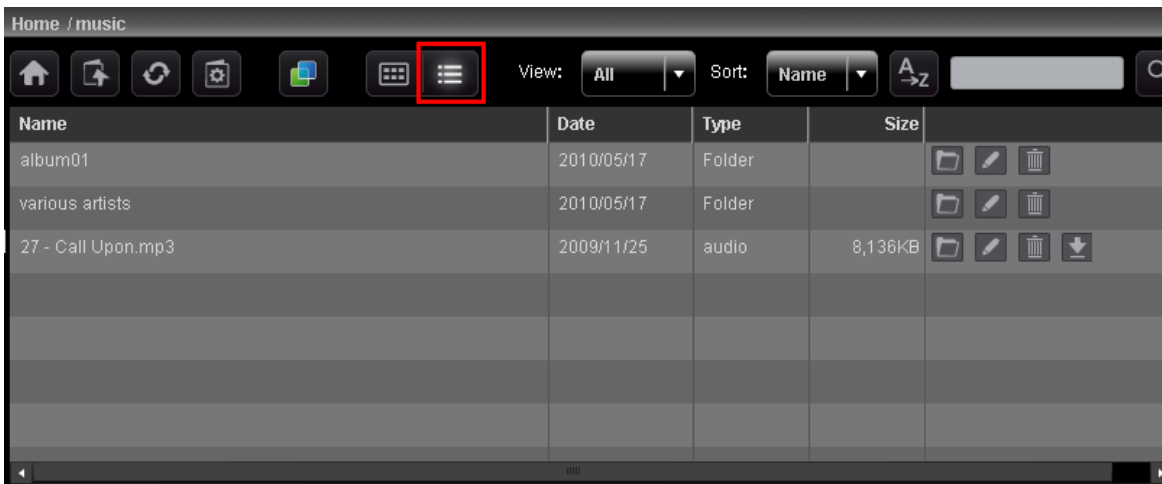
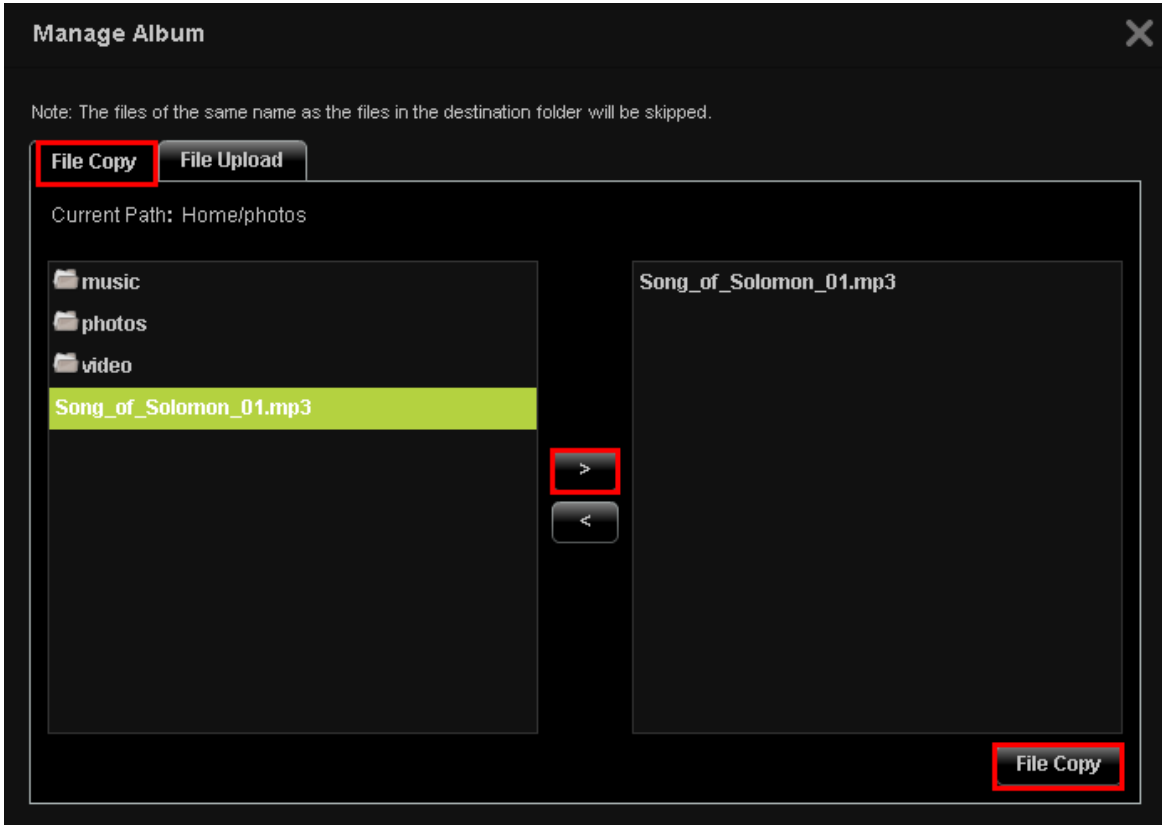
()

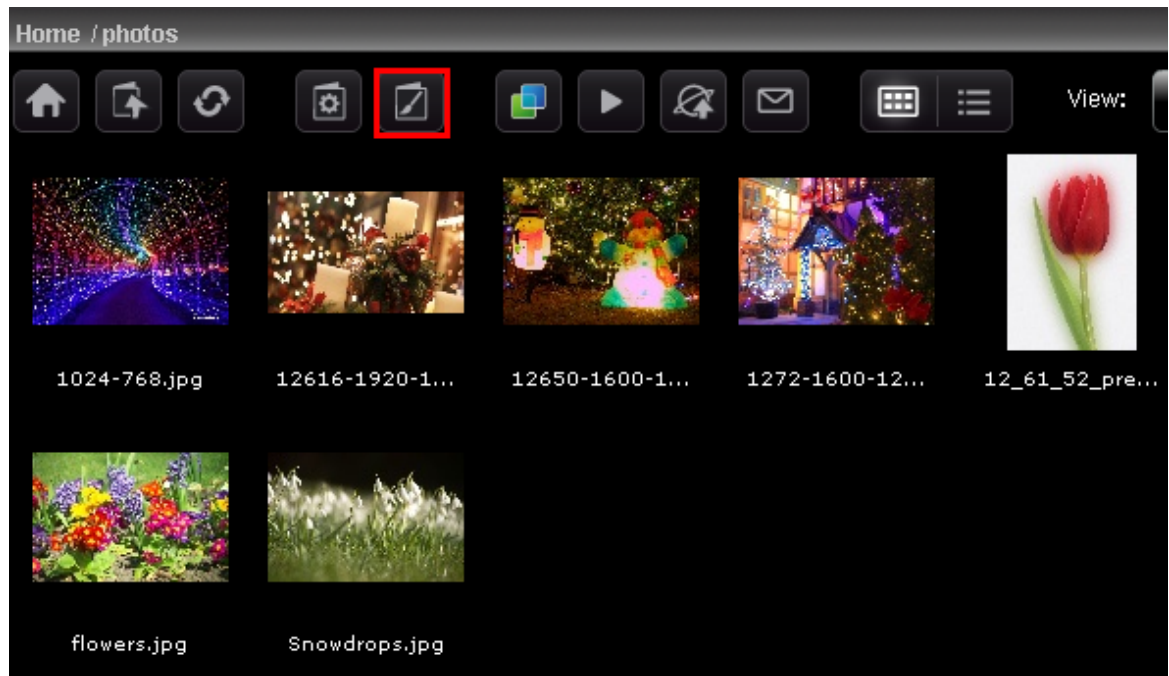


'Upload & Organize()' 'Next()'

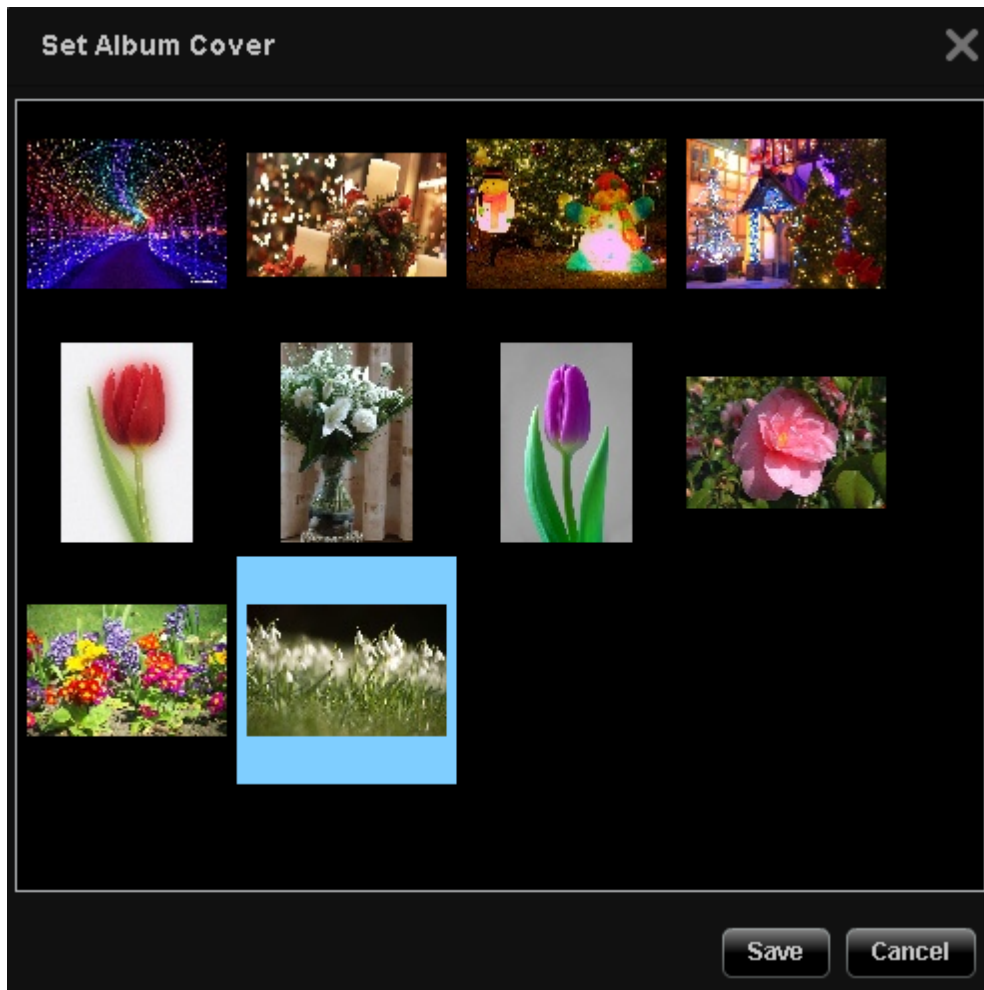


Media Center()
> 'File Copy()'
'Browse()' 'File Upload()'





'Save()'

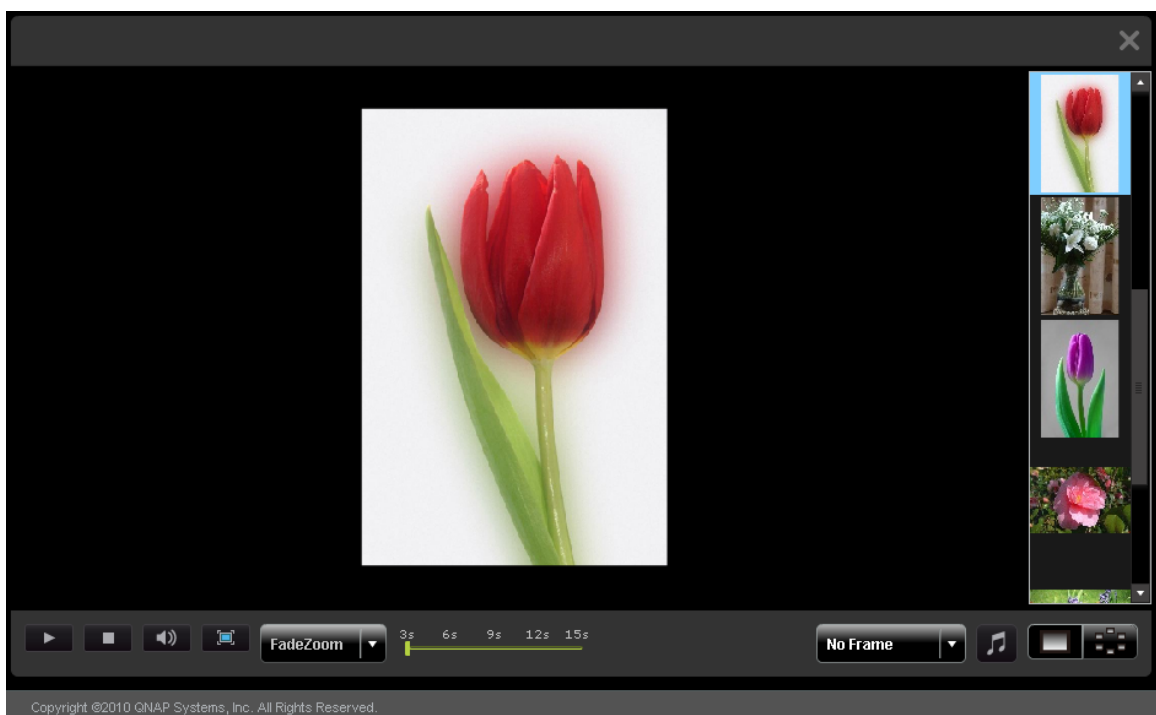


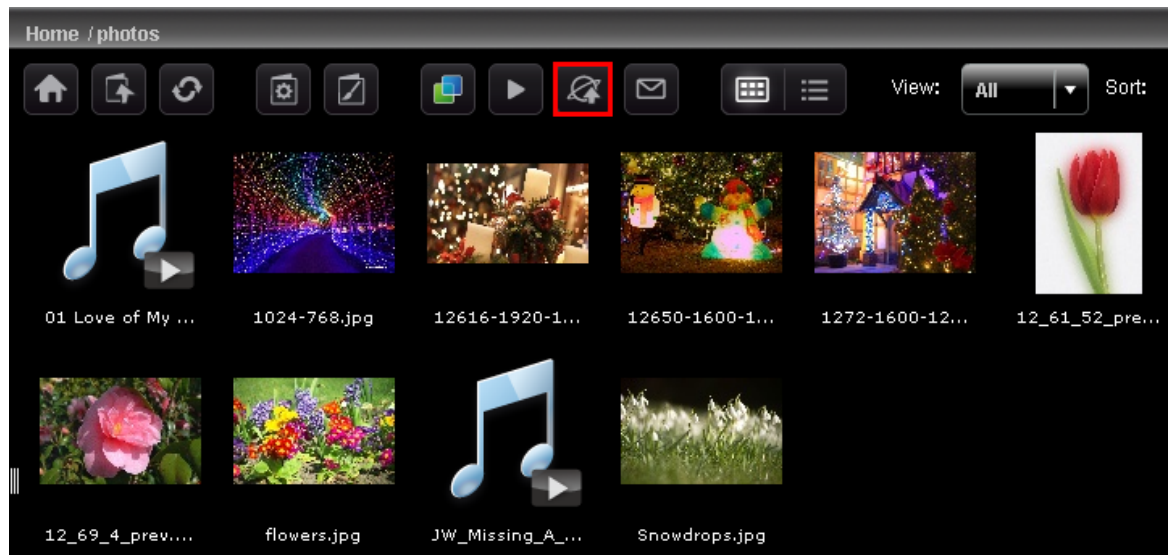


(3 / 6 / 9 / 15)

()

3D




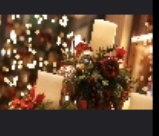
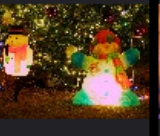
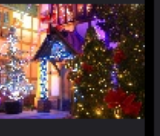



(Control Panel())
 > Set Folder Public())
 . NAS DDNS
 Multimedia Station

Title()	: 256
Link()(NAS IP)	, (.), (/) : 256
	: 1024





QNAP MULTIMEDIA STATION Clicking the images you want to publish

←







→

Title:
Link: /MSV2/

B I U ABC | ↶ ↷ | 🗑️ | ☰ ☱

Publish to

SMTP

NAS



'Send()'

Subject()	: 128
My Name()	(A-Z, a-z), (0-9), (-), (_)
My Email()	: 128
Friend's Name()	: 128
Friend's Email()	: 128
Message()	: 1024

QNAP MULTIMEDIA STATION Clicking the images you want to publish

1 / 2

Selected Images

Subject:

My Name:

My Email:

Friend's Name:

Friend's Email:

You can post your personal message here.

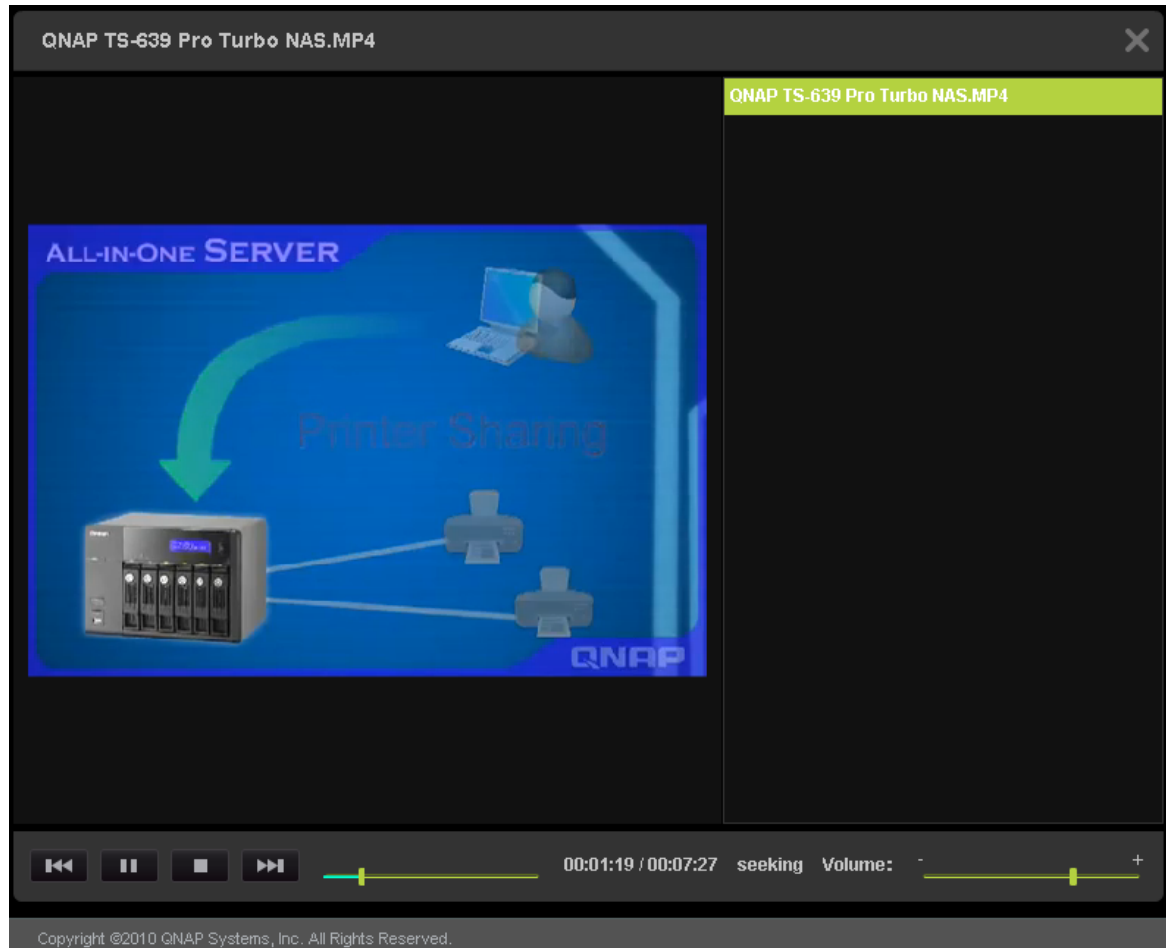
Message:

Send

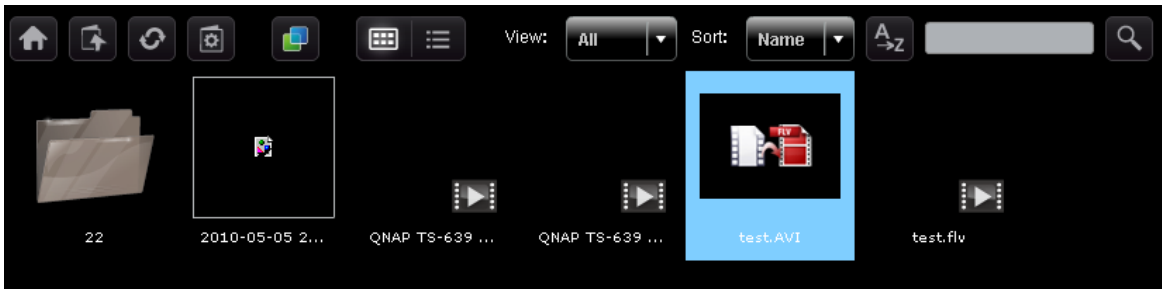
NAS

NAS가

가 'X'


























AVI, M4V, MPG/MPEG, RM/RMVB, WMV , Multimedia
Station



FLV

QNAP NAS Multimedia Station

Home /video

Name	Date	Type	Size	
22	2010/05/17	Folder		  
2010-05-05 22-00-07~22-01-09.avi	2010/05/17	video	2,010KB	   
QNAP TS-639 Pro Turbo NAS.MP4	2010/05/13	video	27,849KB	   
QNAP TS-639 Pro Turbo NAS_2.MP4	2010/05/17	video	27,852KB	   
test.AVI	2010/05/17	video	129,870KB	   
test.flv	2010/05/17	video	40,477KB	   

My Jukebox ()		
<hr/>		
	My Jukebox()	ID3
<hr/>		
My Jukebox()	'Control Panel()' > 'Playlist Editor	
()'	. My Jukebox()	
Multimedia Station		

Multimedia Station	.	NAS(Access Right
Management() > Users()	'Add
User(가)'	. Multimedia Station	'admin' 128



(A-Z, a-z), (0-9), (-), (_)

32

가 , 가 . 'Save()' . 1 - 16 . A-Z, a-z, 0-9, -, !, @, #, \$, %, _

Add User

Username *
test

Password *

Verify Password *

Description

☐ Is Admin

☐ Disabled

Inaccessible Folder

music
video

Accessible Folder

photos

>

<

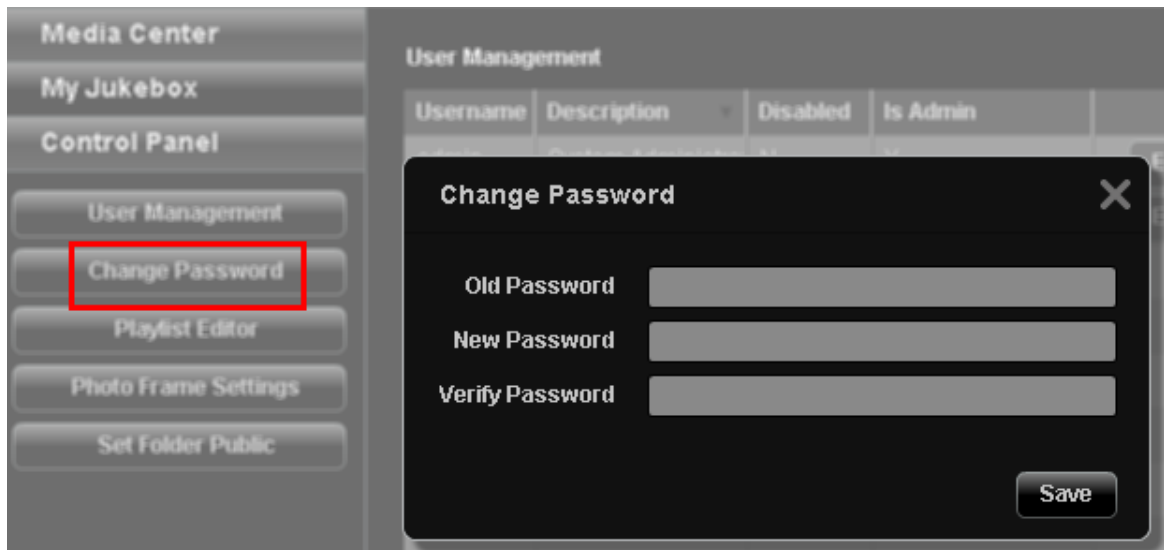
Save
Cancel

가

'admin'

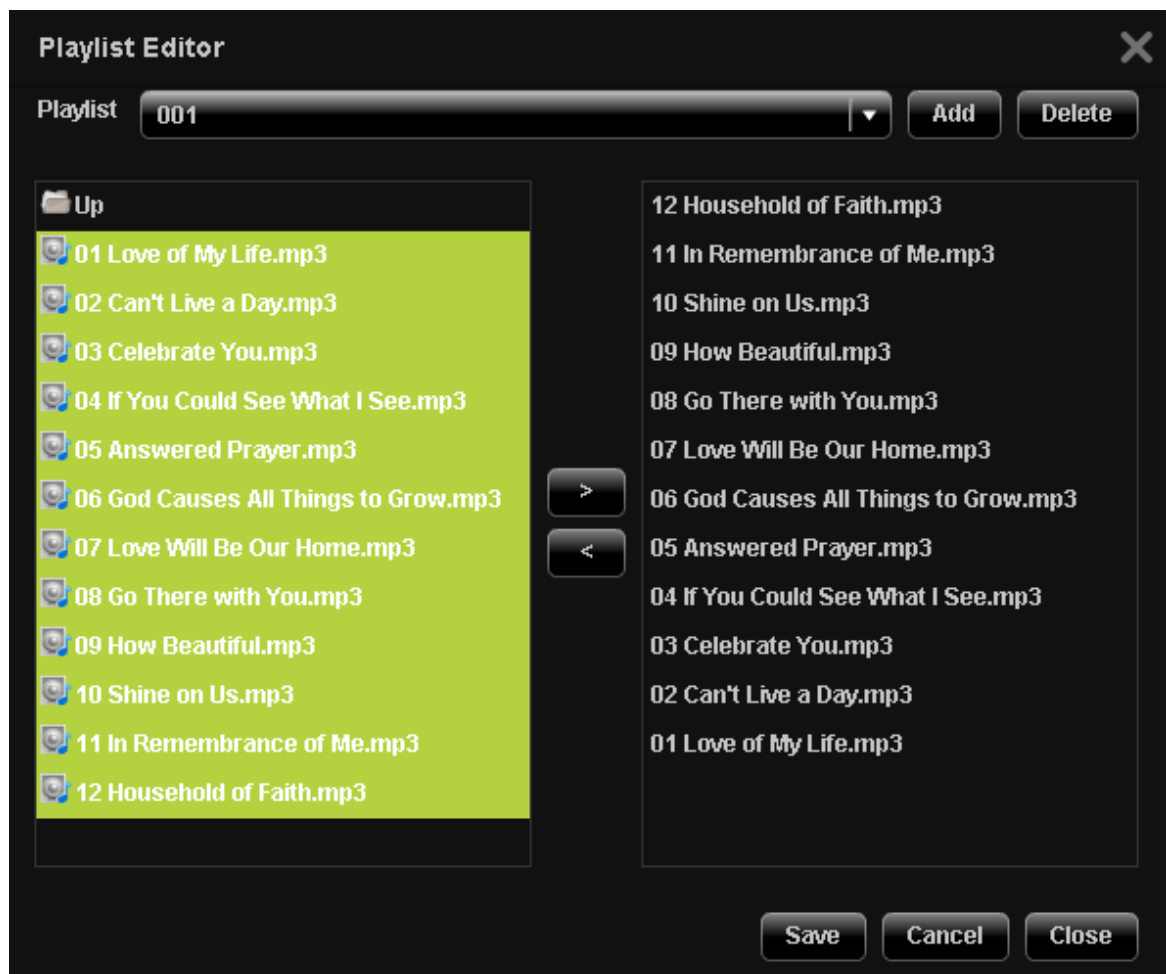
User Management						
Username	Description ▼	Disabled	Is Admin			
admin	System Administra	N	Y	Edit User		
test		N	N	Edit User	Delete User	Change Password

-, !, @, #, \$, %, _



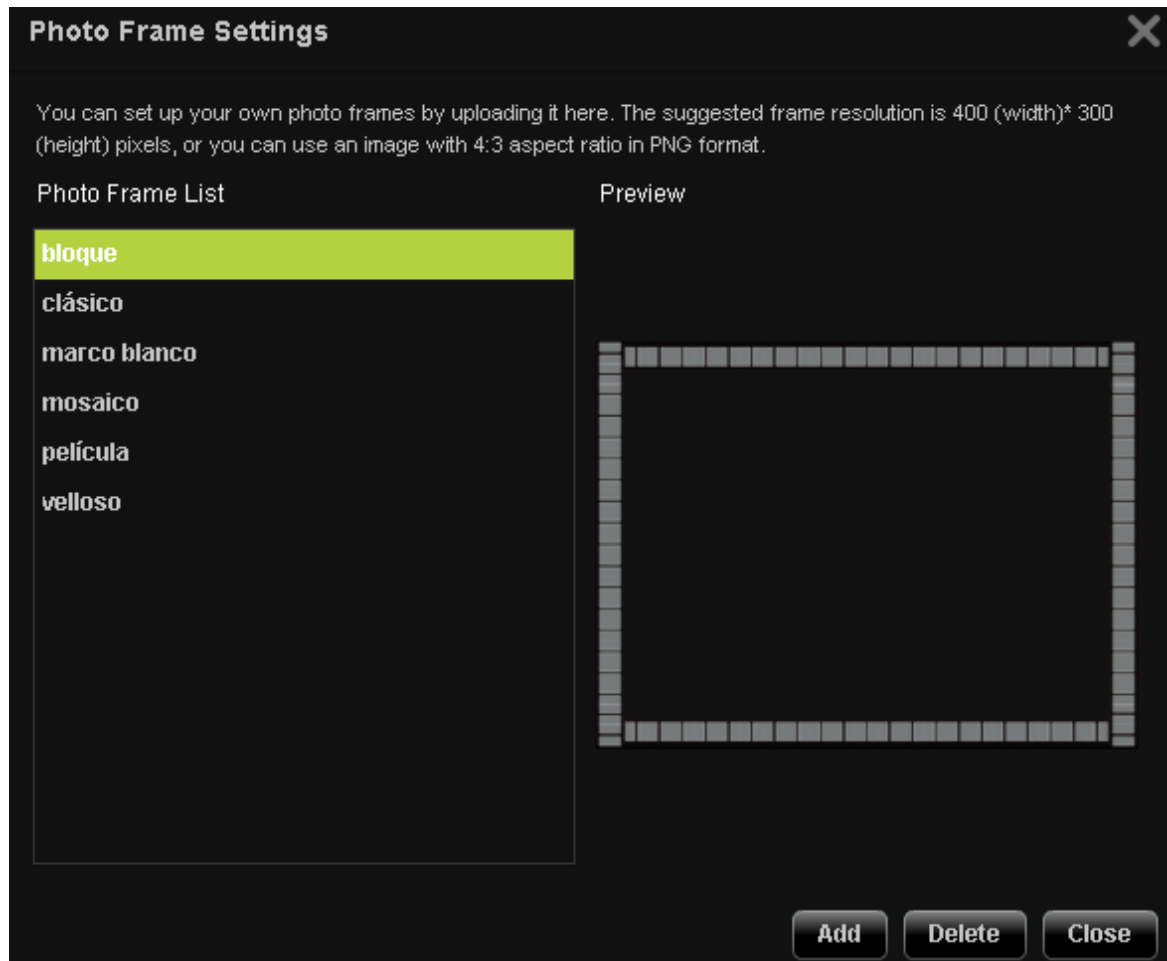
Playlist Editor()
 'Add(가)'
 (Multimedia Station) >
 가 'Save()' 'Close()'
 My Jukebox()

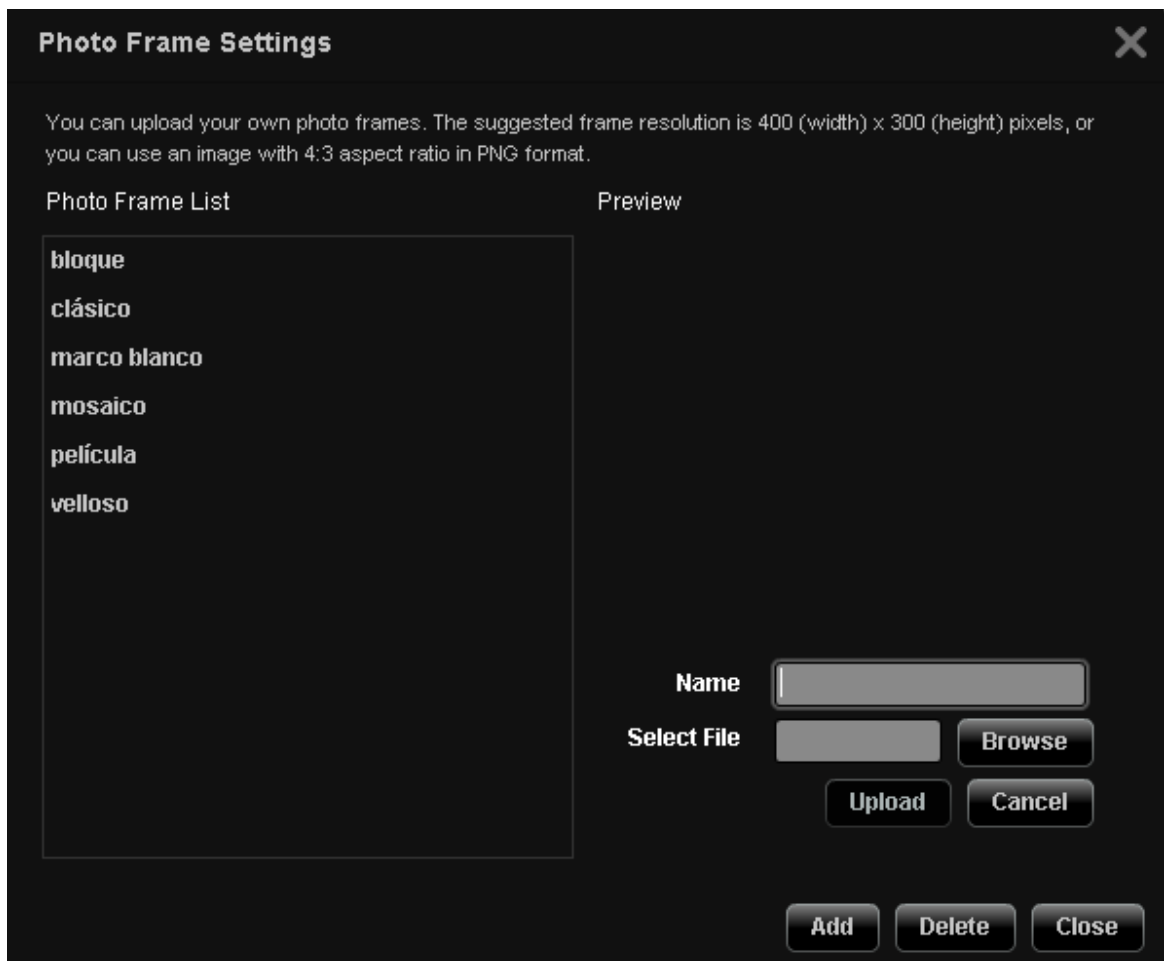
	24
	512
	128



4:3
가)'

400 () x 300 ()
PNG
가 'Add(

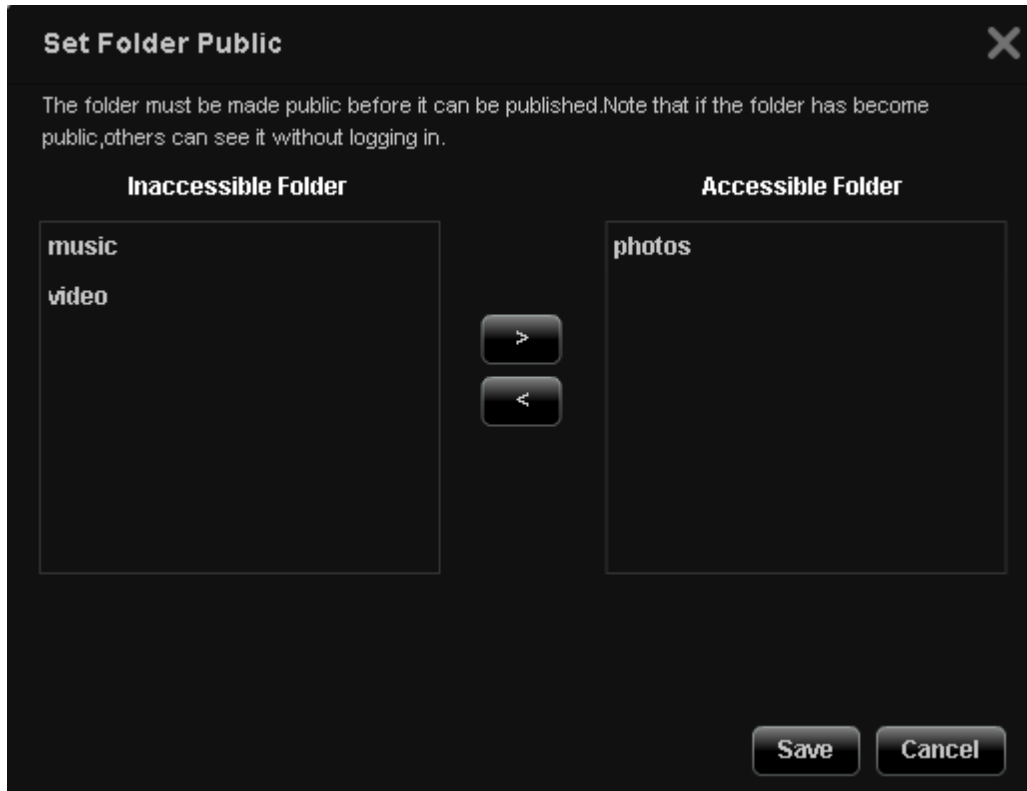




'Save()'

Multimedia Station

>



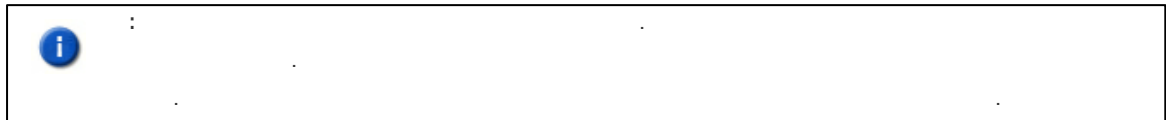
4.7 (Download Station)

NAS BT, HTTP FTP
가

. NAS

가

PC



1. “ ”> “ ”

Download Station

Download Station

- ☒ Enable Download Station
- ☐ Show service link on the login page

APPLY

2. NAS 'Download Station '
- NAS

3. BT 가 FTP/HTTP 가

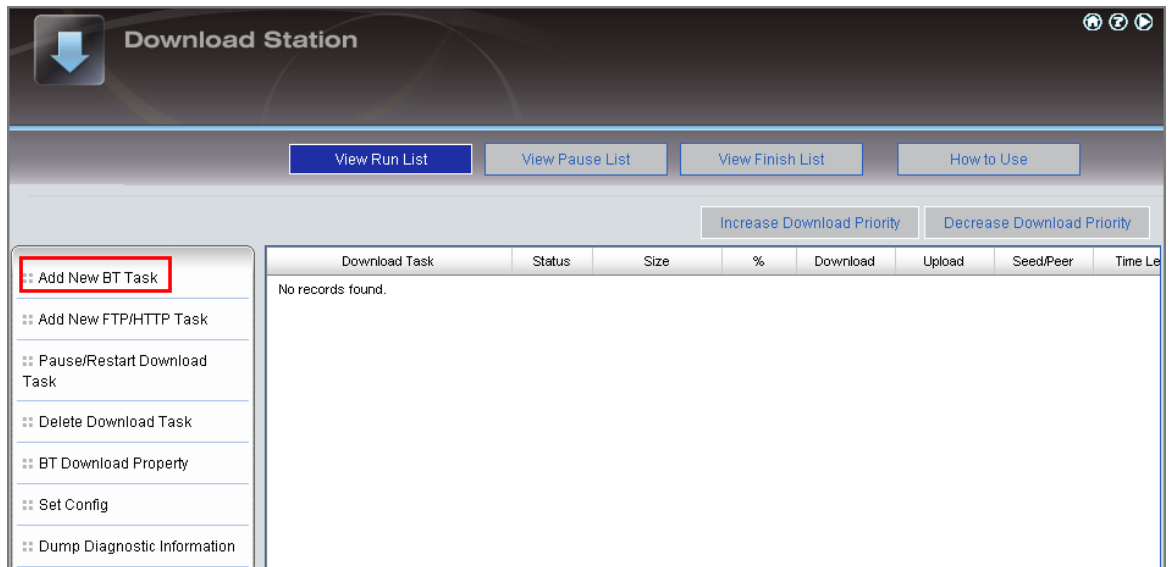
BT 가

“ BT 가 ”

. www.legaltorrents.com

가

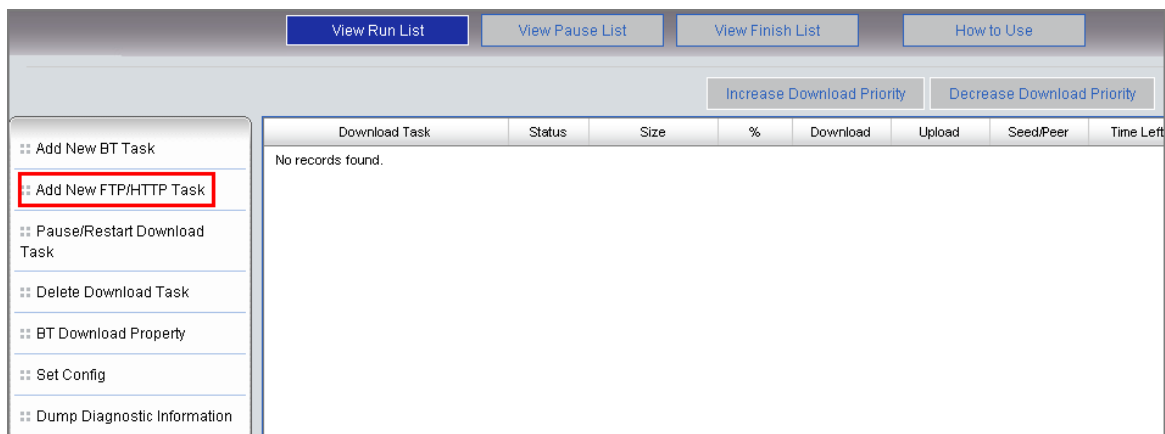
NAS



FTP/ HTTP 가

FTP , “ FTP/HTTP 가 ” . FTP URL
 (. , ‘OK ’ .

HTTP , “ FTP/HTTP 가 ” . HTTP URL
 , ‘OK ’ .



4. , “ ” .List ?

View Run List
View Pause List
View Finish List
How to Use

Increase Download Priority
Decrease Download Priority

Download Task	Status	Size	%	Download	Upload	Seed/Peer	Time Left
abceeeeee.torrent	RUN	540.37 MB	0.0	0.0 KB/s	0.0 KB/s	0/0	99:99:99

Add New BT Task
Add New FTP/HTTP Task
Pause/Restart Download Task
Delete Download Task
BT Download Property
Set Config
Dump Diagnostic Information

5. ‘BT’ ” DHT
가 .

Add New BT Task
Add New FTP/HTTP Task
Pause/Restart Download Task
Delete Download Task
BT Download Property
Set Config
Dump Diagnostic Information

Download Task	Status	Size	%	Download	Upload	Seed/Peer	Time Left
abceeeeee.torrent	RUN	540.37 MB	0.0	0.0 KB/s	0.0 KB/s	0/0	99:99:99

: (0) , 가
Finish List .

<div> <div> Add New BT Task </div> <div> Add New FTP/HTTP Task </div> <div> Pause/Restart Download Task </div> <div> Delete Download Task </div> <div> BT Download Property </div> <div> Set Config </div> <div> Dump Diagnostic Information </div> </div>	<table> <tr> <th>Download Task</th><th>Status</th><th>Size</th><th>%</th><th>Download</th><th>Upload</th><th>Seed/Peer</th><th>Time Left</th></tr> <tr> <td>abceeeeee.torrent</td><td>RUN</td><td>540.37 MB</td><td>0.0</td><td>0.0 KB/s</td><td>0.0 KB/s</td><td>0/0</td><td>99:99:99</td></tr> </table>	Download Task	Status	Size	%	Download	Upload	Seed/Peer	Time Left	abceeeeee.torrent	RUN	540.37 MB	0.0	0.0 KB/s	0.0 KB/s	0/0	99:99:99
Download Task	Status	Size	%	Download	Upload	Seed/Peer	Time Left										
abceeeeee.torrent	RUN	540.37 MB	0.0	0.0 KB/s	0.0 KB/s	0/0	99:99:99										

[illegible]

9. , “ ”

10. 

11. , NAS Qdownload/ Download 가 .

[]

Increase Download Priority

Decrease Download Priority

:: Add New BT Task

:: Add New FTP/HTTP Task

:: Pause/Restart Download Task

:: Delete Download Task

:: BT Download Property

:: Set Config

:: Dump Diagnostic Information

Download Task	Status	Size	%	Download	Upload	Seed/Peer	Time Left
abceeeee.torrent	RUN	540.37 MB	0.0	0.0 KB/s	0.0 KB/s	0/1	99:99:99
cdeeeeeee.torrent	RUN	540.37 MB	0.0	0.0 KB/s	0.0 KB/s	0/1	99:99:99

Download Station

Dump Diagnostic Information:

Download task:

Size:

Percent:

Download Totals:

Upload Total:

Share Time:

Start Time:

abccccc.torrent

771.55 MB

0.0 %

0.0 MB

0.0 MB

0 hr

Fri Oct 23 18:40:12 2009

No Error!

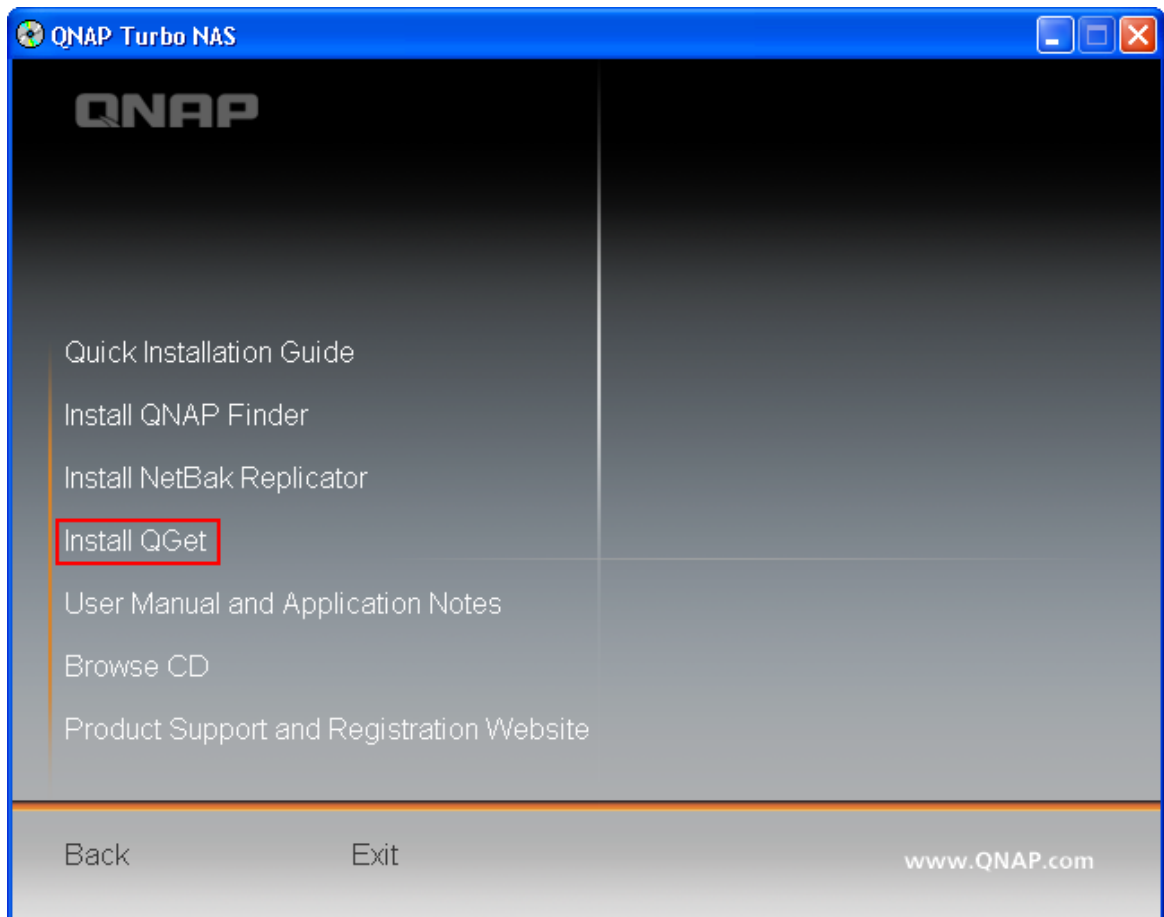
OK

236

QGet

QGet LAN WAN NAS BT, HTTP FTP
Download Station
가 Windows 2000/ XP/ Vista/ Windows 7/ Mac QGet
NAS

1. QGet , CD-ROM



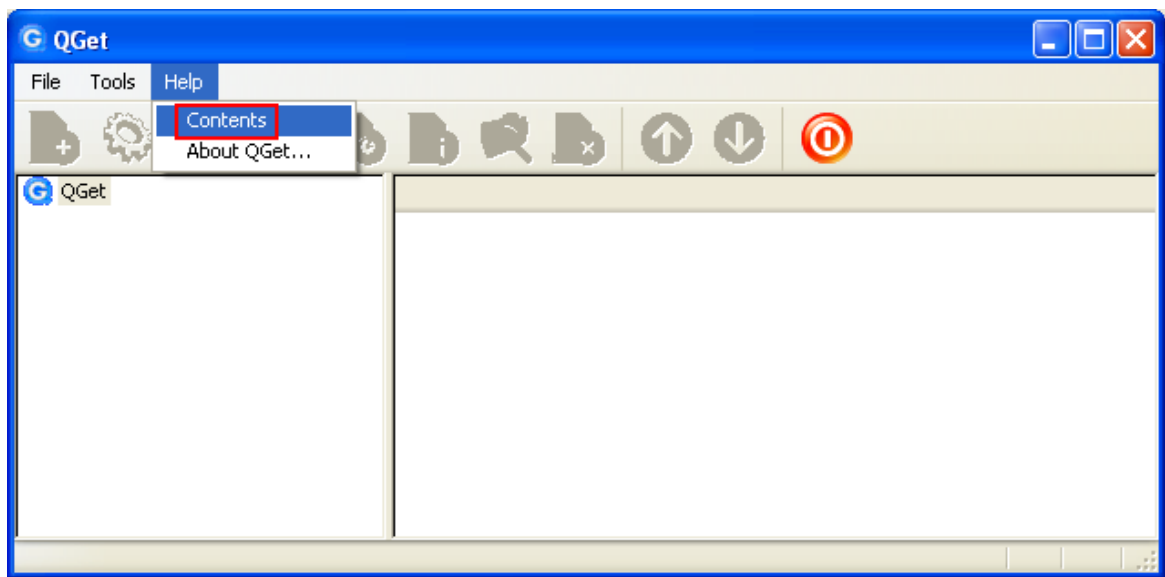
2. QGet



3. QGet



4. QGet



4.8 (Surveillance Station)

2-4

(LAN WAN)

I P	N A S
2	TS-110, TS-119, TS-210, TS-219, TS-219P, TS-239 Pro, TS-239 Pro II, TS-259 Pro
4	TS-410, TS-419P, TS-410U, TS-419U, SS-439 Pro, TS-439 Pro, TS-439 Pro II, TS-439U-SP/RP, TS-459 Pro, TS-459U-SP/RP, TS-509 Pro, TS-559 Pro, TS-639 Pro, TS-659 Pro, SS-839 Pro, TS-859 Pro, TS-809 Pro, TS-809U-RP, TS-859U-RP

:	TS-x39/509/809	CD
---	----------------	----

Home >> Applications >> Surveillance Station

Welcome admin | Logout

English

Surveillance Station

Surveillance Station

☒ Enable Surveillance Station

☒ Show service link on the login page

APPLY

NAS

"Surveillance Station "

. NAS

: IE 6.0

NAS

- 1.
2. IP
3. NAS
4. NAT ()

i. NAS IP

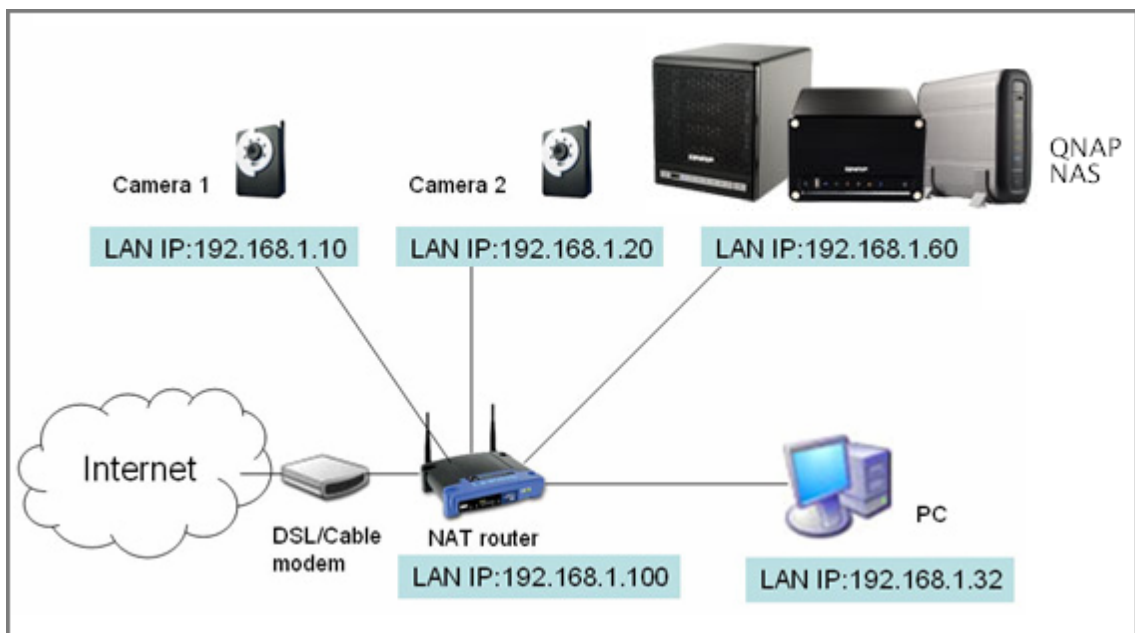
ii. IP

IP 가

, NAS, IP LAN

IP NAS IP

- LAN IP: 192.168.1.100
- 1 IP: 192.168.1.10 (IP)
- 2 IP: 192.168.1.20 (IP)
- NAS IP: 192.168.1.60 (IP)



IP

IP

. IE

1

IP

LAN

IP

192.168.1.10

LAN IP(

192.168.1.100)

IP

192.168.1.20

IP

<http://www.qnap.com/>

NAS

IE


IP

"

>

"

, IP

**Surveillance Station**
Network Video Recorder

HomeSettingsLive ViewPlaybackLog

Camera SettingsRecording SettingsSchedule SettingsAdvanced Settings

	Camera Name	Brand	IP Address	WAN IP Address
1	Camera 1			
2	Camera 2			

Camera Number:

1: Camera 1

Camera Model:

Axis 205

Camera Name:

Camera 1

IP Address:

☐ Port

80

WAN IP: (for monitoring from public network)

(If your IP camera is installed behind NAT router, you may input the public IP address (or URL) and the corresponding forwarded port of the router.)


☐ Port

80

User Name :

Password :

ApplyRemove

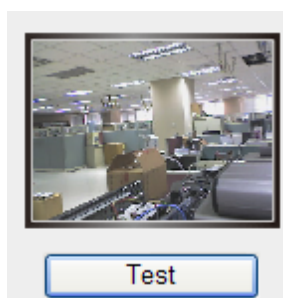


Test

Note: All the camera configuration will not take effect until you click the "Apply" button.

" "

IP



가

"

"

"

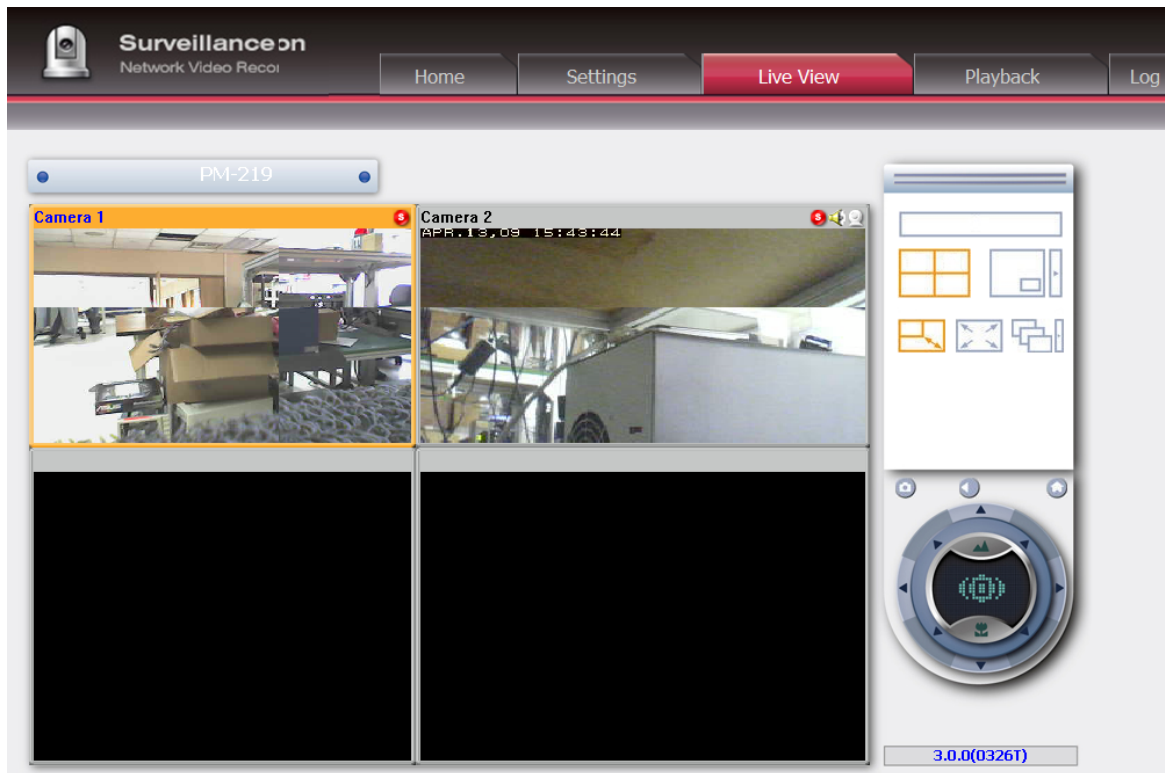
"

Camera Number:	2: Camera 2	▼
Video Compression:	Motion JPEG	▼
Resolution:	QVGA	▼
Frame Rate:	20	▼
Quality:	Normal	▼
<input checked="" type="checkbox"/> Enable audio recording on this camera		
Estimated Storage Space for Recording: 6760 GB		
<button>Apply</button>		

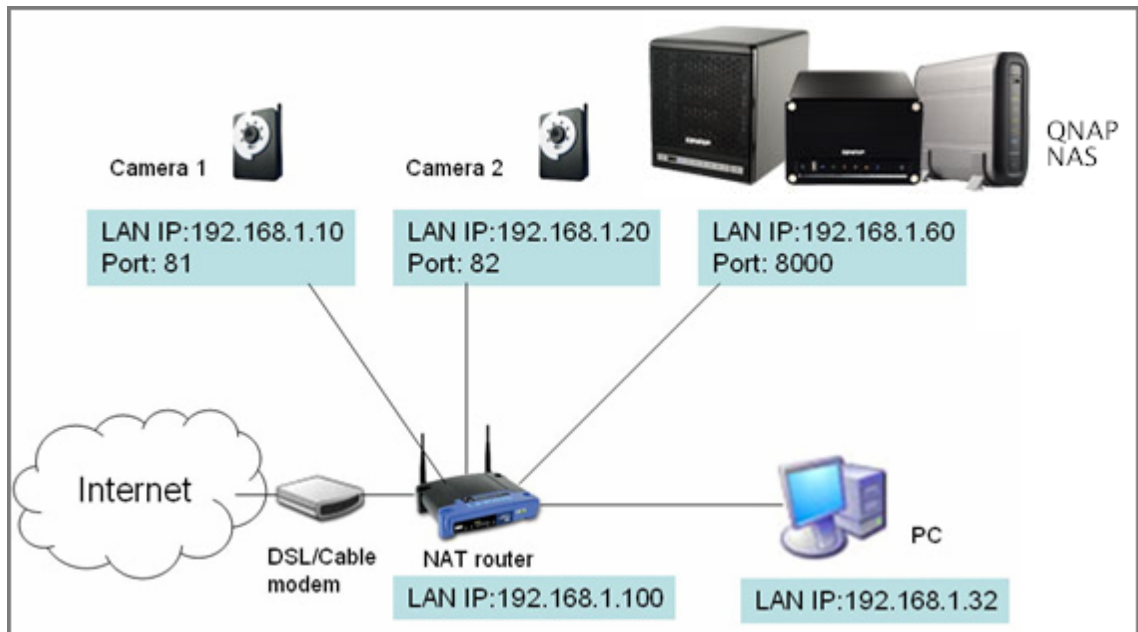
2

..

NAS 가 " " . IE
 1 2 ActiveX




NAT () NAT LAN IP



NAS IP
 NAS HTTP 8080 8000
 http://NAS IP:8000 NAS

IP 1 HTTP 80 81
 2 80 82
 " > " 1 2
 192.168.1.10 81 192.168.1.20 82

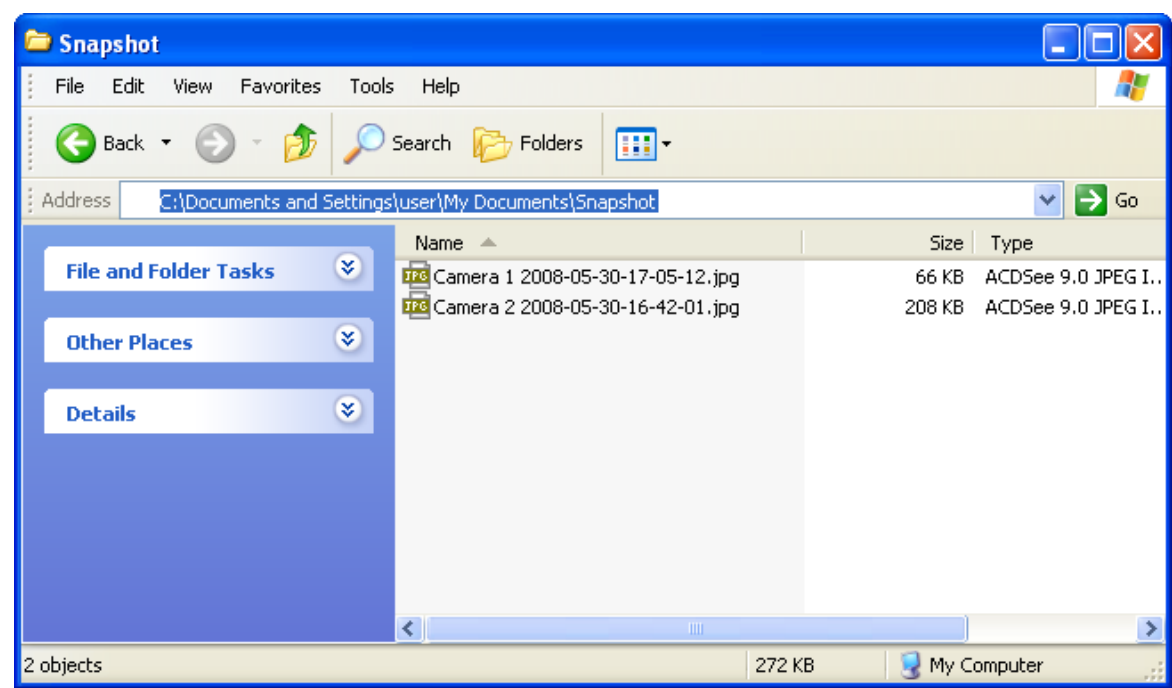
WAN IP (MyNAS.dyndns.org)
 WAN " "

Camera Number:	1: Camera 1	 <input type="button" value="Test"/>
Camera Model:	iPUX ICS 1003/1013	
Camera Name:	Camera 1	
IP Address:	192.168.1.10	
<input checked="" type="checkbox"/> Port	81	
WAN IP: (for monitoring from public network)	myNAS.dyndns.org	
(If your IP camera is installed behind NAT router, you may input the public IP address (or URL) and the corresponding forwarded port of the router.)		
<input checked="" type="checkbox"/> Port	81	
User Name :	administrator	
Password :	*****	
<input type="button" value="Apply"/> <input type="button" value="Remove"/>		
Note: All the camera configuration will not take effect until you click the "Apply" button.		

- 8000 NAS LAN IP: 192.168.1.60
- 81 1 LAN IP: 192.168.1.10
- 82 2 LAN IP: 192.168.1.20 .1.20

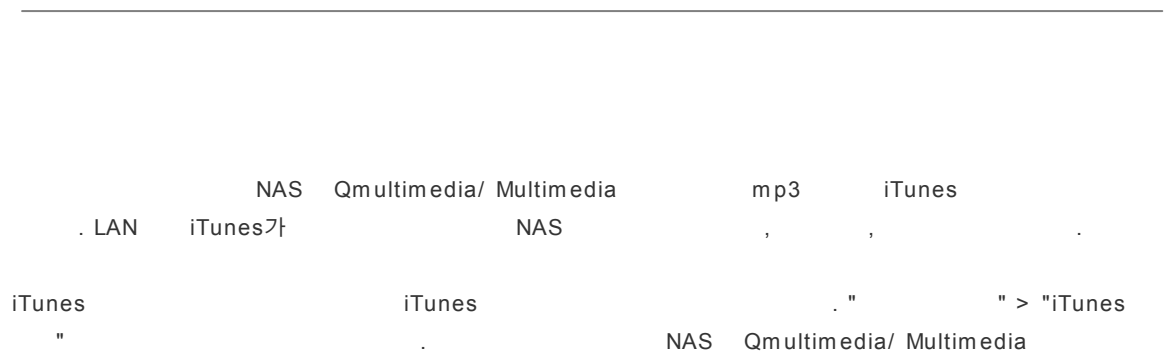
:	가	가	8000
NAS			

Windows 7 Vista 'My Documents "() > 'Snapshot "() (Windows XP) .
'Documents "() > 'Snapshot "() .



\\NASIP\Qrecordings \\NASIP\Recordings . "record_nvr"
"record_nvr_alarm" .

4.9 iTunes



iTunes Service

GENERAL

SMART PLAYLIST

iTunes Service

After iTunes service is enabled, all iTunes clients in the same subnet can play the music files in the "Multimedia" folder on the server.

☒ Enable iTunes Service

☐ Password required:

Please select the label encoding of the music files. Select the correct encoding to display the label information correctly. Please select English for non-Asian languages.

Label encoding: Chinese-Traditional

APPLY

Password required(): 가

iTunes



iTunes

PC QNAP Turbo NAS LAN PC iTunes iTunes
(NAS) NAS Qmultimedia(
Multimedia) 가



NAS



: iTunes

<http://www.apple.com/>

4.10 UPnP Media Server

NAS DLNA UPnP TwonkyMedia 가 NAS (DMP)
DLNA NAS DLNA
TV NAS

UPnP Media Server (http://NAS IP:9000/) UPnP Media Server

UPnP Media Server

UPnP Media Server

☒ Enable UPnP Media Server

☐ After enabling this service, click the following link to enter UPnP Media Server configuration page.
http://10.8.12.46:9000/

APPLY

http://NAS IP:9000/ TwonkyMedia "> " 가

NAS Qmultimedia/ Multimedia
" "> " "> " 가
가

mp3, NAS
, mp3, NAS Qmultimedia/ Multimedia

:	Media Player	, Media
Server	"Rescan content directories"	"Restart server"

NAS UPnP 353

UPnP DLNA

UPnP() UPnP . UPnP
가 . UPnP
, UPnP .

UPnP .

DLNA(Digital Living Network Alliance) 가 , (DLNA)

. 가
, DLNA . 가

DLNA 가 가

4.11 MySQL

: TS-x39/509/809 CD
(<http://www.qnap.com/>).

MySQL

TCP/ IP

MySQL

가

, MySQL

3306

NAS

Qweb/ Web

phpMyAdmin 가

<http://>

NAS IP/phpMyAdmin/

phpMyAdmin

가 MySQL

:

- phpMyAdmin

MySQL Server

<http://NAS IP/>

- phpMyAdmin 가

- root : MySQL root 가 "admin "
- : MySQL 가

NAS phpBB 364

MySQL Server

MySQL Server

You can enable MySQL server as the website database.

☒ Enable MySQL Server
 Enable this option to allow remote connection of MySQL server.

☐ Enable TCP/IP Networking
 Port Number:

Note: You can install the phpMyAdmin package to manage your MySQL server. To install the phpMyAdmin, please click [here](#).

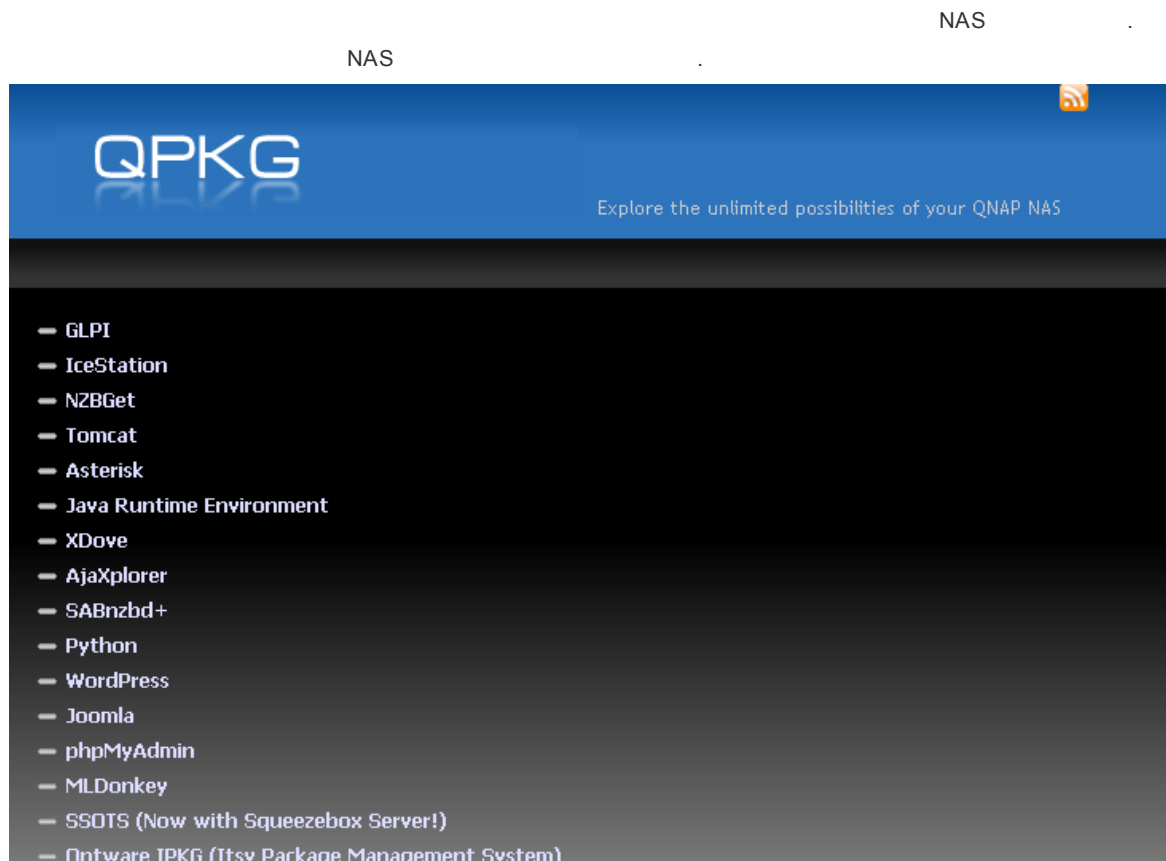
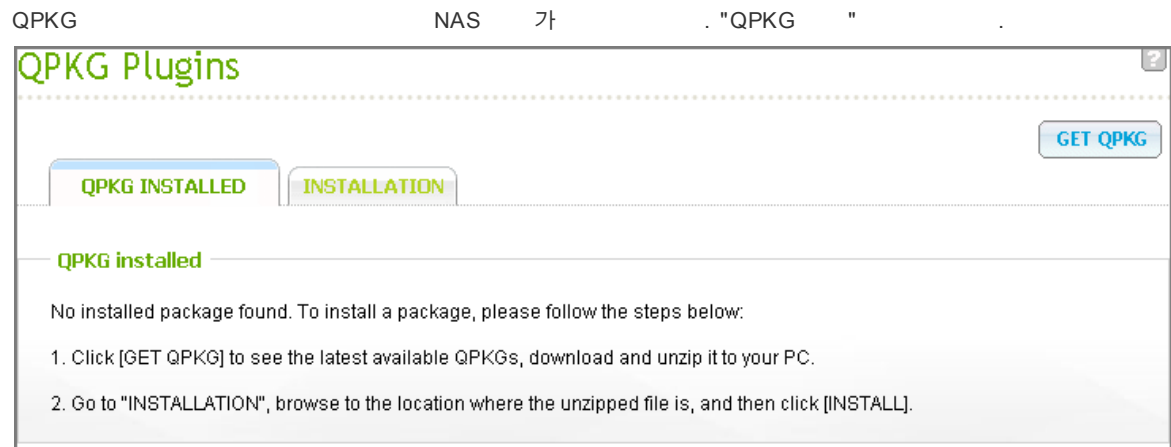
APPLY

Database Maintenance

You can reset the database password or re-initialize the database.

RESET ROOT PASSWORD **RE-INITIALIZE DATABASE**

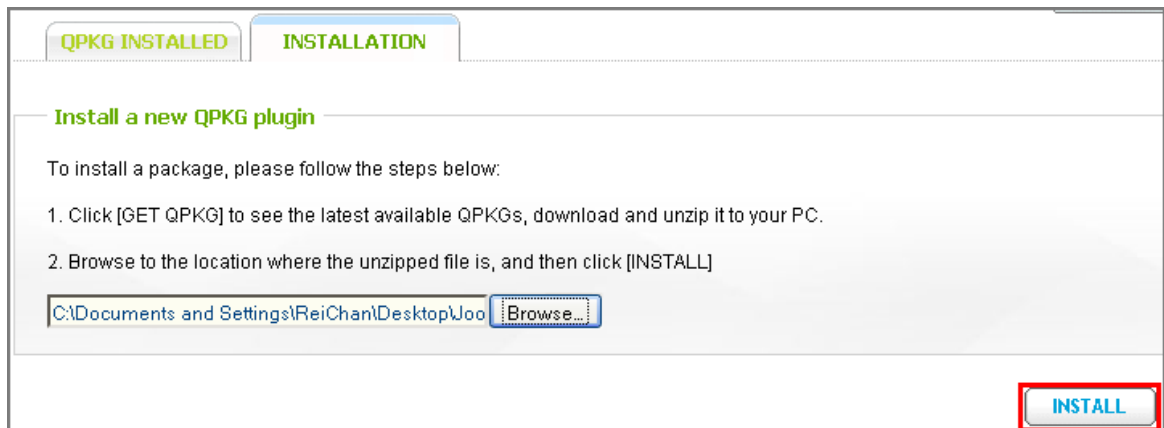
4.12 QPKG



QPKG

. QPKG

qpkg







QPKG

가 QPKG

. NAS



4.13


USB 

Time Machine 

4.13.1

- Backup Now():
- Schedule Backup():
- Auto-backup(): 가 NAS

Copy Options():
"Copy"() "Synchronize"() . "Copy"()
NAS "Synchronize"() NAS
가

: . NAS
가

External Drive

Back up to an external storage device

Back up the local disk data to an external storage device. You can select instant, automatic, or schedule backup.

Available shares

- Network Recycle Bin 1
- Qdownload
- Qmultimedia
- Qrecordings
- Qusb
- Qweb
- rei



Shares to back up

- Public

Back up to an
External Storage
Device:

USBDisk1 ▼ The drive is ready.

Free Size/Total Size: 1899 MB / 1900 MB

Backup Method:

Backup Now ▼ Execute backup immediately.

Copy options:

Synchronize ▼ **WARNING! Files are copied from the source to the destination. Extra files on the destination will be deleted, files of the same names will be overwritten by the source. Source data will remain unchanged.**

Current Backup
Status:

No backup operations.

Last Backup Time:

Last Backup
Result:

APPLY

USB One Touch Copy

USB One Touch Copy

Configure the function of the USB one touch copy button.

- ☐ Copy from the front USB storage device to the directory of the internal disk.
- ☒ Copy to the front USB storage device from the directory of the internal disk.
Backup method: **WARNING! Files are copied from the source to the destination. Extra files on the destination will be deleted, files of the same names will be overwritten by the source. Source data will remain unchanged.**
- ☐ Disable one touch copy button


Note: The USB LED blinks when data backup to an external device is in process. The USB one touch copy button will be disabled temporarily. If you press the button during the data transfer process, the server will beep thrice to alert you the button is disabled. Please wait for the backup to finish and the USB LED to stop flashing, and then use the USB one touch copy button again.

APPLY

U S B

- NAS USB USB NAS
1. 가 NAS , Qusb/ Usb가
 2. NAS
 3. “ > USB ”
 4. USB NAS USB
 5. . NAS 가

: , NAS

 :

4.13.3

- LAN NAS QNAP NAS Rsync
- : 873
- : 가 , 가
- : 가
 - Rsync NAS : 가
NAS

Remote Replication

REMOTE REPLICATION

AMAZON S3

Remote Replication

By using this function, you can back up the data on the local server to a remote server of the same NAS series, and also allow backup from remote server to the local server.

Port Number:

☒ Enable backup from a remote server to the local host

☐ Allow remote Rsync server to back up data to NAS

User Name:

Password:

APPLY

Current Jobs

Option

Create New Replicating Job

<input type="checkbox"/>	Job Name	Schedule	Status	Action
<input type="checkbox"/>				<div>Delete</div>

NAS

QNAP NAS

. NAS.

1. “ ”

Current Jobs


 Option

Create New Replicating Job

<input type="checkbox"/>	Job Name	Schedule	Status	Action
 Delete				

2.

Remote Replication



Remote Replication Wizard

This wizard helps you create a remote replication job. Enter the name of the remote replication job and click **Next**.

Server type: NAS server

Remote Replication Job Name: backup

Step 1 of 7

NEXT


CANCEL

3. IP (), ,
가 .

:

- 가
- ()

Remote Replication



Remote Destination

Name or IP address of the remote server: 10.8.13.50

Port Number: 873

User Name: admin

Password:


Remote Host Testing: **TEST**

Step 2 of 7

BACK **NEXT** **CANCEL**

4. ()

Remote Replication



Remote Destination

Destination Path :
(e.g. /ShareFolder/Directory)

Remain Capacity : 96.42 GB

Step 3 of 7

BACK

NEXT

CANCEL

5.

Remote Replication



Local Source

Local Path :

(e.g. /ShareFolder/Directory)

Step 4 of 7


BACK

NEXT

CANCEL

6.

Remote Replication



Replication Schedule

Select schedule:

☐ Replicate Now

☐ Daily

☐ Weekly

☒ Monthly

Time :

Step 5 of 7

BACK


NEXT

CANCEL

7.

- Enable encryption(): 'Network Services()' > 'Telnet/ SSH' 'Allow SSH connection(SSH)'
- Activate file compression(): WAN
- Stop network file services while replicating(): 가 Samba (SMB), AFP, FTP NAS
- Perform incremental replication(): NAS가
- Delete extra files on remote destination(): ().
- Handle sparse files efficiently():

Remote Replication



Replication Options

- ☐ Enable encryption, port number:

(Note: You have to enable SSH connection on the remote host, and use the "admin" account to execute the encrypted replication job. Besides, the port number must be the same as the SSH port of the remote host.)
- ☐ Activate file compression
- ☐ Stop network file services while replicating
- ☐ Perform incremental replication
- ☐ Delete extra files on remote destination
- ☐ Handle sparse files efficiently

Step 6 of 7

BACK

NEXT

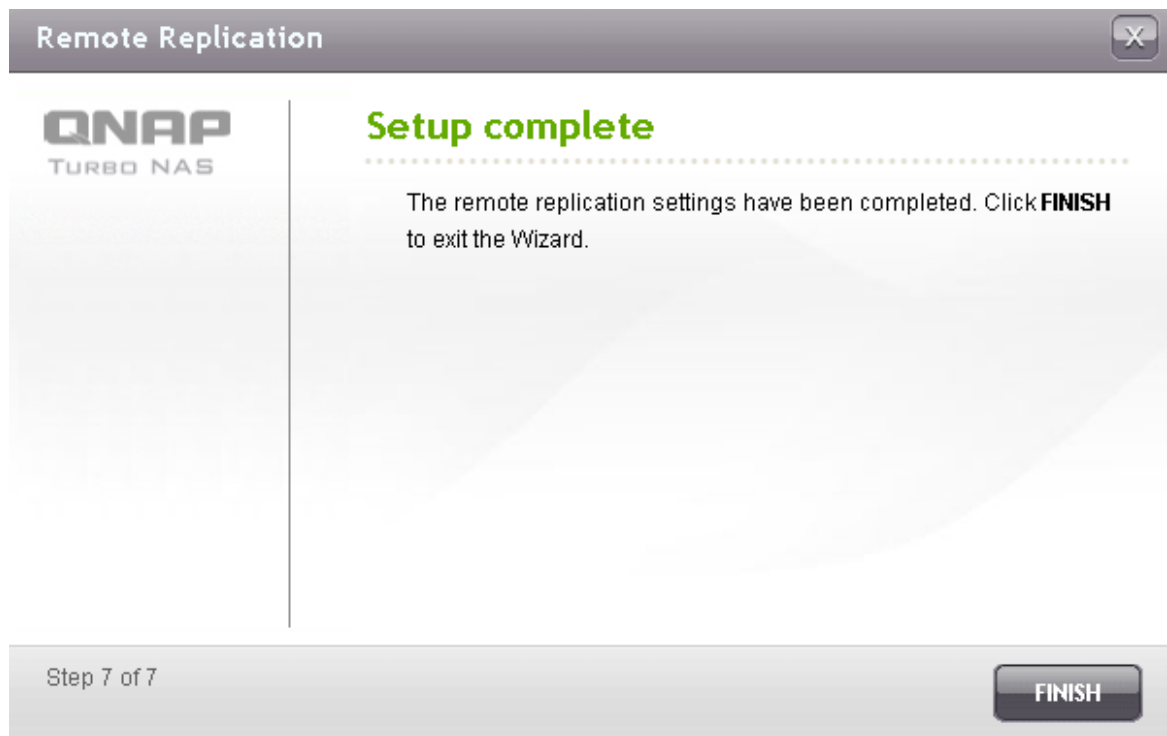
CANCEL

8.

“ ”

가

NAS



?

(, root) '/'
(root) 가

Share Folder Property

Share Folder Property

Network Share Name: root

Disk Volume: Mirroring Disk Volume: Drive 1 2

Hide Network Drive: Yes No

Lock file (oplocks): Yes No

Path: /

Comment (optional):

☐ Enable write-only access on FTP connection

Step 1 of 1

APPLY

CANCEL

Amazon S3

Amazon S3 (Simple Storage Service) AWS(Amazon Web Services)가

Amazon S3 , NAS Amazon S3 Amazon S3
NAS

http://aws.amazon.com/ AWS 가
Amazon S3 Amazon S3 () 가
Mozilla Firefox 가 'S3Fox '

Remote Replication

REMOTE REPLICATION

AMAZON S3

Amazon S3

This function allows you to upload the data from the NAS to Amazon S3, or vice versa.

Note: Please synchronize the system time with an Internet time server before using this function. To configure the system date and time, please click [here](#).

Current Jobs

Create New Replicating Job

Job Name	Usage Type	Schedule	Status	Action
----------	------------	----------	--------	--------

Amazon S3

NAS

Amazon S3

1. “ ”


2.

3. “ ” “ ”

Amazon S3

“ ”

Remote Replication



Amazon S3

Usage Type:

Access Key:

Private Key:

Remote Path (Bucket/Directory): /

Remote Host Testing:

Step 2 of 5

4. NAS

5.

6. “ ”

4.13.4 Time Machine

OS X

NAS

Mac

Time Machine

TIME MACHINE SUPPORT

MANAGE BACKUP

Time Machine support

After enabling the Time Machine function , you can use the NAS as one of the Mac OS X Time Machine backup destinations.

☒ Enable Time Machine support

Display Name: TMBackup

User Name: TimeMachine

Password:

Volume: Free Size:103GB

Capacity: GB

Note: When using the Time Machine function, AFP service will be enabled automatically. Note that all the Time Machine users share the same network share for this function.

APPLY

NAS :

1.

Time Machine

TIME MACHINE SUPPORT

MANAGE BACKUP

Time Machine support

After enabling the Time Machine function , you can use the NAS as one of the Mac OS X Time Machine backup destinations.

☒ Enable Time Machine support

Display Name: TMBBackup

User Name: TimeMachine

Password:

Volume:

Mirroring Disk Volume: Drive 1 2

 Free Size:103GB

Capacity: GB

Note: When using the Time Machine function, AFP service will be enabled automatically. Note that all the Time Machine users share the same network share for this function.

APPLY

2.

3. NAS

4.

5. “ ”

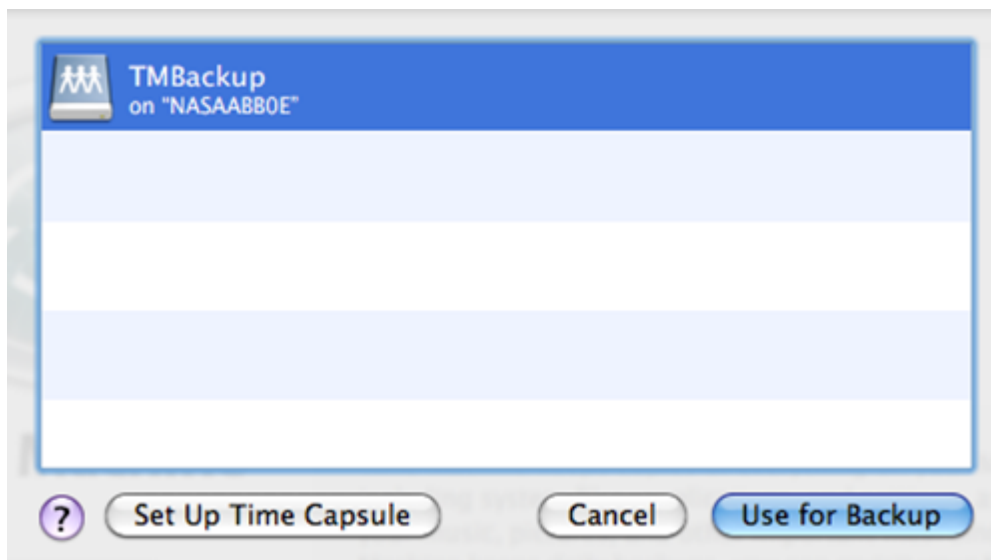
가

Mac

1. Mac “ ” .Disk !



2. NAS TMBBackup “ ” .

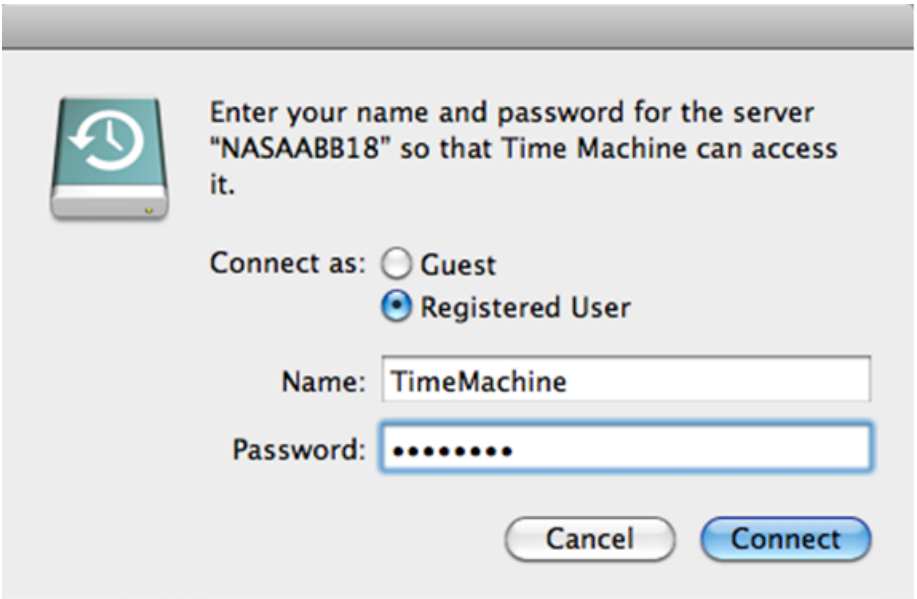


3. QNAP NAS

: TimeMachine

: NAS

.default.



4.

가

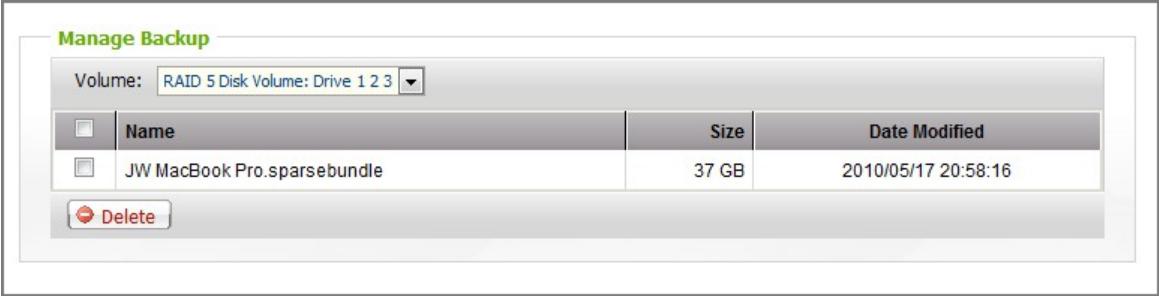
120



Mac

Mac OS

<http://www.apple.com/>



Volume(): Time Machine

Name(): Time Machine (Time Machine).

Size(): Time Machine

Date Modified(): Time Machine

Delete(): Time Machine

4.14

USB 279
UPS 280

4.14.1

NAS , 가 , USB 가 . USB NAS USB

NAS 가 USB 가 .

FAT32, NTFS, EXT3, EXT4 HFS+ (Mac) 'Format As()' 'FORMAT NOW()' .

가 .



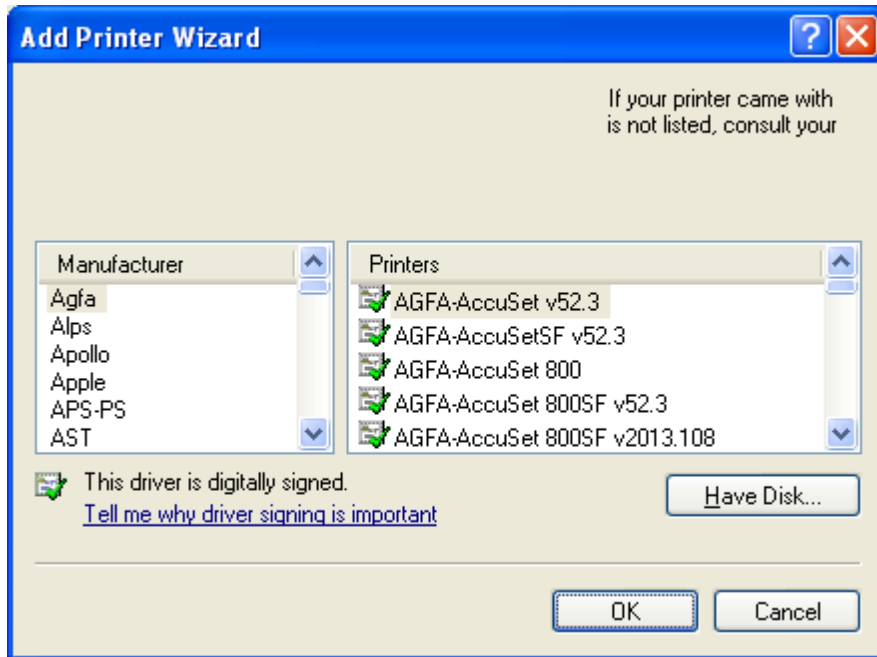
[illegible]

- :
- USB
- NAS USB
- USB <http://www.qnap.com/>

Windows XP

1

1. Windows \\NAS IP
- 2.
- 3.

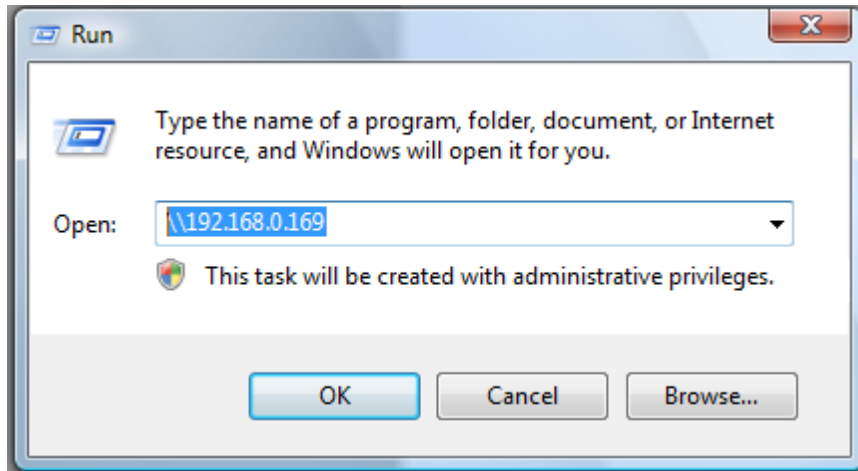


4. , NAS .NAS.

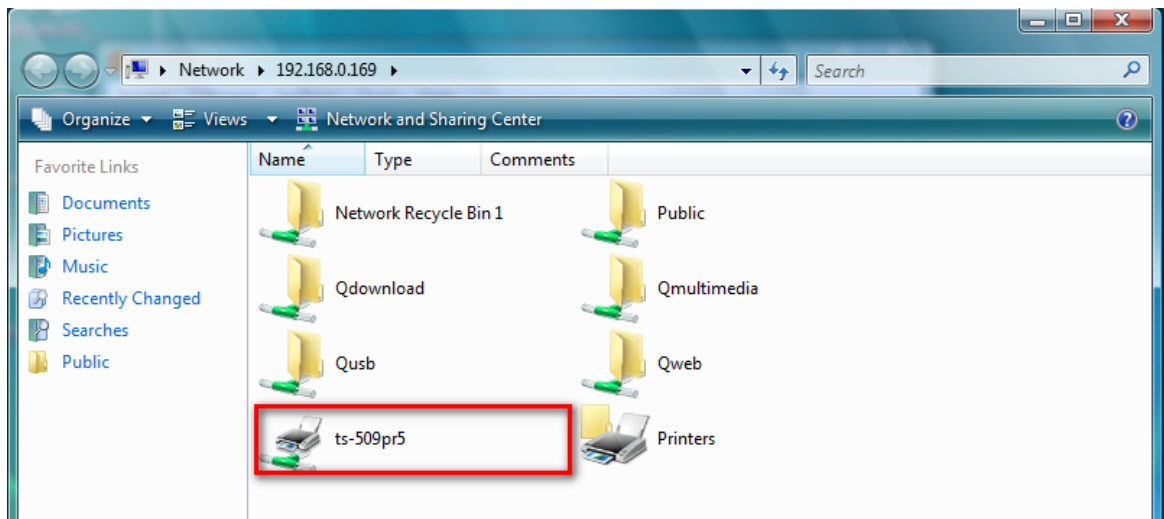
Windows XP

1. “ ”
2. 가
3. “ ”
4. “ ” 가
5. PC
- 6.
7. “ 가 ” “ ”
8. “ ” “ ”
9. “ ” “ ” “ ”
10. \\NAS IP\NAS pr : NAS IP= 192.168.1.1, NAS =
myNAS, \\192.168.1.1\myNASpr
- 11.
- 12.

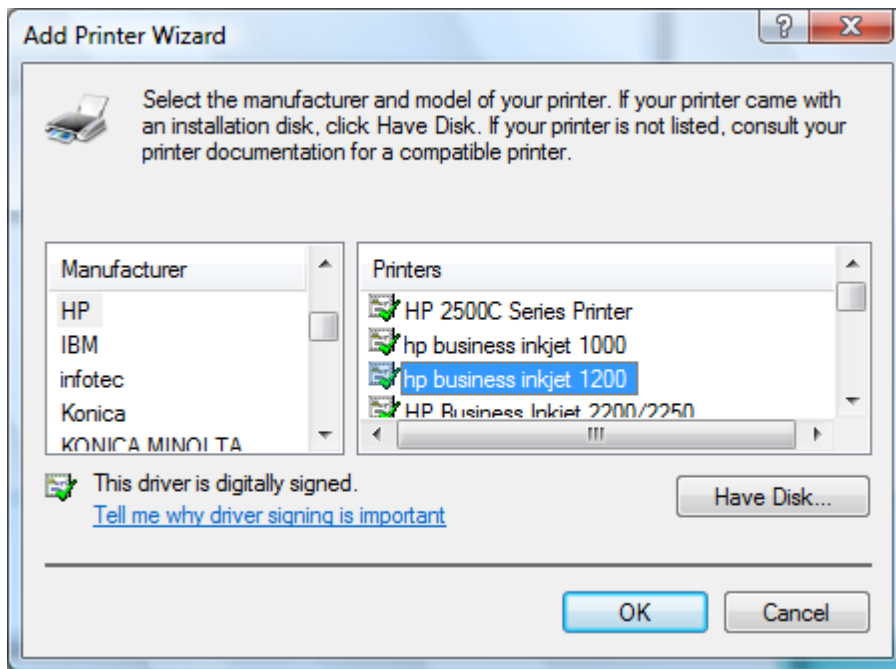
1. " " \\NAS IP .



- 2.



3.

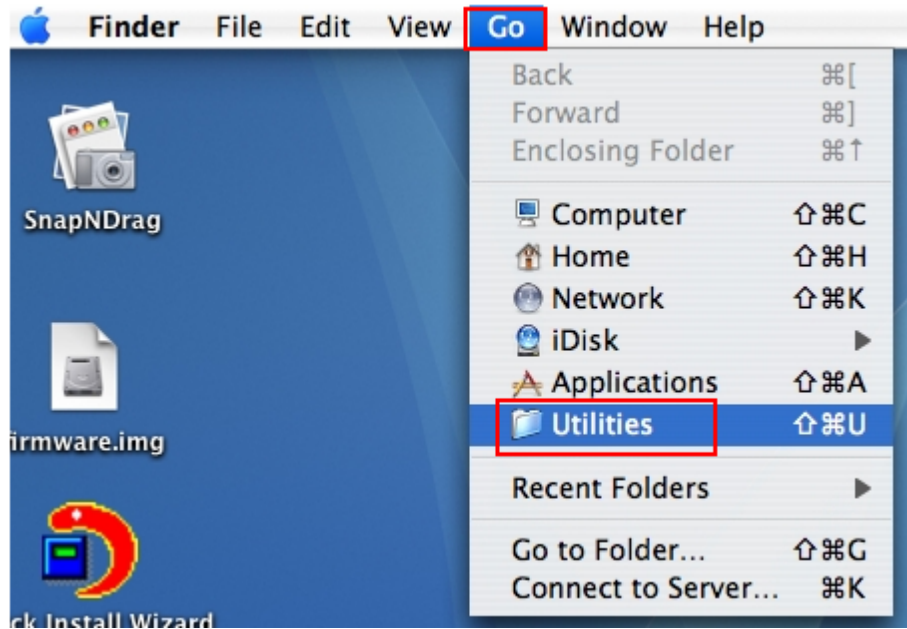


4.

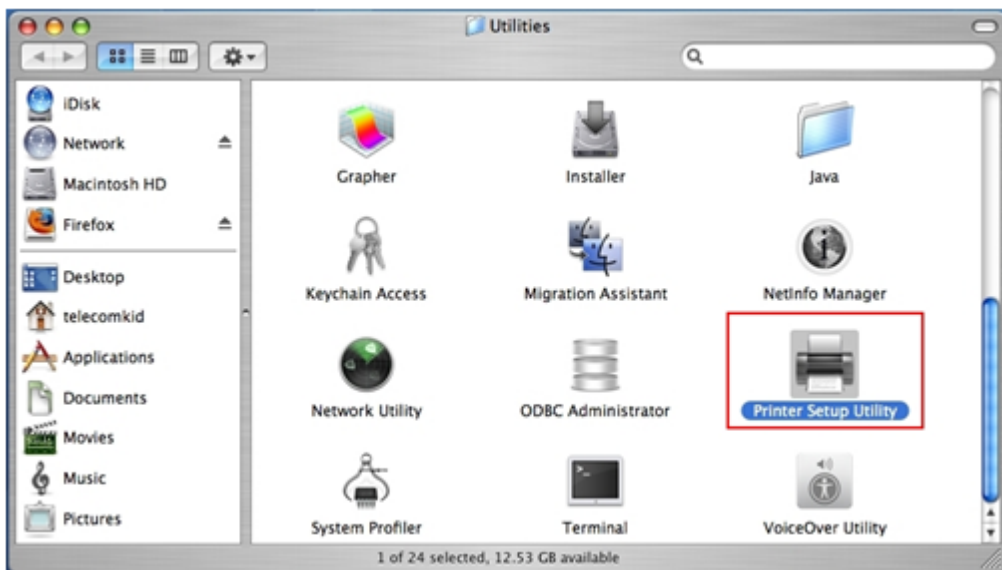
가

가

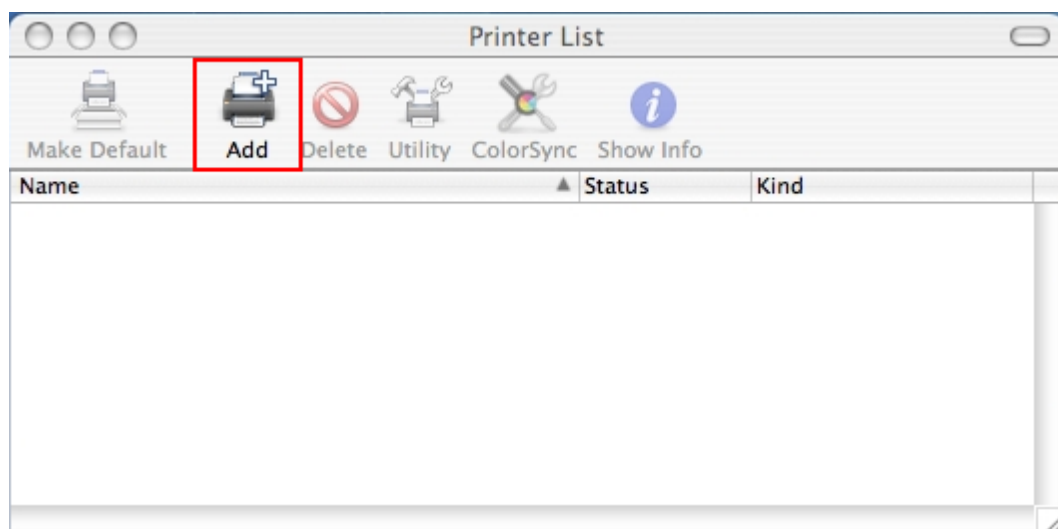
1. Go()/ Utilities()

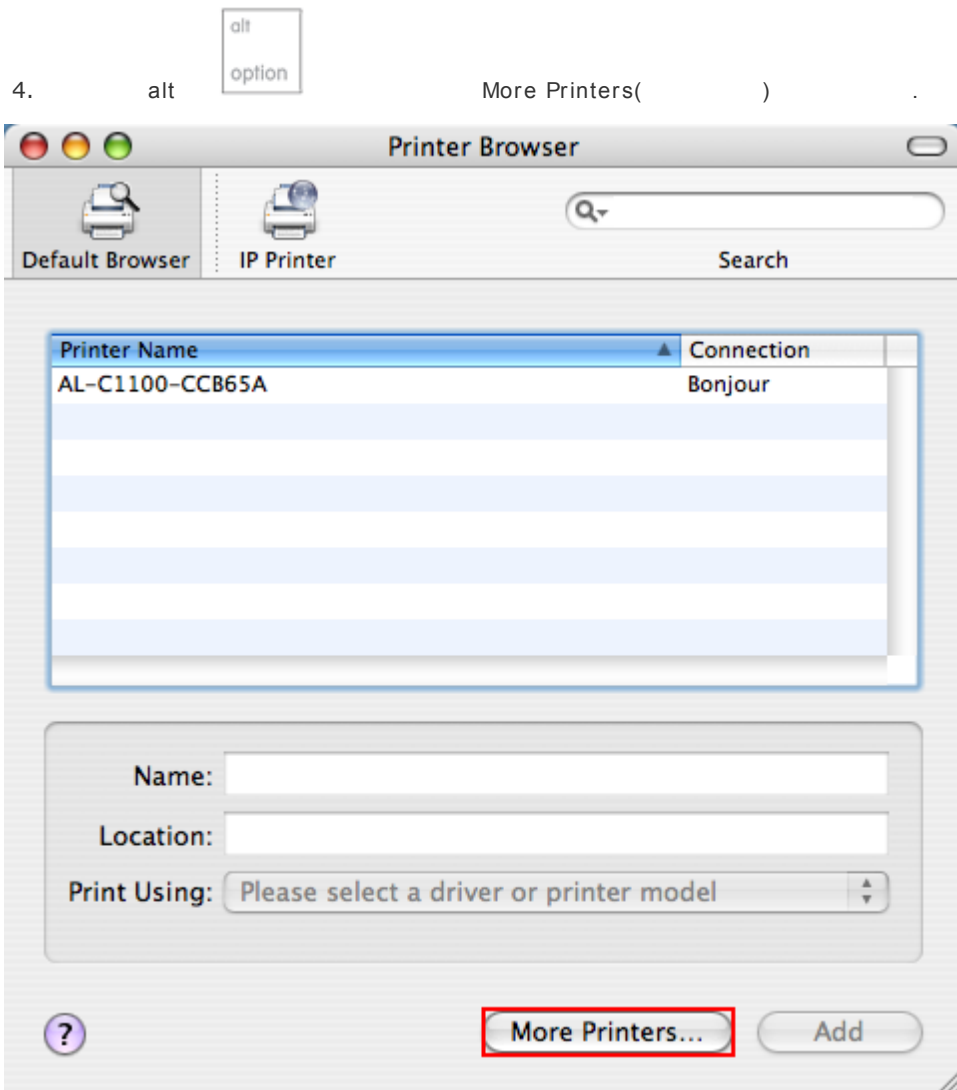


2. Printer Setup Utility()

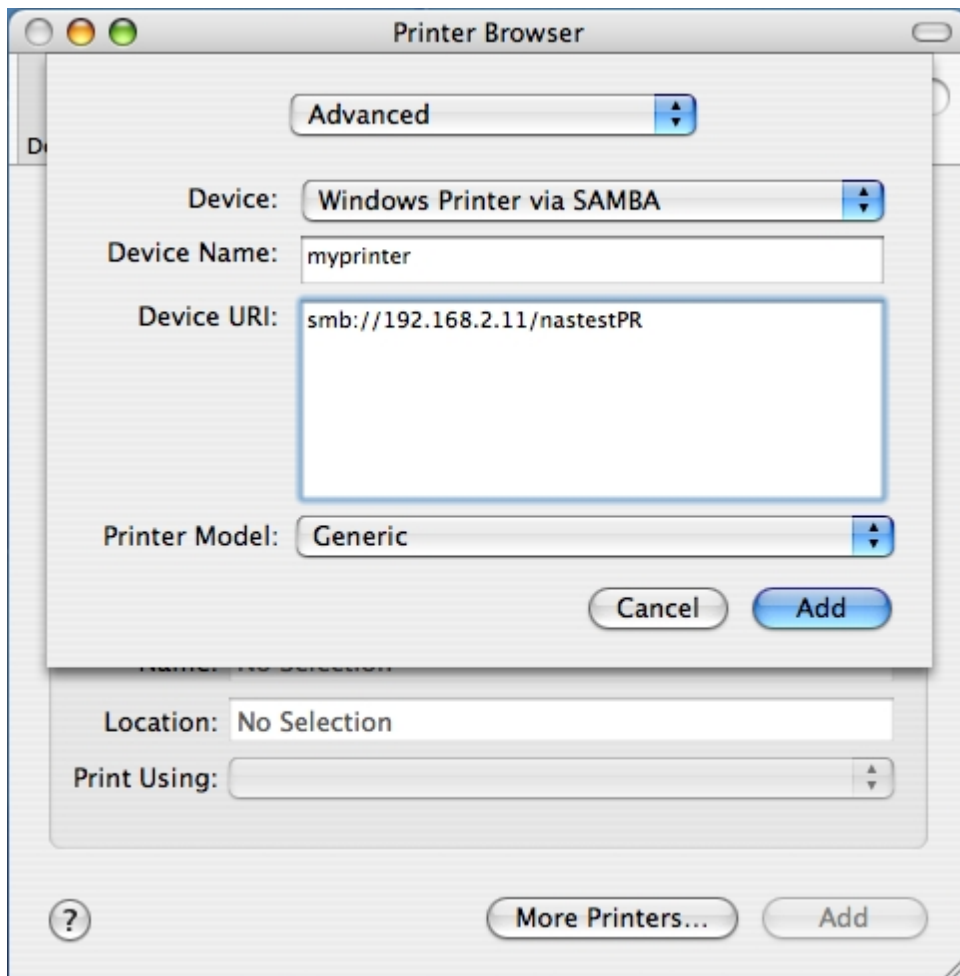


3. Add(추가)



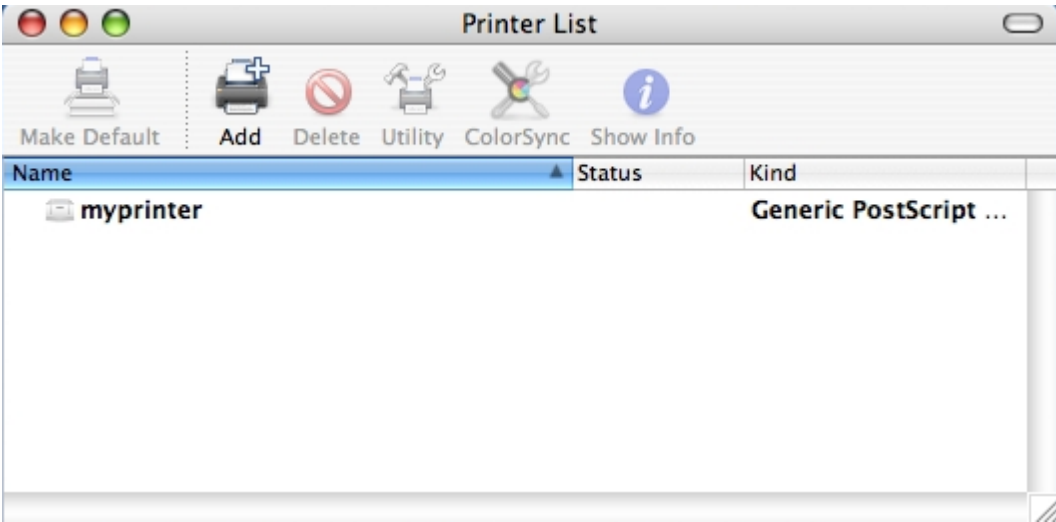


5. **Printer Browser** :
 - a. **Advanced**()
 - b. **Windows Printer via SAMBA**(SAMBA Windows)
 - c.
 - d. **URI** smb://NAS IP/ Device
Configuration()/ **USB Printer**(USB)
 - e. **Printer Model**() **Generic**()
 - f. **Add**(추가)



: alt More Printers()

6. 가 가 .



: NAS

Mac OS

Mac OS X 10.5

Mac OS X 10.5

NAS

1. 가 NAS 가 'USB ' "



2. “ ”> ‘Microsoft ’ . NAS
가

Home >> Network Services >> Microsoft Networking Welcome admin | Logout English

Microsoft Networking

MICROSOFT NETWORKING ADVANCED OPTIONS

Microsoft Networking

☒ Enable file service for Microsoft networking

☒ Standalone Server

Server Description (Optional):

Workgroup:

☐ AD Domain Member (For detailed instructions, please [click here](#))

Server Description (Optional):

Domain NetBIOS Name:

AD Server Name:

Domain:

Organization Unit (Optional):

Domain Administrator Username:

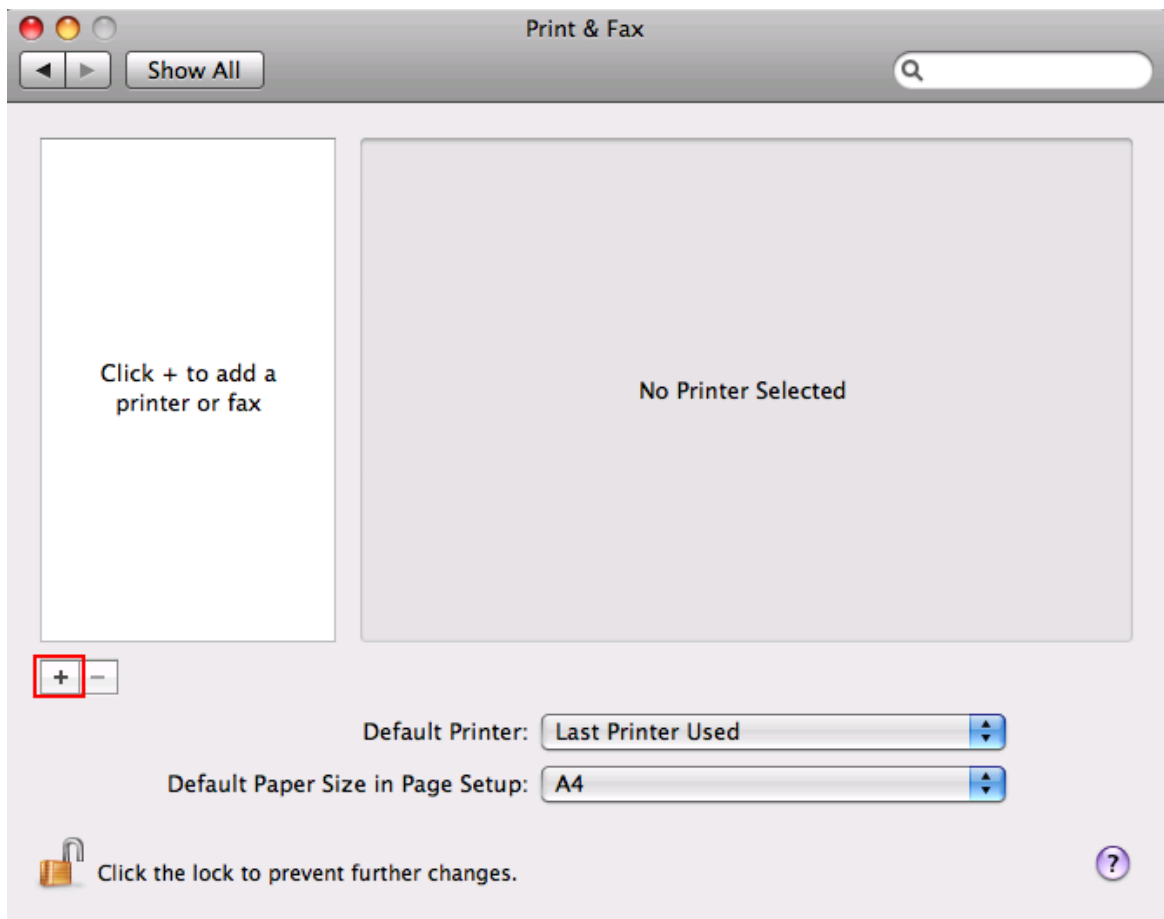
Domain Administrator Password:

APPLY

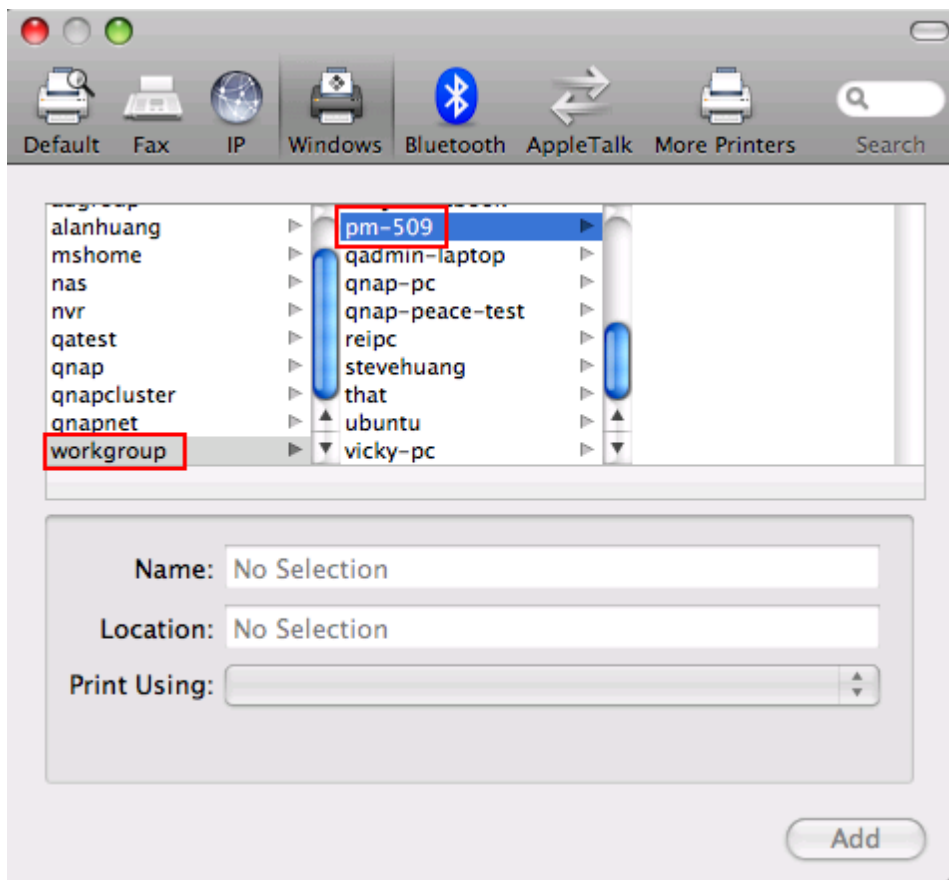
3. Mac “ ” .



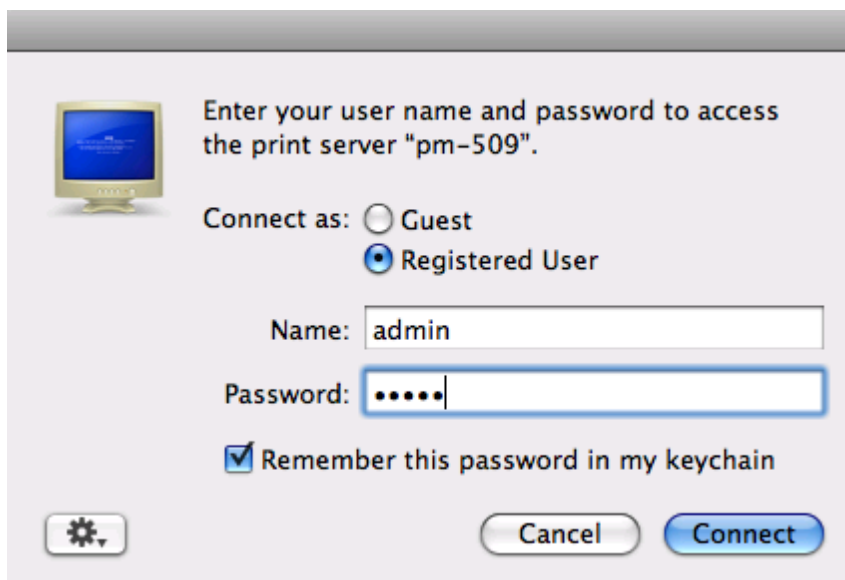
4. + 가 .



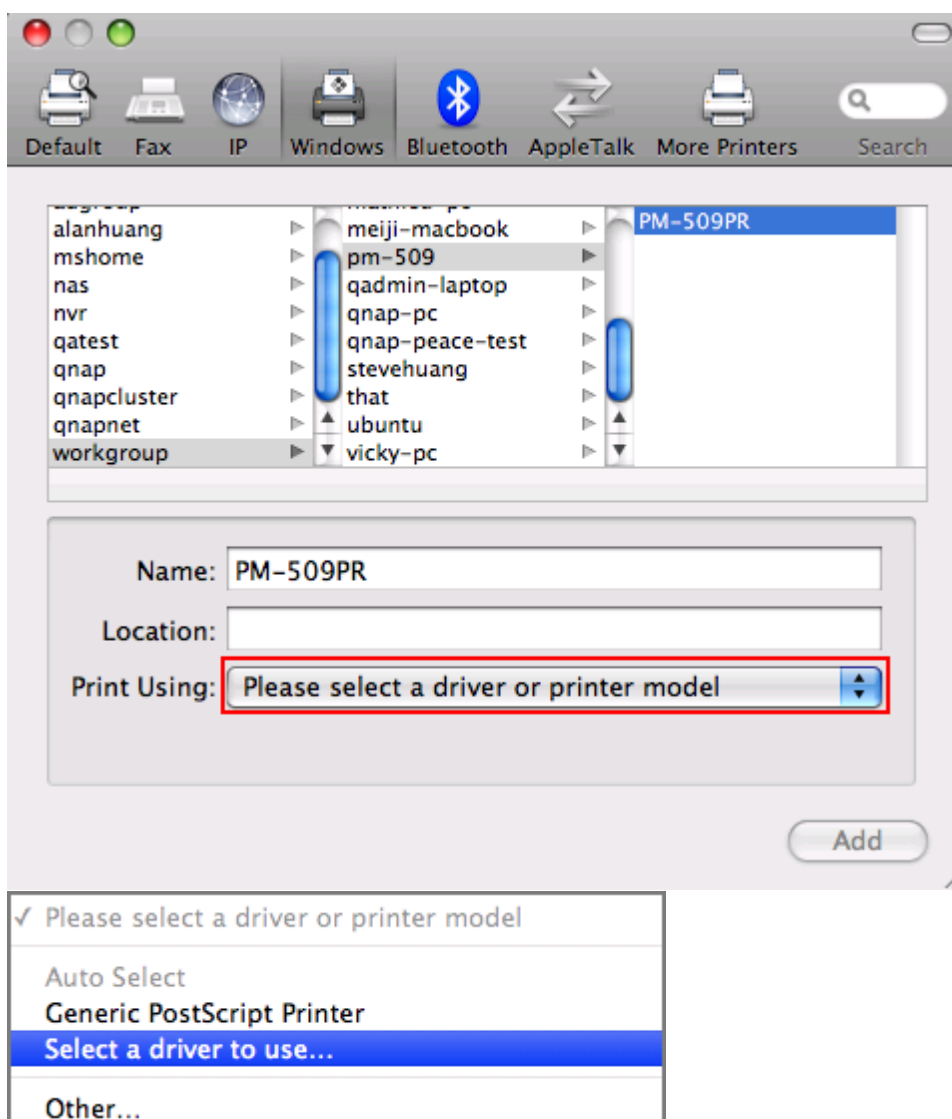
5. NAS



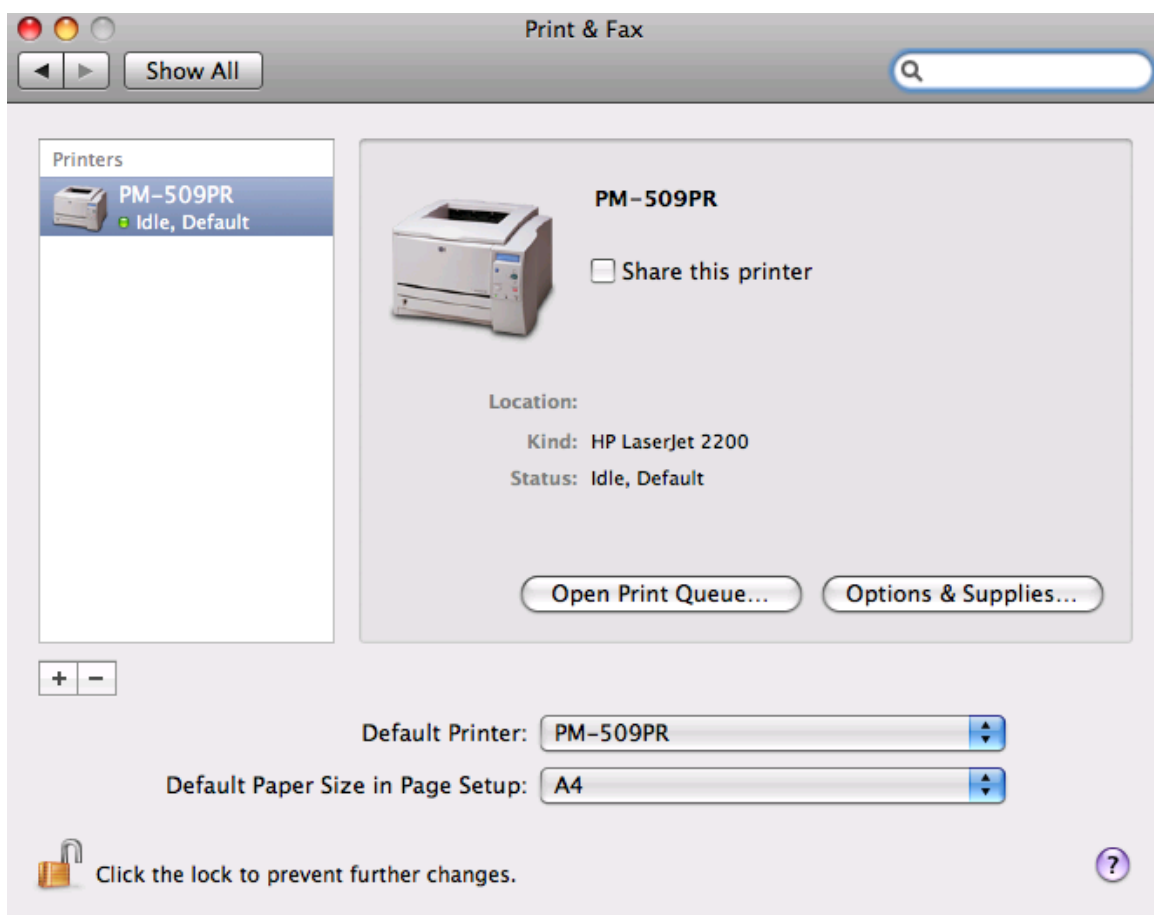
6. NAS



7.



8.



4.14.3 UPS

UPS () NAS NAS UPS

UPS Settings

UPS Settings

☒ Enable UPS Support

☒ After the AC power fails for 5 minute(s), turn off the server.

☐ After the AC power fails for 2 minute(s), the system will enter the 'auto-protection' mode. When the power restores, the system automatically resumes to its previous state.

ProtocolNetwork UPS Slave

IP Address of Network UPS Server:0.0.0.0

UPS Information

UPS Brand:--

UPS Model:--

AC Power Status:--

Battery Capacity:--

Estimated Protection Time:--

APPLY

- USB

USB : .

1. USB UPS NAS .
2. 'Enable UPS Support (UPS)' .
3. AC NAS가 NAS가 . NAS가 가
4. 'Apply()' .

- SNMP

SNMP : .

1. NAS가 SNMP- UPS .
2. 'Enable UPS Support (UPS)' .
3. AC NAS가 NAS가 . NAS가 가
4. 'Protocol()' 'SNMP' .
5. SNMP- UPS IP .
6. 'Apply()' .

UPS : NAS UPS USB UPS NAS

1. NAS가 UPS
2. 'Enable UPS Support (UPS)'
3. AC NAS가 NAS가 NAS가 NAS가
4. Enable network UPS master(UPS)' USB
5. UPS IP
6. Apply()' NAS

UPS UPS UPS NAS

1. NAS가 UPS
2. 'Enable UPS Support (UPS)'
3. AC NAS가 NAS가 NAS가 NAS가
4. 'Protocol()' 'USB slave mode(USB)'
5. UPS IP
6. 'Apply()'

: NAS IP UPS 가 SNMP QNAP NAS , UPS

Home >> System Administration >> Power ManagementWelcome admin | LogoutEnglish

Power Management

Restart/ Shutdown

Execute system restart/ shutdown immediately.

RESTARTSHUTDOWN

Configure Wake on LAN

☐ Enable☒ Disable

When the AC power resumes:

☒ Resume the server to the previous power-on or power-off status.☐ Turn on the server automatically.☐ The server should remain off.

Set power on/ power off/ restart schedule

☐ Enable schedule

☐ Postpone the restart/shutdown schedule when a replication job is in progress.

ShutdownDaily70+ -

APPLY

4.15

- 301
- 302
- 303

4.15.1

NAS CPU , , .

System Information

System Information

Server Name	NAS8CBC6C
Firmware Version	3.3.0 Build 0511T
System Up Time	0 Day 5 Hour 4 Minute(s)
Serial Number	--

Port Status

Port No.	Port Status	IP Address	MAC Address	Packets Received	Packets Sent	Error Packets
Ethernet 1	Up	10.8.12.46	00:08:9b:8c:bc:6c	4632495	6226069	0
Ethernet 2	Up	10.8.12.46	00:08:9b:8c:bc:6d	4558312	6220406	0

Hardware Information

CPU Usage	24.2 %
Total Memory	1007.8 MB
Free Memory	821.1 MB
CPU Temperature	50°C/122°F
System Temperature	45°C/113°F
HDD 1 Temperature	38°C/100°F
HDD 2 Temperature	35°C/95°F
System Fan Speed	1147

System Service

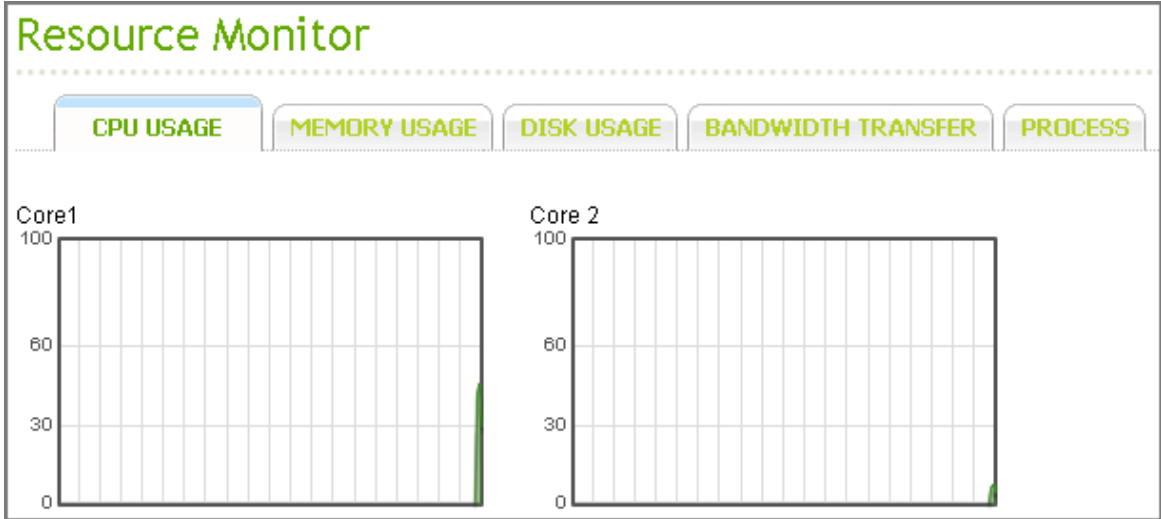
System Service

Microsoft Networking		Multimedia Station	
Enabled	<input checked="" type="checkbox"/>	Enable Multimedia Station	<input checked="" type="checkbox"/>
Server Type	Standalone Server	Enable iTunes Service	<input type="checkbox"/>
Workgroup	NAS	Enable UPnP Media Server	<input type="checkbox"/>
Enable WINS server	<input type="checkbox"/>	Download Station	
Enable Local Master Browser	<input checked="" type="checkbox"/>	Enabled	<input checked="" type="checkbox"/>
Apple Networking		Web Server	
Enabled	<input type="checkbox"/>	Enabled	<input checked="" type="checkbox"/>
Apple Zone Name	*	Port	80
Unix/Linux NFS		register_globals	<input type="checkbox"/>
Enabled	<input type="checkbox"/>	DDNS Service	
Web File Manager		Enabled	<input type="checkbox"/>
Enabled	<input checked="" type="checkbox"/>	MySQL Server	
FTP Service		Enabled	<input type="checkbox"/>
Enabled	<input checked="" type="checkbox"/>	Enable TCP/IP Networking	<input type="checkbox"/>
Port	21	Surveillance Station	
Maximum Connections	30	Enabled	<input type="checkbox"/>
System Port Management			
Port	8080		

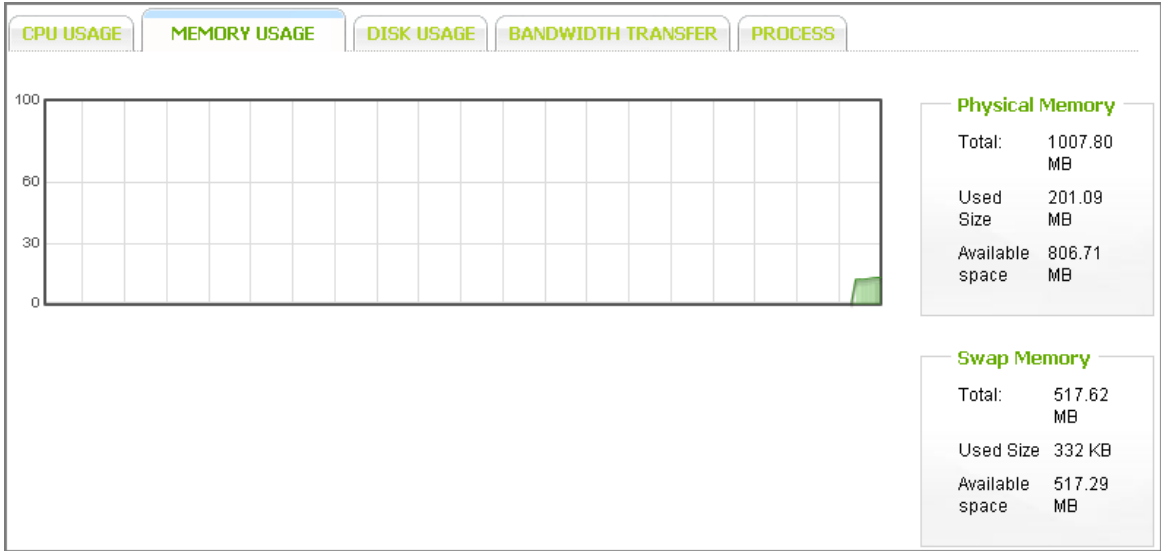
4.15.3

NAS CPU , , .this page.

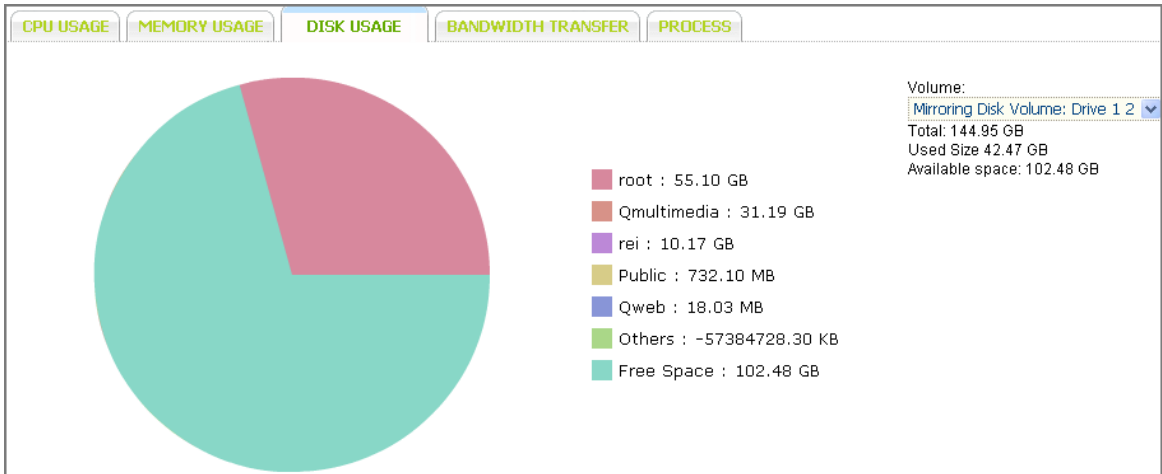
CPU usage(CPU): NAS CPU .



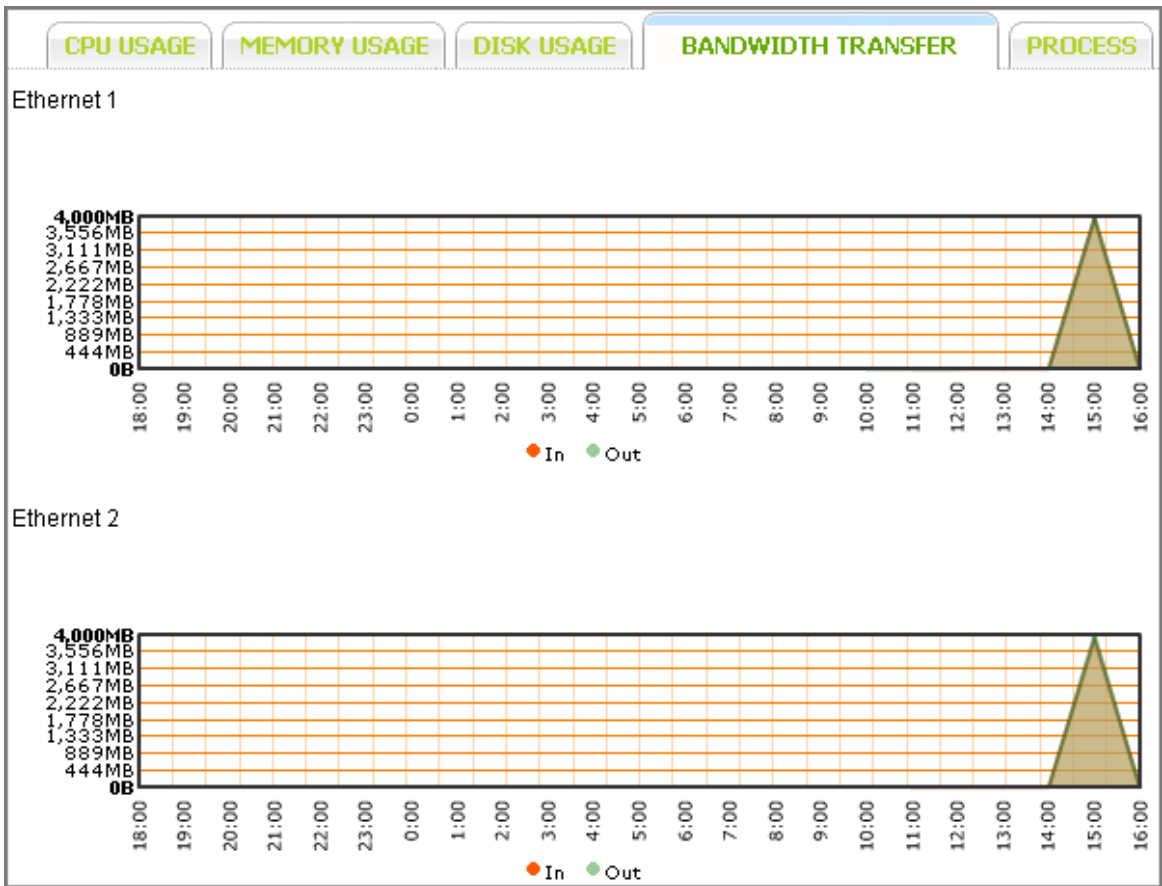
Memory usage(): NAS .



Disk Usage():



Bandwidth transfer(): NAS 가 LAN



Process(): NAS

CPU USAGE	MEMORY USAGE	DISK USAGE	BANDWIDTH TRANSFER	PROCESS
Process Name	Users	PID	CPU Usage	Memory
smbd	admin	11566	17.4%	5900 K
kcryptd	admin	2397	12.6%	0 K
top	admin	14495	2.9%	824 K
bcclient	admin	4667	0.9%	1088 K
simple_client	admin	17346	0.9%	3668 K
init	admin	1	0	464 K
daemon_mgr	admin	1404	0	776 K
hotswap	admin	1418	0	852 K
q/Vatcodogd: keeping alive ever	admin	1576	0	468 K
modagent	admin	1979	0	396 K
qsmartd	admin	2475	0	704 K
dhcpcd	admin	3150	0	204 K
mDNSResponderPosix	admin	3246	0	548 K
upnpd	admin	3374	0	1304 K
thttpd	admin	3537	0	1560 K

5. QNAP NAS Windows Server 2003/ 2008 Active Directory

Active Directory Windows , ,
Microsoft . , ,
.

NAS AD (Active Directory) . NAS Active Directory NAS가 AD
가 . AD NAS

QNAP NAS Windows Active Directory .

1. NAS . 'System Administration "() > 'General Settings "()
> 'Date and Time "() . NAS AD
5 .

2. "System Administration "() > "Network "() > "TCP/IP " . DNS
IP Active Directory IP .

Home >> System Administration >> Network Welcome admin | Logout English

IP Address

Interface	DHCP	IP Address	Subnet Mask	Gateway	MAC Address	Speed	MTU	Link	Edit
Ethernet 1+2	Yes	10.8.12.46	255.255.254.0	10.8.12.1	00:08:9B:8C:BC:6C	100Mbps	1500		

Default Gateway

Use the settings from: Ethernet 1+2

Port Trunking

Port Trunking provides network load balancing and fault tolerance by combining two Ethernet interfaces into one to increase the bandwidth beyond the limits of any one single interface at the same time offers the redundancy for higher availability when both interfaces are connected to the same switch that supports 'Port Trunking'.

☒ Enable Network Port Trunking

Select the port trunking mode from below. Please note that incompatible mode settings might cause the network interface to hang or affect the overall performance. For more information, please click [here](#).

Balance-rr (Round-Robin)

DNS Server:

Primary DNS Server: 10 .8 .2 .11

Secondary DNS Server: 10 .8 .2 .9

3. 'Network Services' () > 'Microsoft Networking' (Microsoft)
 AD AD .information.

Home >> Network Services >> Microsoft Networking Welcome admin | Logout English

Microsoft Networking

MICROSOFT NETWORKING **ADVANCED OPTIONS**

Microsoft Networking

☒ Enable file service for Microsoft networking

☐ Standalone Server

Server Description (Optional):

Workgroup:

☒ AD Domain Member (For detailed instructions, please [click here](#))

Server Description (Optional):

Domain NetBIOS Name:

AD Server Name:

Domain:

Organization Unit (Optional):

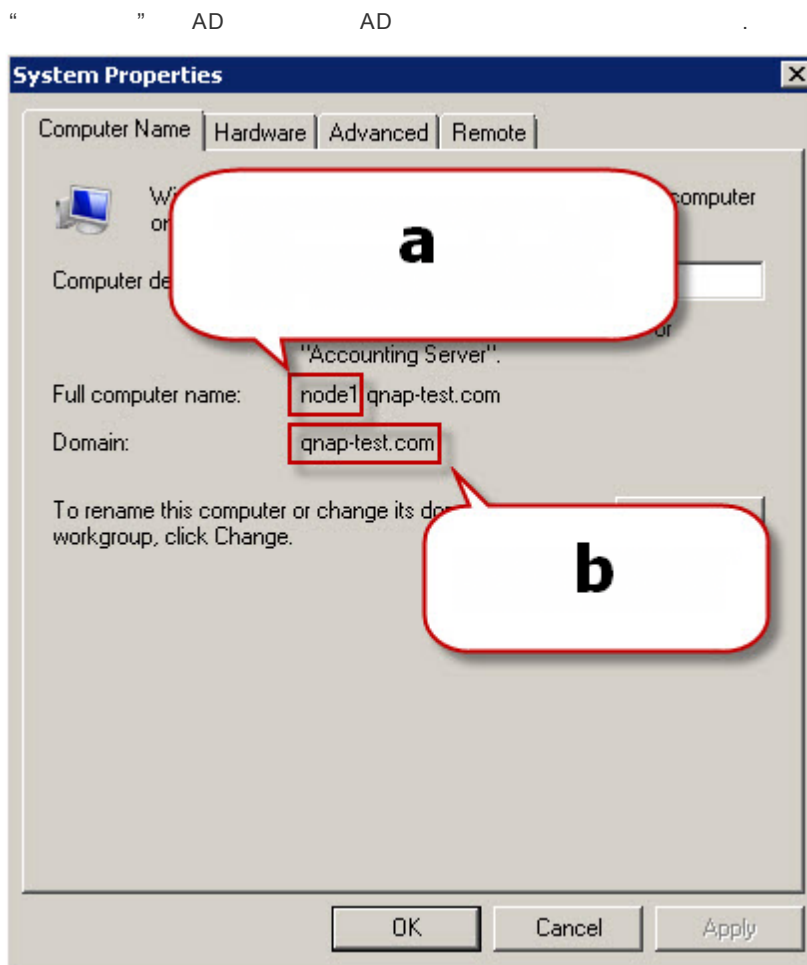
Domain Administrator Username:

Domain Administrator Password:

APPLY

- :
- AD (: qnap-test.com)
 - AD AD 가
 - ! " 가 , NAS가AD

Windows 2003



a. Windows 2003

AD

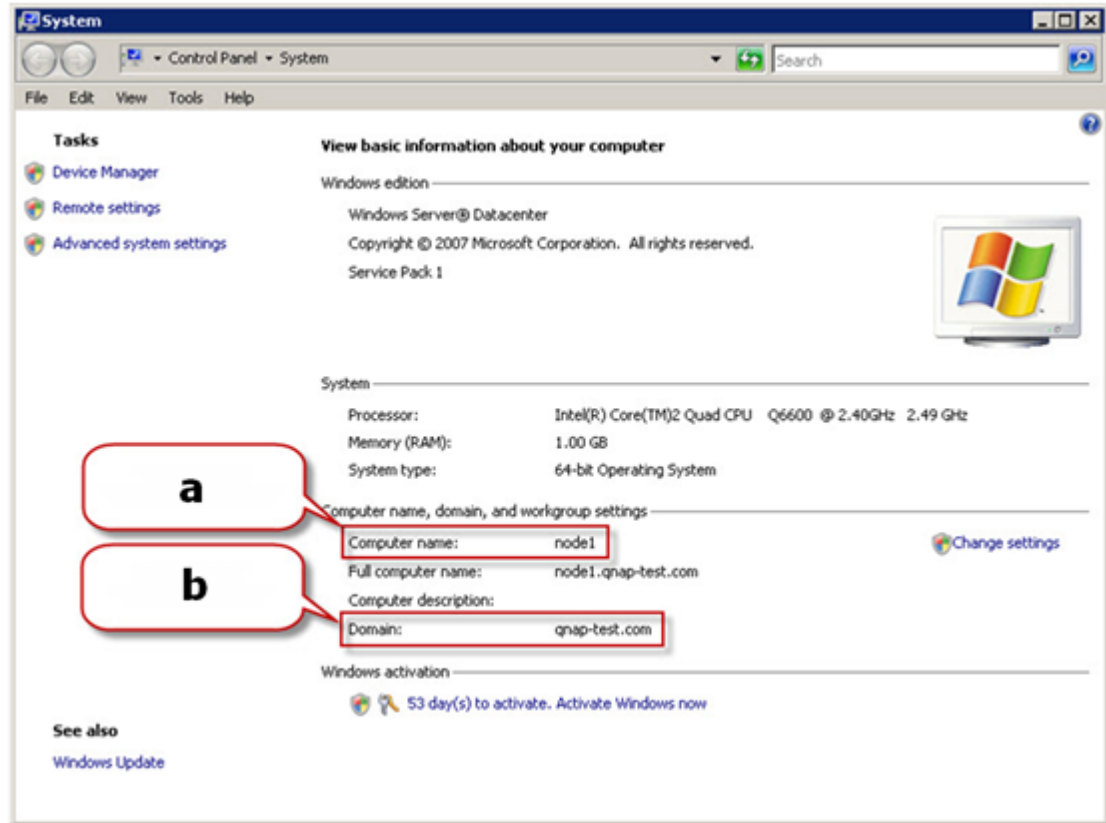
"node1.qnap-test.com "

"node 1 "

b.

Windows Server 2008

“ ”> “ ” AD



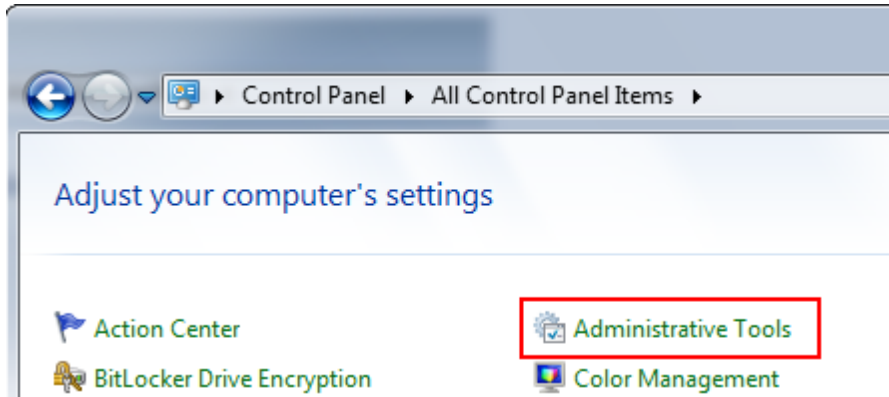
- a. “AD”
- b. “ ”

- NAS Active Directory , AD
“NASname\username”(NAS \) . AD
AD
- NAS AD (+) AFP, FTP,
, WebDAV NAS (3.2.0) , NAS
3.2.0 NAS WebDAV NAS
- TS-109/209/409/509 Turbo NAS , AD Windows 2008 Server
NAS 2.1.2

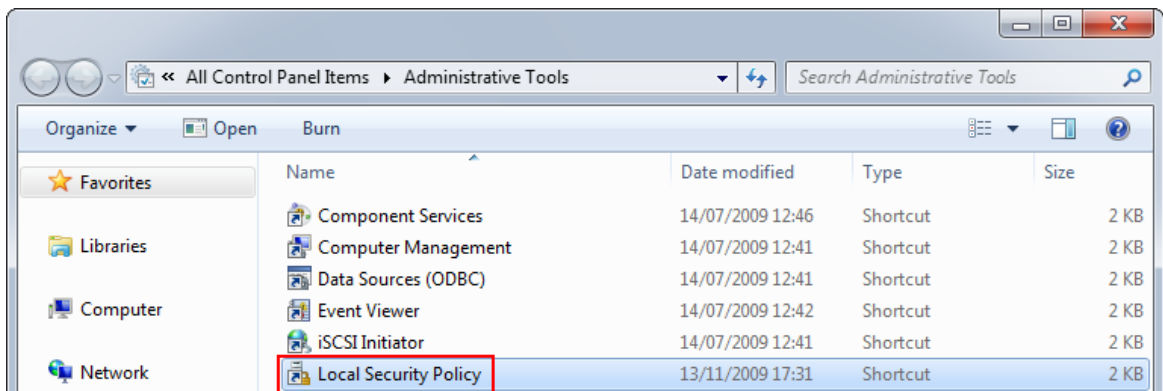
Windows 7

Active Directory v3.2.0 가 Windows 7 PC , PC NAS가 AD PC가 NAS 가

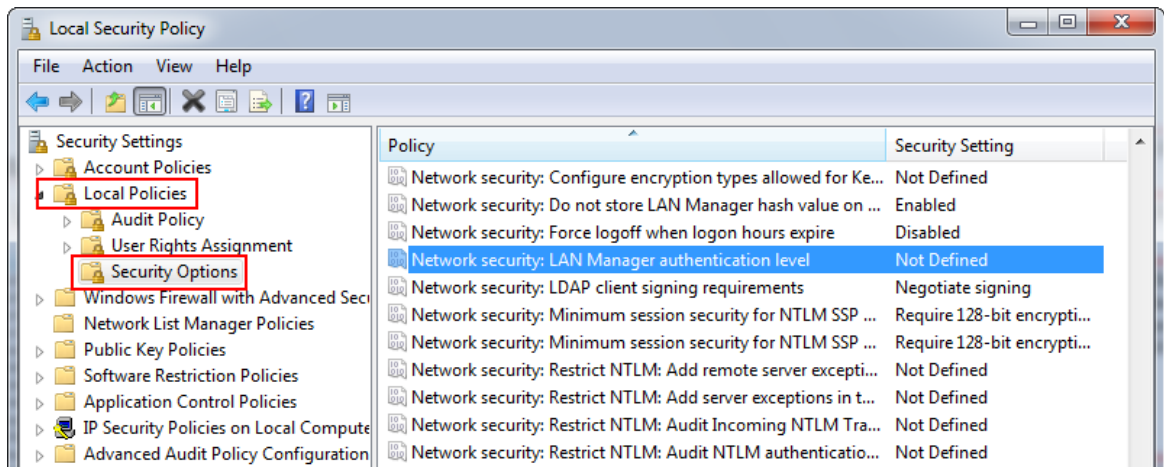
- a. 'Control Panel '() 가 'Administrative Tools '()



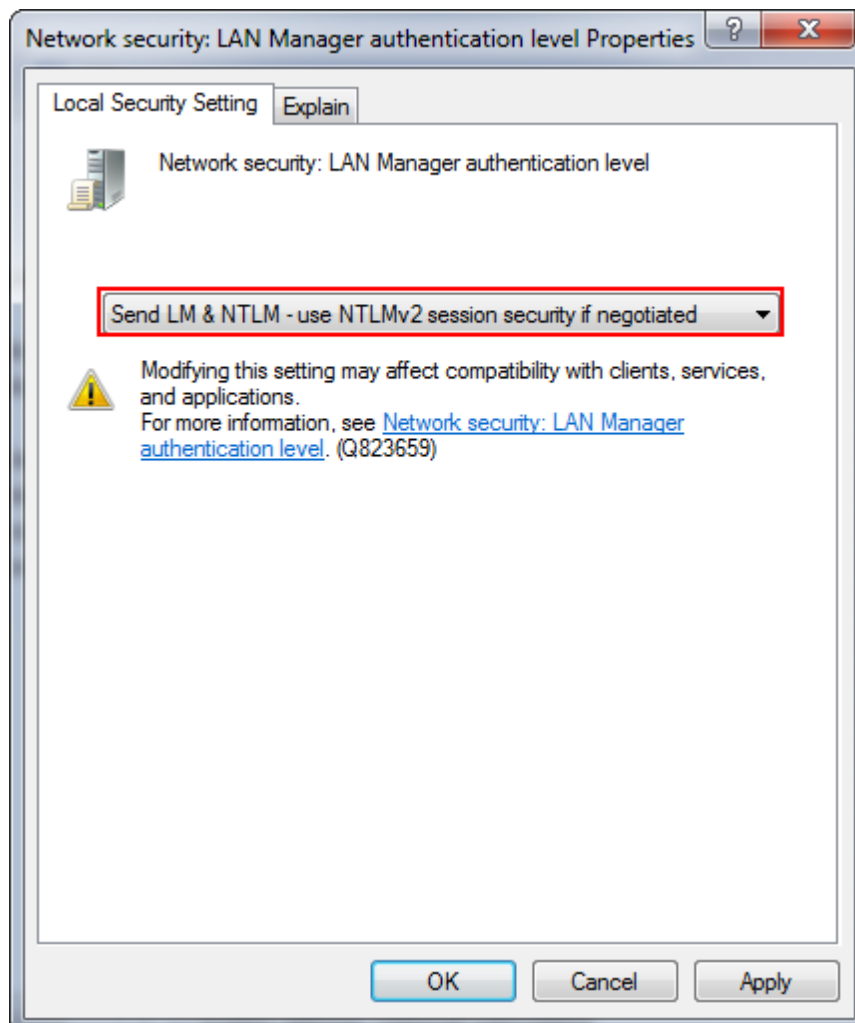
- b. Local Security Policy "()



- c. 'Local Policies' () > 'Security Options' () 가 'Network security: LAN Manager authentication level' (: LAN Manager)



- d. 'Local Security Setting "() 'Send LM & NTLMv2 – use NTLMv2 session security if negotiated "(LM NTLMv2 – NTLMv2) 'OK "() .



NAS | Active Directory , 'Access Right Management ()' > 'Users ()' 'User Groups ()' 'Domain Users ()' 'Domain Groups ()' . 'Access Right Management ()' > 'Users ()' 'Domain Users ()' 'Access Right Management ()' > 'User Groups ()' 'Domain Groups ()' . Active Directory NAS



6. LCD

TS- 439 Pro, TS- 439 Pro II, TS- 459 Pro, TS- 509 Pro, TS- 559 Pro, TS- 639 Pro, TS- 659 Pro, SS- 839 Pro, TS- 859 Pro, TS- 809 Pro, TS- 809U- RP, TS- 859U- RP

NAS LCD

NAS가 IP :

N	A	S	5	F	4	D	E	3						
1	6	9	.	2	5	4	.	1	0	0	.	1	0	0

LCD IP

		가 *
1		
2	RAID 1	- > JBOD - >RAID 0 - > RAID 1
3	RAID 5	- > JBOD - > RAID 0 - > RAID 5
4	RAID 5	- >JBOD - > RAID 0 - > RAID 5 - > RAID 6

* "Select "() "Enter "()

, 5 가 NAS LCD :

C	o	n	f	i	g	.		D	i	s	k	s	?		
→	R	A	I	D	5										

“Select”() RAID 6 가
 “Select”() 가 . “Select”() “ ”
 . “Select”()

C	h	o	o	s	e		R	A	I	D	5	?			
→	Y	e	s			N	o								

RAID 1, RAID 5 RAID 6 , , RAID
 , RAID , NAS LCD , 100%
 RAID NAS
 , RAID NAS RAID
 , “Disk Management”() > “Volume Management”()
 . 30- 60 MB/s (,).

: RAID 가 RAID 가 가 .
“Volume Management”() 가 .

* LCD

E	n	c	r	y	p	t		V	o	l	u	m	e	?	
→	Y	e	s			N	o								

가 IP 가 . NAS가
 가 .

C	r	e	a	t	i	n	g	.	.	.					
R	A	I	D	5		F	a	i	l	e	d				

* TS- 110, TS- 119, TS- 210, TS- 219, TS- 219P, TS- 410, TS- 419P, TS- 410U, TS- 419U

가

LCD

LCD IP 가 “Enter”() Main Menu .
Main Menu :

1. TCP/IP
2. Physical disk
3. Volume
4. System
5. Shut down
6. Reboot
7. Password
8. Back

TCP / IP

TCP/ IP :

1. LAN IP Address
2. LAN Subnet Mask
3. LAN Gateway
4. LAN PRI. DNS
5. LAN SEC. DNS
6. Enter Network Settings
 - Network Settings – DHCP
 - Network Settings – Static IP*
 - Network Settings – BACK
7. Back to Main Menu

* Network Settings – Static IP IP , , , LAN 1 LAN 2 DNS .

Physical disk

Physical disk :

- 1. Disk Info
- 2. Back to Main Menu

D	i	s	k	:	1		T	e	m	p	:	5	0	°	C
S	i	z	e	:		2	3	2		G	B				

Volume

NAS

RAID

R	A	I	D	5						7	5	0	G	B
D	r	i	v	e		1	2	3	4					

'Select '()

RAID 5

LCD

L C D	
RAID5+S	RAID5+
RAID5 (D)	RAID 5
RAID 5 (B)	RAID 5
RAID 5 (S)	RAID 5
RAID 5 (U)	RAID가
RAID 5 (X)	RAID 5

System

C	P	U		T	e	m	p	:		5	0	°	C		
S	y	s		T	e	m	p	:		5	5	°	C		

S	y	s		F	a	n	:	8	6	5	R	P	M		

Shut down

NAS . 'Select' () “ ” , 'Enter' ()

Reboot

NAS . 'Select' () “ ” ,
'Enter' ()

Password

LCD

C	h	a	n	g	e		P	a	s	s	w	o	r	d	
				Y	e	s	→	N	o						

8 (0 9) 가 “ ” 'Enter' ()

N	e	w		P	a	s	s	w	o	r	d	:			
													O	K	

Back

가

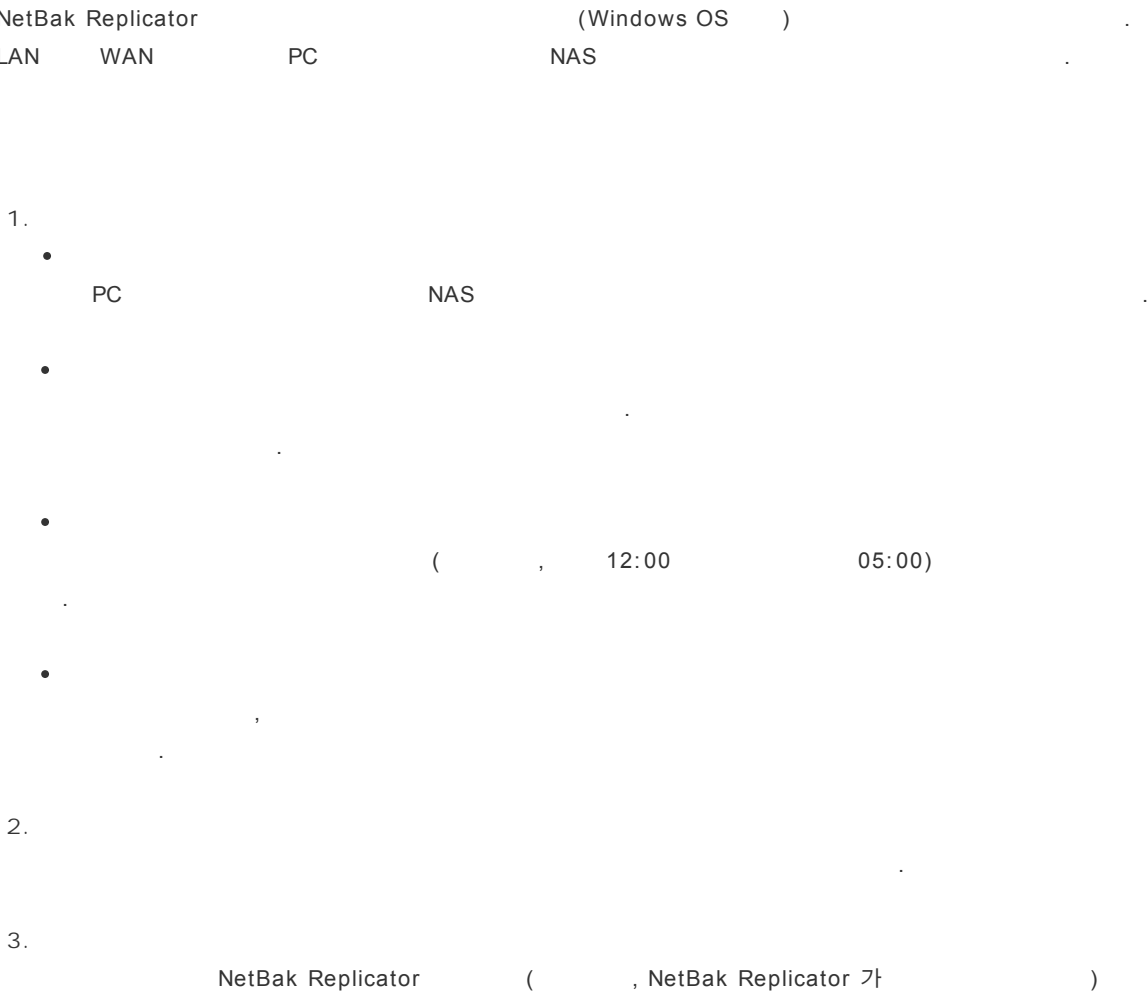
NAS 가 가 LCD . “ ”

“ ”

S	y	s	t	e	m		E	r	r	o	r	!		
P	l	s	.		C	h	e	c	k		L	o	g	s

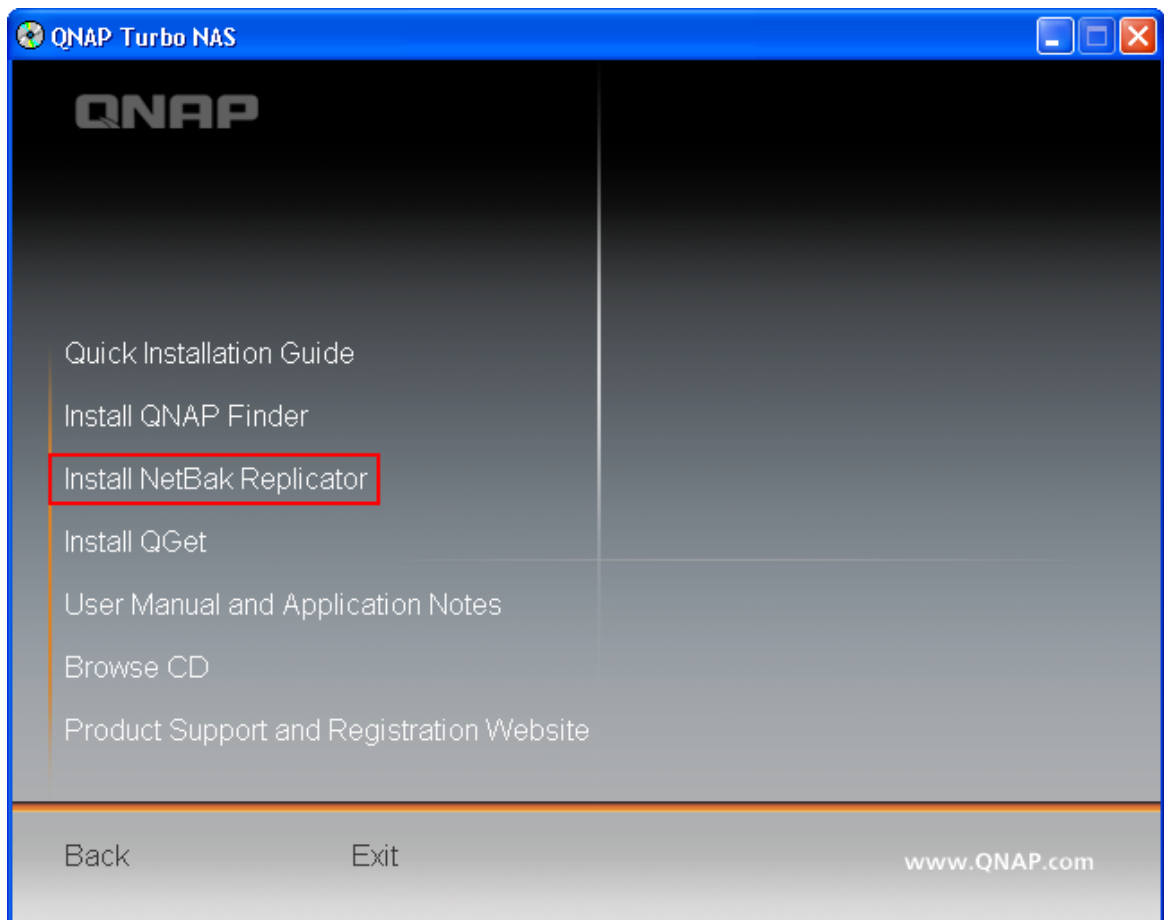
Sys. Fan Failed	
Sys. Overheat	
HDD Overheat	
CPU Overheat	CPU
Network Lost	LAN 1, LAN 2
LAN1 Lost	LAN 1
LAN2 Lost	LAN 2
HDD Failure	
Vol1 Full	
HDD Ejected	가
Vol1 Degraded	
Vol1 Unmounted	
Vol1 Nonactivate	

7. NetBak Replicator



NetBak Replicator

1. NAS CD-ROM NetBak Replicator "



2. NetBak Replicator .



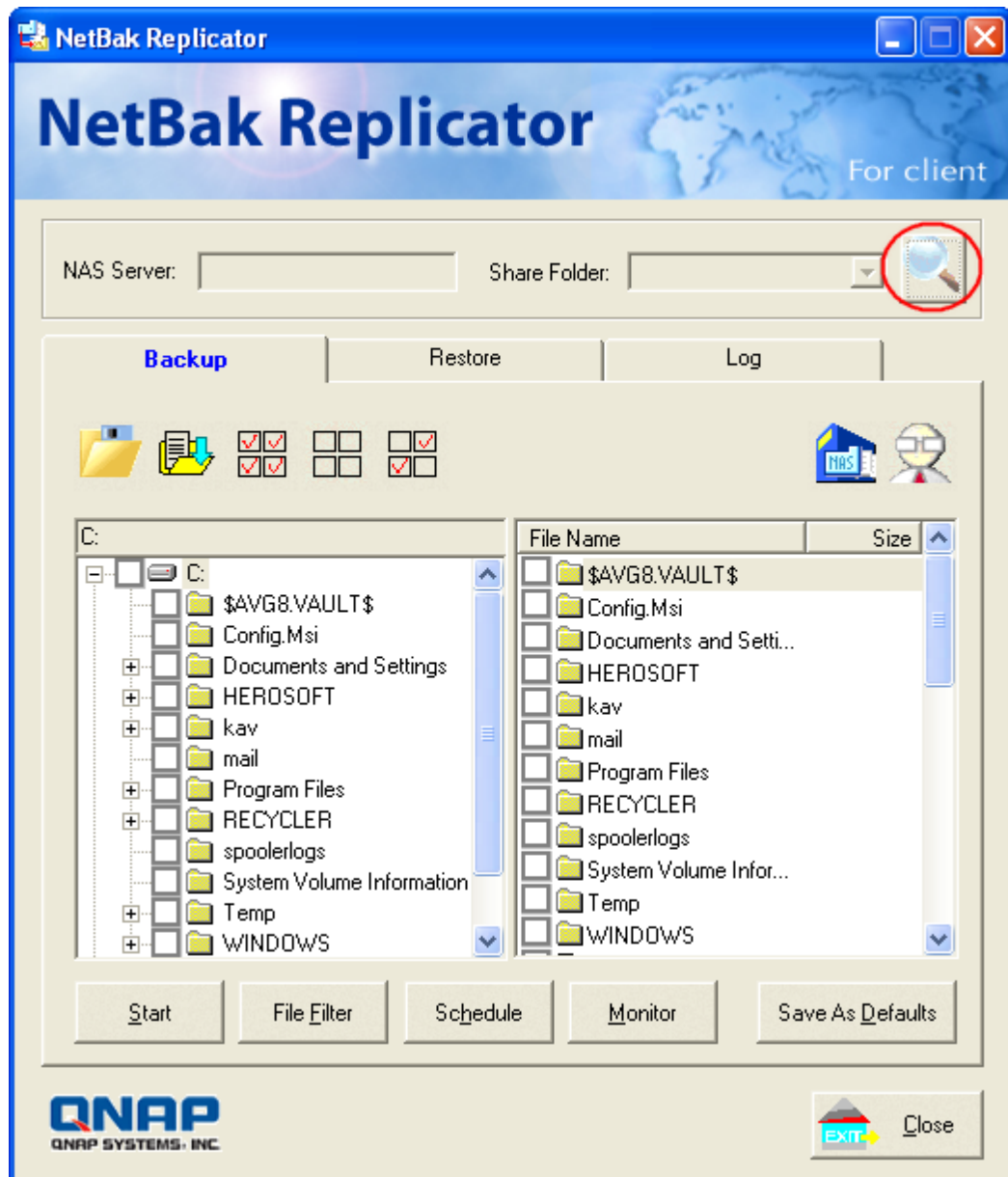
3. , . NetBak Replicator . NetBak

NetBak Replicator

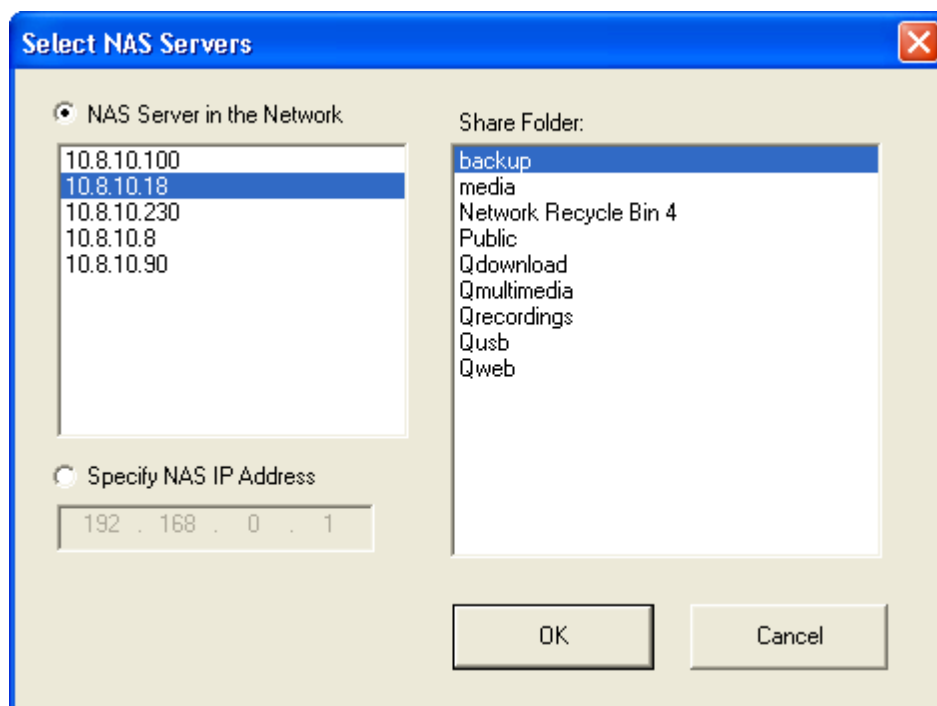
1. NAS “ ”> “ ” 가
NetBak Replicator . NetBak Replicator



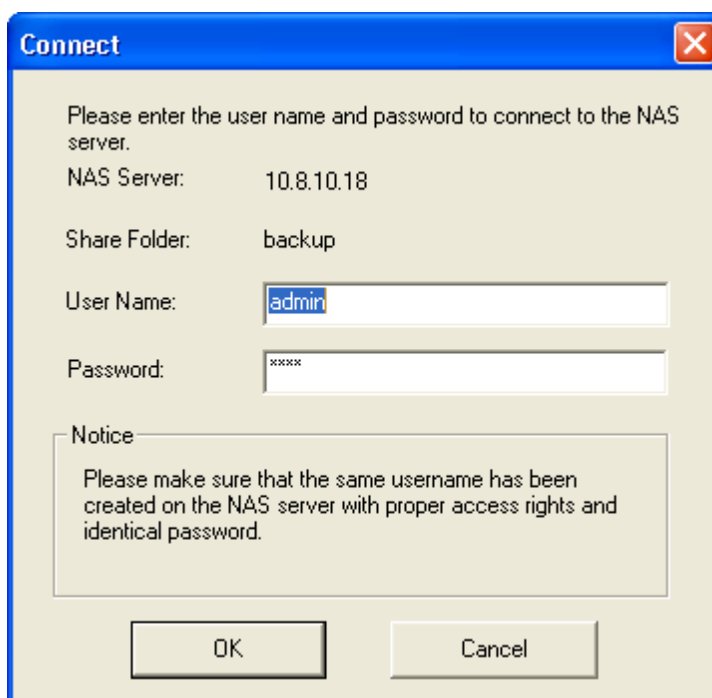
2. NetBak Replicator . NAS 가



3. , LAN NAS가
NetBak Replicator WAN NAS IP










- 4.



5. NAS

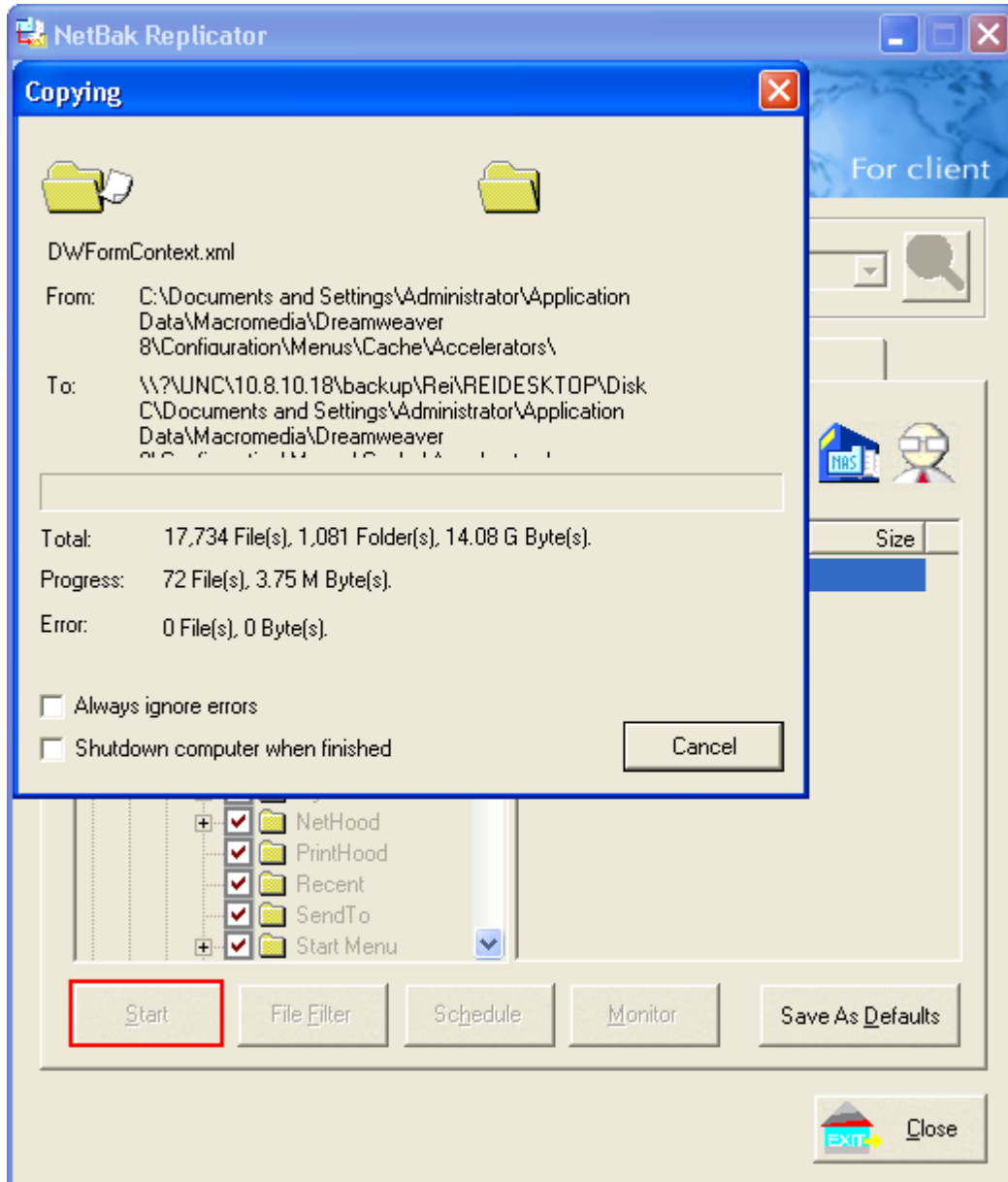
NetBak Replicator

	: NetBak Replicator
	: NetBak Replicator *.rpr
	:
	:
	:
	NAS :
	:

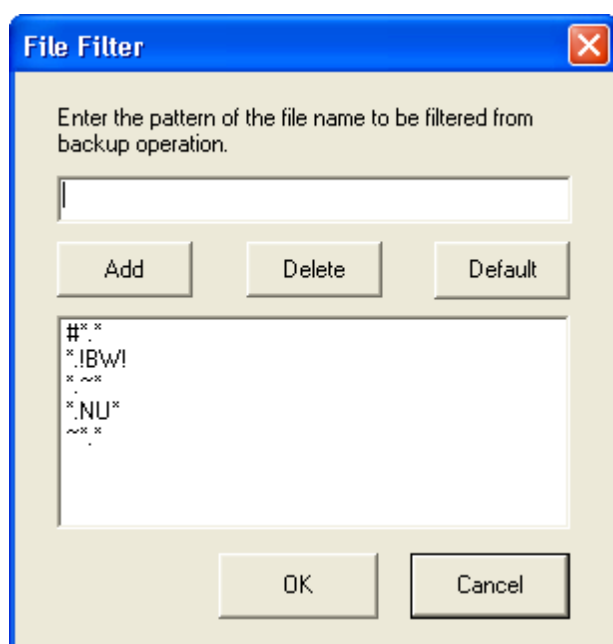


NAS


, NetBak Replicator " "











Backup Schedule 

Select the frequency and time for backup.

☒ Enable Backup Schedule

Start Time:  

Frequency

☒ Back up everyday.

☐ Back up on selected week day(s).

☐ Sunday ☐ Monday ☐ Tuesday ☐ Wednesday

☐ Thursday ☐ Friday ☐ Saturday



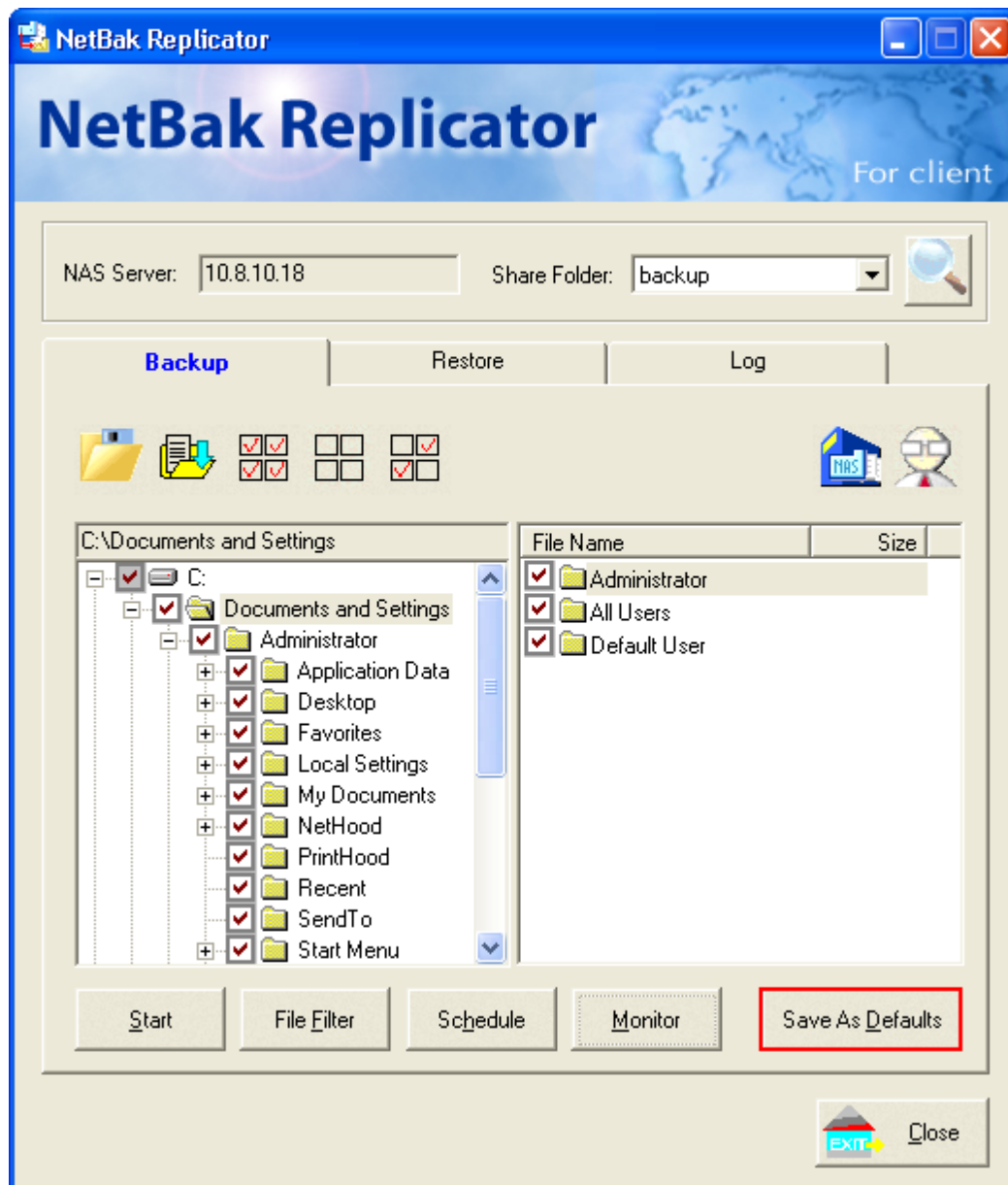
Windows



, NetBak Replicator

가

가



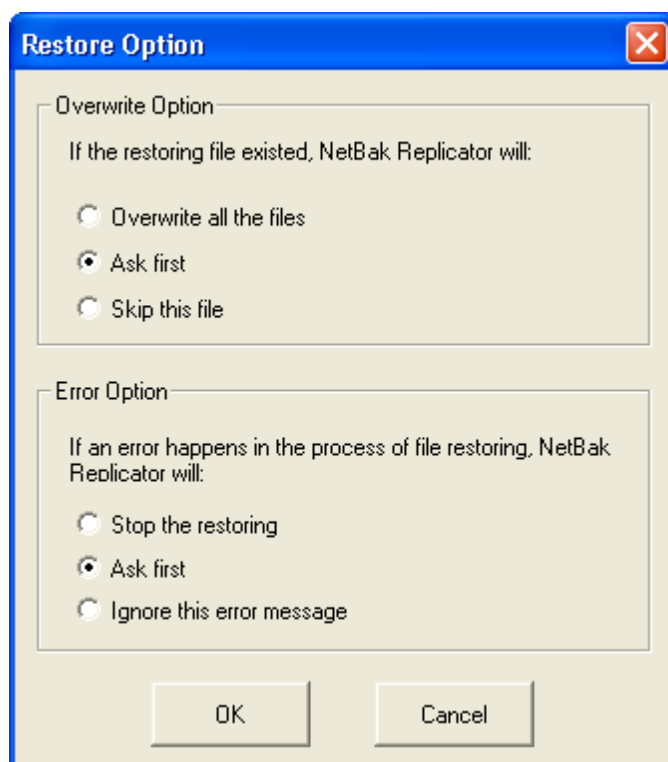
NAS PC



- a. NAS ()
- b. NetBak Replicator 'Restore()'
- c.
- d.
- e. 'Start()'



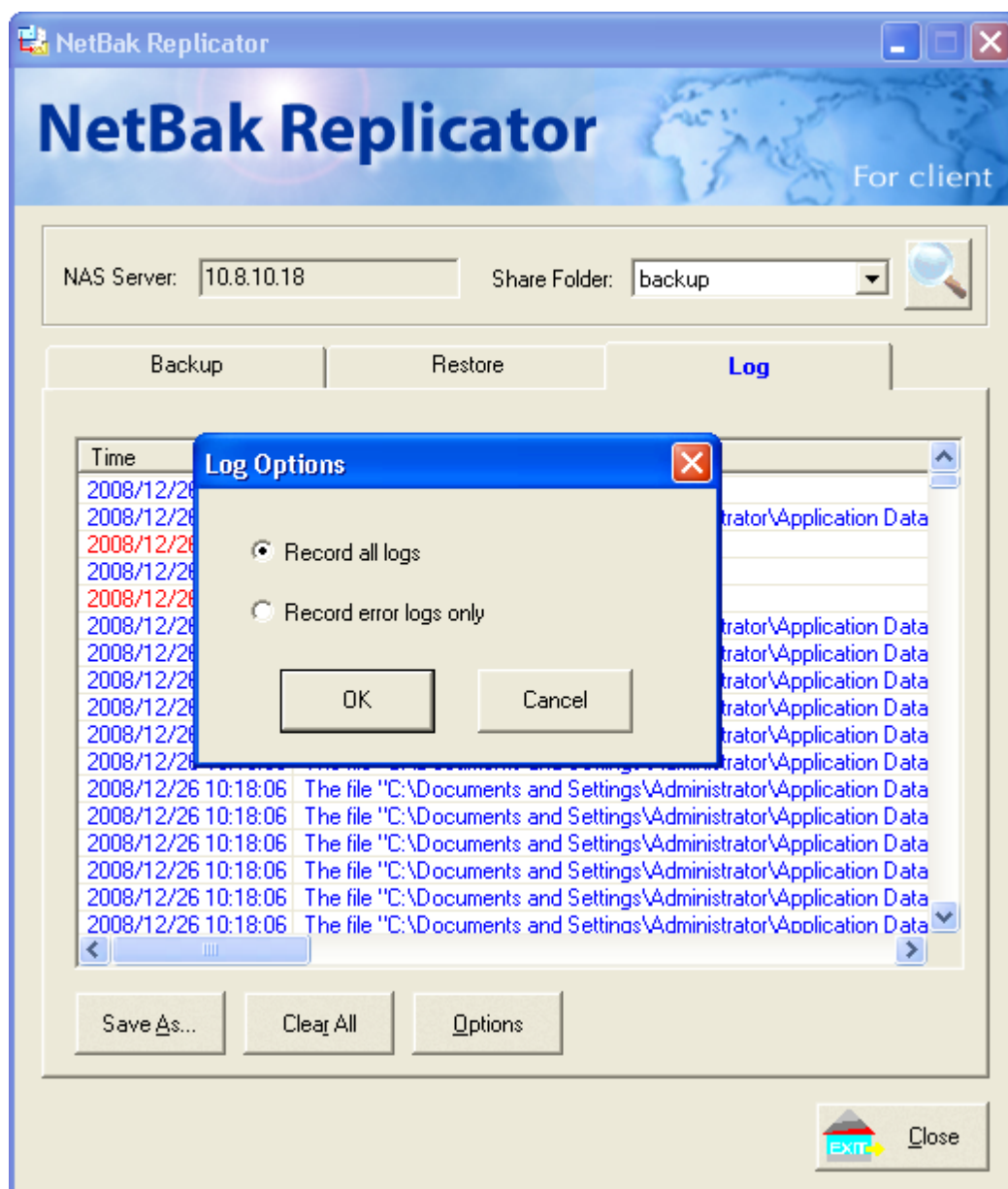




a. ...: NetBak Replicator

b. :

c. : — “ ” “ ”

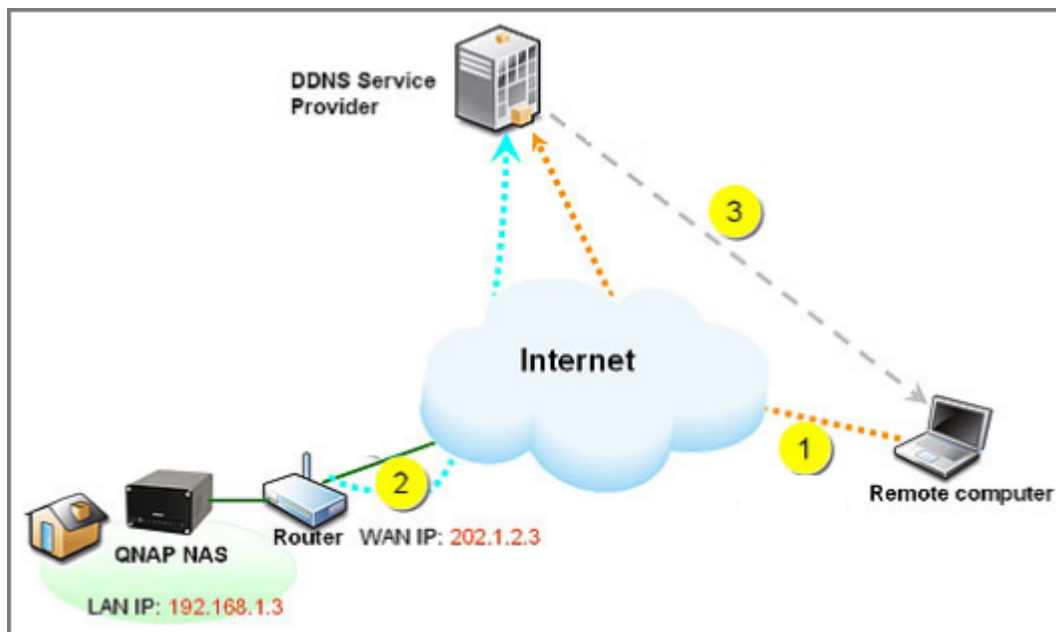


8. QNAP NAS (DDNS)

DDNS NAS

가 NAS IP가 NAS NAS IP
 IP 202.193.126.45 NAS NAT ISP가 IP
 가 NAS DDNS NAS

DDNS



1. URL <http://qnapqnap.dyndns.org> NAS
2. NAS WAN IP가 DDNS WAN IP DDNS
3. DDNS IP DDNS (qnapqnap.dyndns.org).

DDNS

DDNS

DDNS

QNAP NAS

DynDNS(<http://www.dyndns.com/>)가
DDNS :

<http://www.dyndns.com/>
<http://update.ods.org/>
<http://www.dhs.org/>
<http://www.dyns.cx/>
<http://www.3322.org/>
<http://www.no-ip.com/>

<http://www.dyndns.com/> 'Create Account()'

DynDNS

User: Pass:

[Lost Password?](#) [Create Account](#)

About Services Account Support News

PUT SOME SPRING IN YOUR SERVER
DynDNS now offers Virtual Servers
[Learn more...](#)

New to DynDNS?
Take a tour and see what we do

DNS Services
DNS for static and dynamic IP address

MailHop Services
Ensure reliable email delivery

News Dynamic Network Services Inc. Releases MailHop 2.0

Resources
What is DNS?
DNS Tools
Home Solutions
Business Solutions

Services
DNS Hosting
Free Dynamic DNS
Email Relay
Domain Names

Support
24/7 Premier Support
DNS Update API
Update Clients
Updater for Windows

About DynDNS
Company Facts
Technologies
DNS Inc. Jobs
Contacts

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Create Your DynDNS Account

Please complete the form to create your free DynDNS Account.

- User Information

Username:	<input type="text" value="qnopqnap"/>	
Email Address:	<input type="text" value="qnopqnap@qnop.com"/>	Instructions to activate your account will be sent to the email address provided.
Confirm Email Address:	<input type="text" value="qnopqnap@qnop.com"/>	
Password:	<input type="password" value="••••"/>	Your password needs to be more than 5 characters and cannot be the same as your username. Do not choose a password that is a common word, or can otherwise be easily guessed.
Confirm Password:	<input type="password" value="••••"/>	

- About You (optional)

Providing this information will help us to better understand our customers, and tailor future offerings more accurately to your needs. Thanks for your help!

How did you hear about us:	<input type="text" value=""/>	We do not sell your account information to anyone, including your email address.
Details:	<input type="text" value=""/>	

Account Created

Your account, **qnopqnap**, has been created. Directions for activating your account have been sent to your email address: **qnopqnap@qnop.com**. To complete registration, please follow the directions you receive within 48 hours.

You should receive the confirmation email within a few minutes. Please make certain that your spam filtering allows messages from support@dyndns.com to be delivered. If you have not received this email within an hour or so, request a [password reset](#). Following the instructions in the password reset email will also confirm your new account.

Thanks for using DynDNS!

DDNS


Login

Account Login

Username:

Password:

가



Logged In User: **qnapqnap**
[My Services](#) - [My Cart](#) - [Log Out](#)


AboutServicesAccountSupportNews

My Account

My Services


Account Settings

Billing


 My Cart
0 items

Search


Account Summary for qnapqnap

 My Services
View, modify, purchase, and delete your services.

[My Zones](#)
[Add Zone Services](#)
[My Hosts](#)
[Add Host Services](#)
[Spring Services](#)
[Account Upgrades](#)
[MailHop Outbound](#)
[Network Monitoring](#)
[SSL Certificates](#)
[Recursive DNS](#)
[Support](#)
[Premier Support](#)
[Contact Support](#)
[DNS Service Level Agreement](#)

 Billing
Update your billing information, complete a purchase, and view invoices.

[View Shopping Cart](#)
[Active Services](#)
[Order History](#)
[Billing Profile and Vouchers](#)
[Renew Services](#)
[Auto Renew Settings](#)
[Sync Expirations](#)

 Account Settings
Update your email address, set preferences, and delete your account.

[Change Email Address](#)
[Change Password](#)
[Change Username](#)
[Contact Manager](#)
[Mailing Lists](#)
[Move Services](#)
[Preferences](#)
[Close Account](#)

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341

'Services' () > 'Dynamic DNS' (DNS) .

DynDNS

Logged In User: [qnaqnaq](#)
[My Services](#) - [My Cart](#) - [Log Out](#)

[About](#) [Services](#) [Account](#) [Support](#) [News](#)

Services

We offer you superior domain name services (DNS), high quality domain management, world-class e-mail services, web redirection, and network monitoring. All of our services include **free technical support by e-mail or phone** where you speak to a highly trained engineer rather than a call center reading a script off of a screen.

[Why DynDNS](#) - why you should choose us
[Technology Overview](#) - a peek behind the curtain

DNS Services

Dynamic DNS
A free DNS service for those with dynamic IP addresses.

Custom DNS
Our dynamic and static DNS management tool for your own domain.

Recursive DNS
Ensure DNS resolution for your DNS queries.

Secondary DNS
Add reliability to your own nameservers.

My Cart
[6 items](#)

Search

'Get Started' () .

Dynamic DNS

Dynamic DNS (DDNS) allows you to create a hostname that points to your dynamic IP or static IP address or URL. We also provide an update mechanism which makes the hostname work with your dynamic IP address. **We continue to offer this service free** to the Internet community as we have done so for nearly 10 years.

Get Started
Manage Hosts

Capabilities and Features

- Get five (5) hostnames in [88 available domains](#) for free.
- Create wildcard CNAME **.yourhost.dyndns.org* for *yourhost.dyndns.org*.
- Forward web requests or mark host offline for maintenance or downtime.
- Configure MX records for flexible mail routing.
- Update host using [ddns update clients](#) for a wide variety of platforms.
- Modify DNS TTL values for fast propagation or reliable static IP caching.
- Deliver your DNS records to 5 DNS servers in 5 tier-1 datacenters around the globe.
- Query volume up to 648,000 queries/month

Our **free industry-leading e-mail support** is ready to help you setup your dynamic or static DNS so you can host a website, remotely connect to your machine, and run a mail server. We also offer other premium features with our [Account Upgrade](#) service.

Screenshot

Dynamic DNS Control Panel

: 'IP Address' (IP) WAN 가 . http://www.ip-lookup.net/
NAT IP

Add New Hostname

[Host Services](#)

Note: You currently don't have Account Upgrades in your account. You cannot use some of our Host Service features. Please consider buying Account upgrade that make this form full-functional and will add several other features. [Learn More...](#)

Hostname:	<input type="text" value="qnapqnap"/>	<div>homelinux.net</div>
Wildcard:	<input type="checkbox"/> Yes, alias **.hostname	
Service Type:	<input checked="" type="radio"/> Host with IP address <input type="radio"/> WebHop Redirect <input type="radio"/> Offline Hostname	
IP Address:	<div><input type="text"/></div> <div>Use auto detected IP address</div> <div>TTL value is 60 seconds</div>	
Mail Routing:	<input type="checkbox"/> Yes, let me configure	
	<div>doesntexist.com doesntexist.org dntexist.com dntexist.net dntexist.org dvrds.org dyn-o-saur.com dynalias.com dynalias.net dynalias.org dyndns.biz dyndns.info dyndns.org dyndns.tv dyndns.ws endofinternet.net endofinternet.org endoftheinternet.org ftpaccess.cc game-host.org</div>	
	<div>Create Host</div>	

가

Host Services

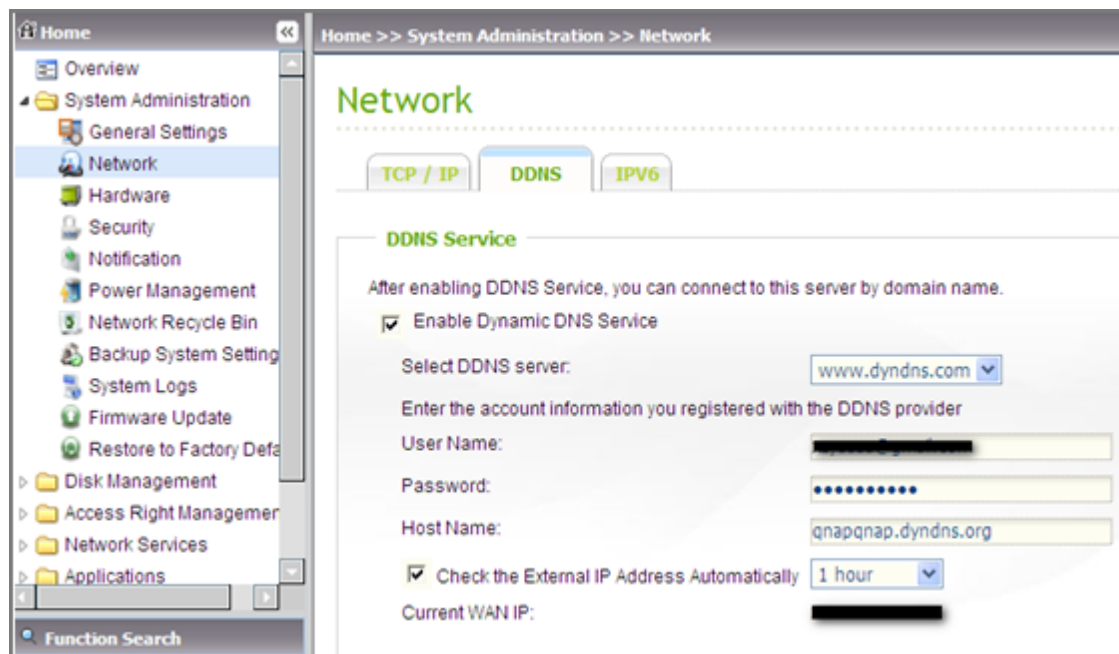
[Add New Hostname](#) - [Host Update Logs](#)

Hostname [qnapqnap.dyndns.org](#) created.

Hostname	Service	Details	Last Updated
qnapqnap.dyndns.org	Host	219.85.63.13	Sep. 05, 2008 3:53 AM

QNAP NAS 'System Administration' () > 'Network' () > 'DDNS'

Check the External IP Address Automatically(IP): NAS가
 NAS (WAN) IP , IP 가 NAS DDNS



(qnapqnap.dyndns.org) NAS

NAS가 NAT , NAT NAS LAN IP
' , 'NAT ' 가 ' NAS
8080

Q N A P N A S	
N A S	
	8080(, v2.3.0 TS-101/201)
	6000(v2.1.1 TS- 100/101/201)
FTP	21
FTP	55536~56559
	80
Download Station (BitTorrent)	6881~6999
(Rsync)	873
Telnet	13131
SSH	22
SSL	443
SMTP	25
Samba	445
MySQL	3306
TwonkyMedia	9000

SMS

SMS

The diagram illustrates the architecture of a cloud-based mobile service. It shows the Internet cloud connected to three main components: a Network Attached Storage (NAS) unit, an SMS Gateway, and a Mail Server. The NAS stores messages. The SMS Gateway handles text messages, sending them to mobile phones. The Mail Server handles email messages, sending them to email clients. Dotted arrows labeled 'message' indicate the flow of data between these components and the Internet.

SMS

Clickatell Clickatell <http://www.clickatell.com/login.php>
'New Customers(' 'Clickatell Central (API)' '

New Customers

If you do not already have an account, take a moment to create one. You will benefit from:

- A user-friendly administration interface
- Free registration and no license fees
- 24/7 Service & Support
- Web based account accessible from anywhere
- Multiple payment options

Product Selection:

Please Select Product

Please Select Product

Clickatell Central (API)

Communicator

Messenger-Pro

Clickatell Affiliates

Clickatell Wholesale

'Continue' () . SMS

✓ Complete our simple registrations process below to test our gateway and obtain your free test credits.

* Indicates all fields that are required.

Step 1 of 4 - Select Product




Select one of the products below which you would like to register for:

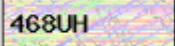
☒ Clickatell Central ? ☐ Communicator ?

Step 2 of 4 - Account Setup

Select a country specific or International account type, based on your requirements for SMS traffic delivery destinations.

International Coverage Account: ? Local Coverage Account: ?

☒ INTERNATIONAL ☐  USA ☐  UK ☐  SA

* Create Username: Security Code: 

* Create Password: *Enter Security Code:

Step 3 of 4 - Personal Information

*First Name: * Country:

* Last Name: * Mobile Number:

* Email Address: (e.g. sample@domain.com)


Personal Use Only ☒

* Company:

Emails sent to me must be in ☒ Text format or ☐ HTML format

☐ I would like to receive: Clickatell News, Balance Notifications, Promotions

☒ * I accept Clickatell's [Terms and Conditions](#)

Security & Privacy 

가
가

'Login' ()

My Account Login

Customer Login


Existing Clickatell account holders can select their product and login below. Note, username & password are CASE sensitive.

Select Product: Clickatell Central (API) ▼

Username:

ClientID:

Password:


[Lost password?](#)

'SEND ACTIVATION CODE' () Clickatell

Verify your Mobile Number

For security reasons you are required to verify your mobile number in order to make your first credit purchase and send non-test SMS messages.

Your activation code will be sent to

If this is not your number, please retype your mobile number in the box above and click the "Send Activation Code" button.

Enter your activation code here:

Clickatell

'Manage my Products' () 가 'My Connections' ()

'HTTP'

Central HomeMy SettingsManage my ProductsBillingMessage ReportsHelp

Manage my Products
[My Connections](#)
 Converters
 Two-Way Messaging
Application Forms
 Two-Way Messaging
 SA Shortcode MO
 Namibia Shortcode
 USA Shortcode
 USA Shortcode MFS
 UK Shortcode
 Canada Shortcode
 Clickatell ICM

Test Message in Message Box
 Please Note that Clickatell pre-populates all test credits with a standard test message. Once you have purchased Clickatell credits, the test message will be removed and you will be able to send personalized text messages.
[Buy SMS Credits](#)

My Connections:

Add Connection
Add Connection
HTTP
SMTP
FTP
XML
COM
SMPP
SOAP

a quick overview of each connection type. Also take a look at a comparison of [Clickatell](#) and [supported message types](#)
popular connection, HTTP is one of the simpler forms of communicating to the Clickatell API. It is [HTTP/Internet Post](#). [Add connection](#)

, 'Name' (), 'Dial Prefix' (), 'Callback Type' ()

'HTTP API' . 'Submit' ()

HTTP API
 This product provides an interface between your applications and the Messaging Gateway. It is a lower level connectivity option, but offers the most functionality and flexibility for the Developer and Systems Integrator. With the API you can set up alert-based SMS delivery from your server, deliver information to your mobile sales staff and keep in contact with your customers. This product is intended for machine-generated to User messaging.

Add HTTP API - Bold Items Required

Name: TS-639-Pro

IP Lock Down:

Dial Prefix: Taiwan (886)

Callback Type: HTTP GET

Callback Url:

Callback Username:

Callback Password:

NOTE: submission of this form will delete any session_id currently valid for this api_id. Any application using this session_id will have to re-authenticate.

Submit

350

SMS
NAS

'API ID'

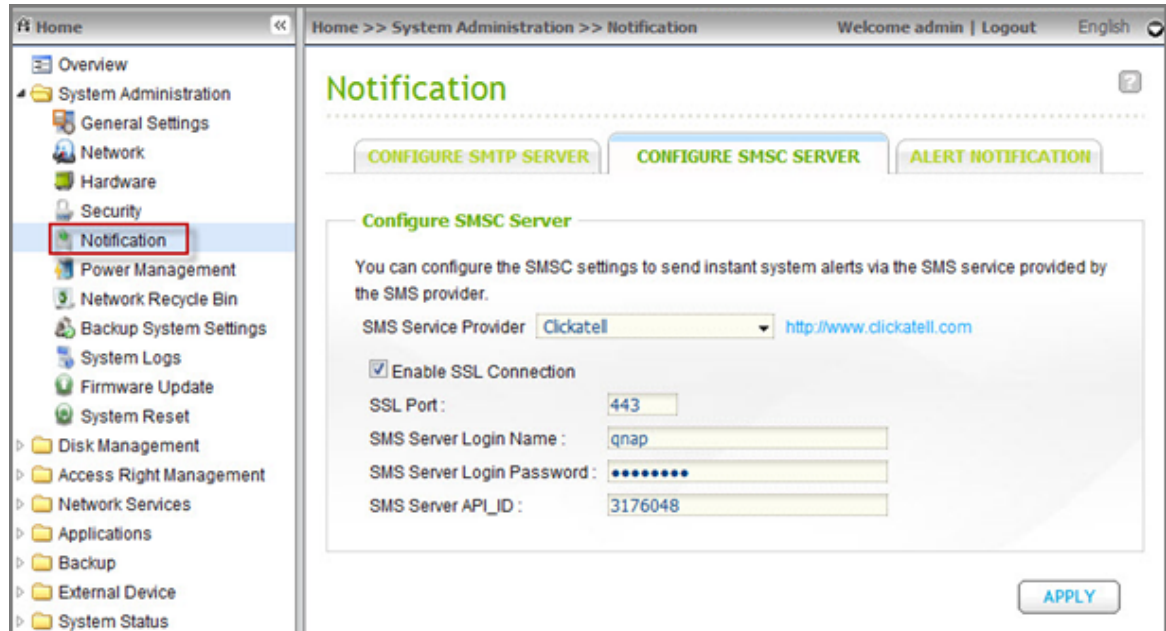
Name	Type	API ID ▼	Dialing Code
TS-639-Pro	HTTP	3176048	886 Taiwan
1 to 1 of 1			

Clickatell

'API ID'

NAS SMSC SMS

'System Administration' () > 'Notification' () > 'Configure SMSC Server'
(SMSC) 가 1 SMSC .



'System Administration' () > 'Notification' () > 'Alert Notification' ()
가

Home >> System Administration >> Notification

Welcome admin | Logout English

Notification

CONFIGURE SMTP SERVER CONFIGURE SMSC SERVER **ALERT NOTIFICATION**

Alert Notification

When a system event occurs, an alert email/SMS will be sent automatically.

Send system error alert by: **SMS**

Send system warning alert by: No alert

E-mail Notification Settings

E-mail address 1: my@mail.com

E-mail address 2:

[SEND A TEST E-MAIL](#)

Note: The SMTP server must be configured first for alert mail delivery.

SMS Notification Settings

Country Code: **Taiwan (+886)**

Cell Phone No. 1: +886 **987654321**

Cell Phone No. 2: +886

[SEND A TEST SMS MESSAGE](#)

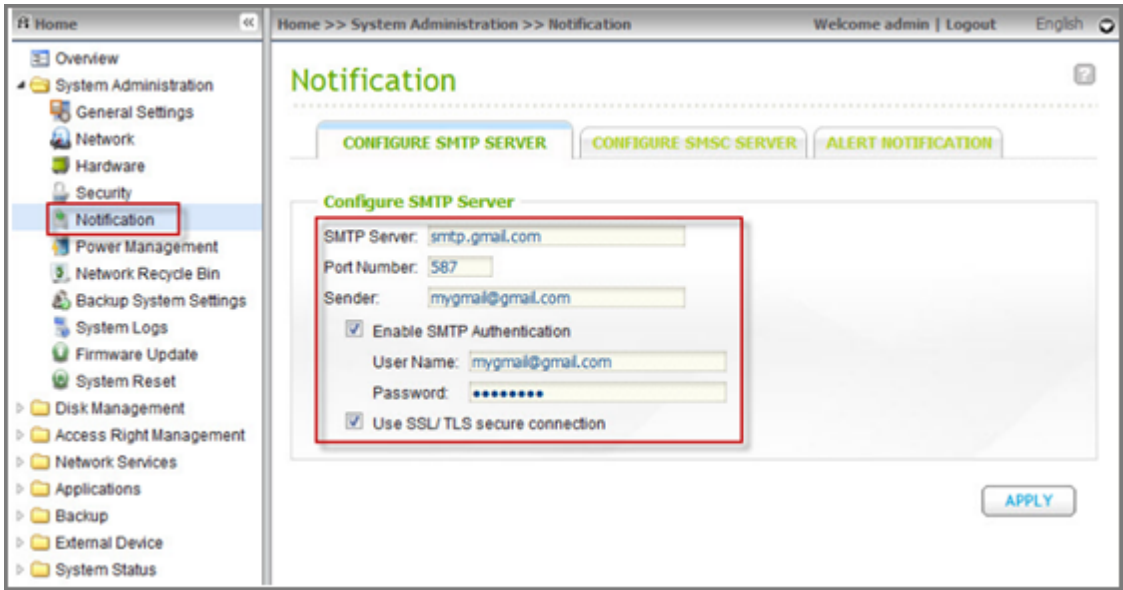
Note: You must configure the SMSC server to be able to send SMS notification properly.

[APPLY](#)

! 'SEND A TEST SMS MESSAGE' (SMS)
SMS 가 10

SMTP

'System Administration' () > 'Notification' () > 'Configure SMTP Server' (SMTP)
Gmail SMTP

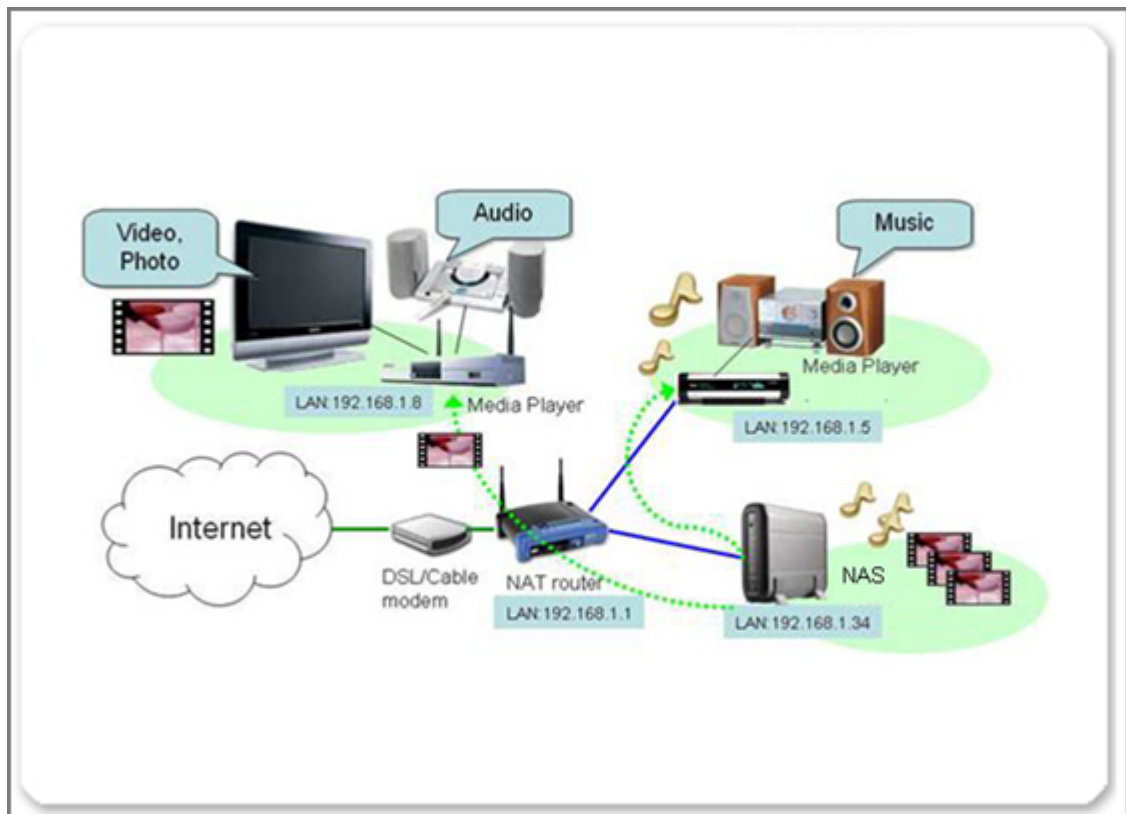


'System Administration' () > 'Notification' () > 'Alert Notification' ()
가
'SEND
A TEST E-MAIL' ()

SMS NAS

UPnP

QNAP NAS



UPnP

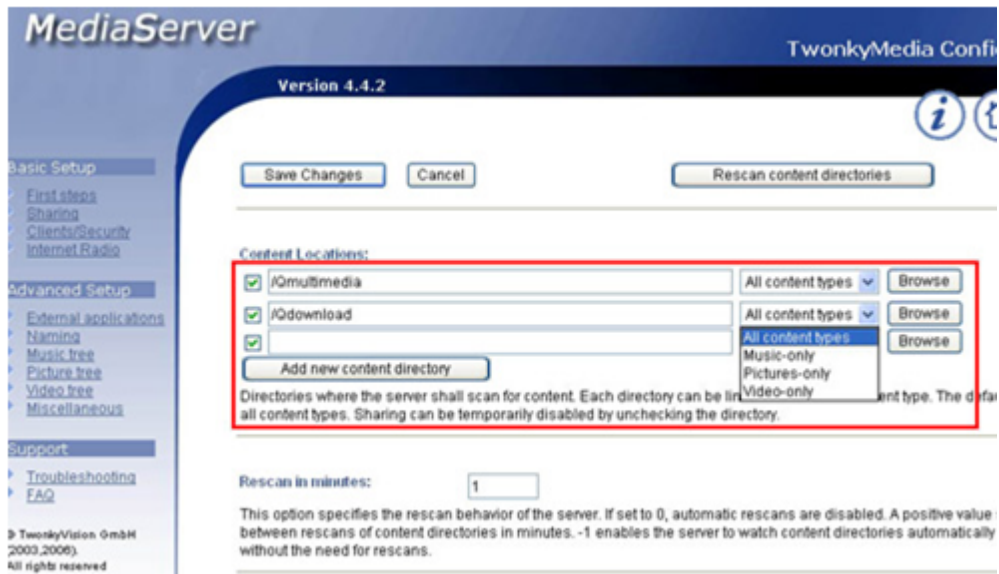
'Applications' () > 'UPnP Media Server' (UPnP) 가 'Enable UPnP Media Server(UPnP)' 'Apply' () . UPnP 가



TwonkyMedia

TwonkyMedia 4.4.2 . NAS가

'http://NAS IP:9000/' TwonkyMedia . 'Content
Locations' () . QNAP NAS
(Qmultimedia Multimedia)
/Qdownload 가



TV

MediaServer TwonkyMedia Conf
Version 4.4.2

Basic Setup
First steps
Sharing
Client/Security
Internet Radio

Advanced Setup
External applications
Naming
Music tree
Picture tree
Video tree
Miscellaneous

Support
Troubleshooting
FAQ

© TwonkyVision GmbH
2003,2006)
All rights reserved

Save Changes Cancel Restart server

	Name	Type	ABC
Picture node 1:	Album		-
Picture node 2:	Date	Year	-
		Month	-
Picture node 3:	Folder	Folder	-
Picture node 4:		Folder	-
	Add node		

An individual picture navigation tree with up to 5 nodes may be specified. Each node the name and the node type have to be specified.

Navigation Tree Setup: Custom

There is the choice of selecting different pre-configured navigation trees or defining a customized tree structure

'Save Changes' ()

MP3, Qmultimedia Multimedia Windows
FTP NAS 가

가 (HD) QNAP NAS TV Hi-Fi NAS UPnP 가
 가 , TV Hi-Fi 가



TCP/IP
 DMP 가 LAN IP DHCP . (IP DHCP .)

TV

/ , S- , S/PDIF ,
HDMI



1 (Buffalo LinkTheater)

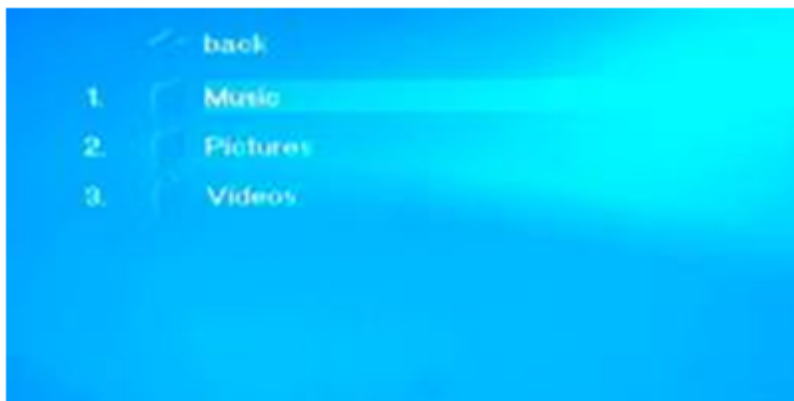
TV



가 TV 가
NAS NAS



NAS



2 (ZyXEL DMA-1000W)
ZyXEL DMA-1000W SigmaDesigns

가



TV HDMI 가 ,
HDMI TV



TV HDMI 가 S- TV , /
 , S/PDIF
Hi-Fi



TV (: HDMI S-).
'Server' () 가 가 NAS NAS



11. QNAP NAS PHPBB

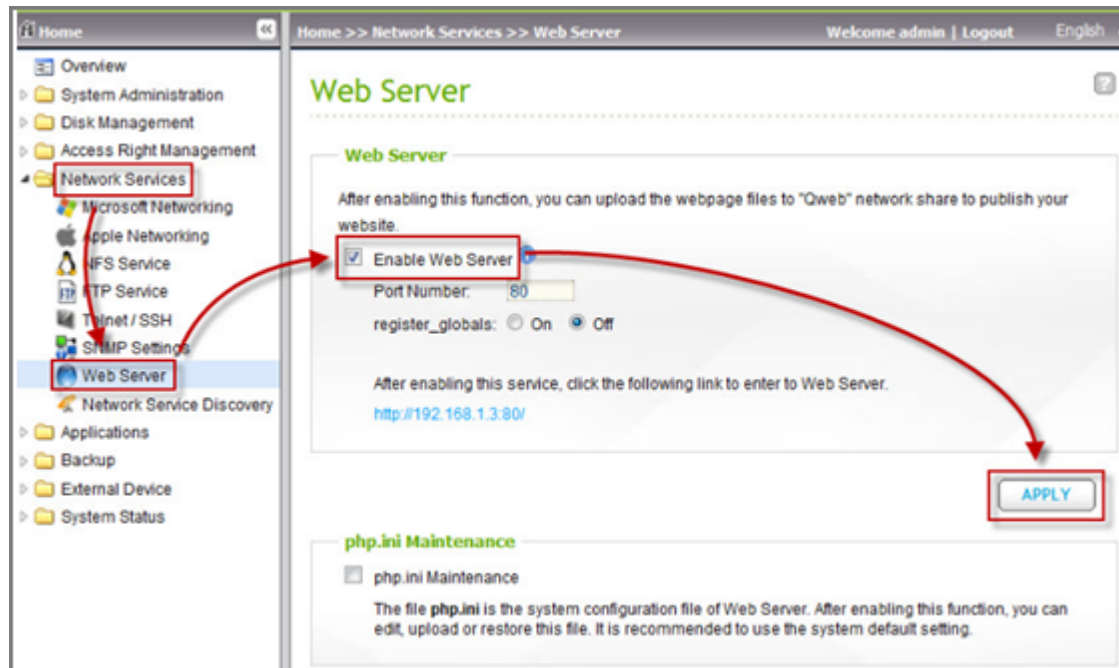
phpBB

QNAP NAS

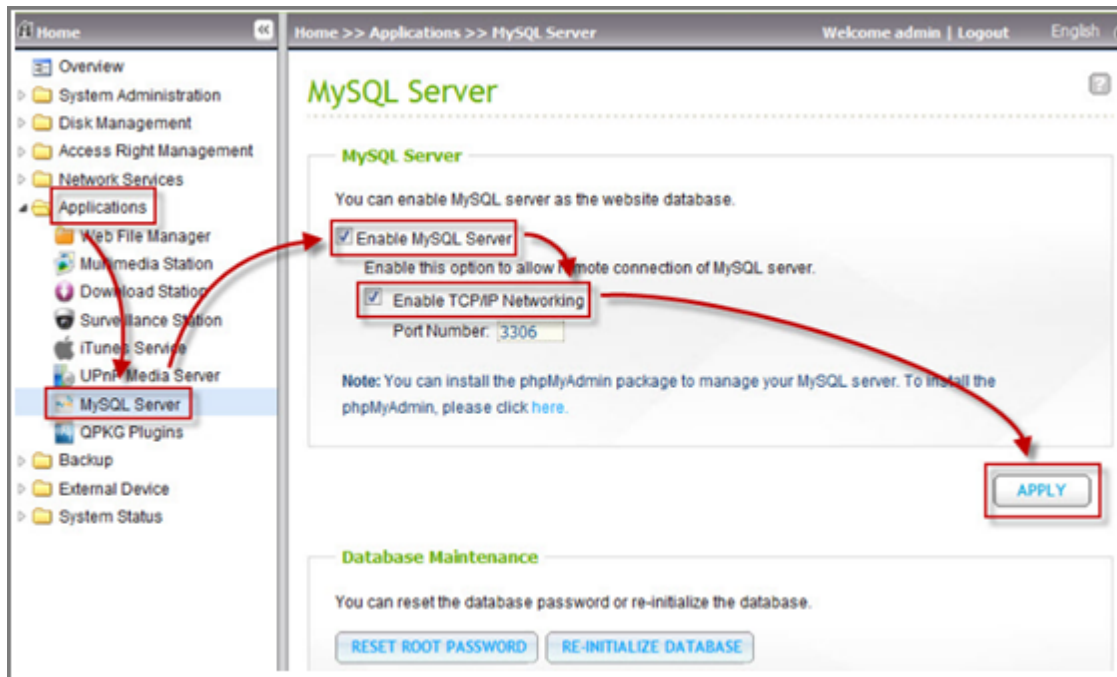
MySQL

'Network Services' () > 'Web Server' ()

'Enable Web Server' () 'Apply' ()



'Applications' () > 'MySQL Server' (MySQL) 가 'Enable MySQL Server' (MySQL) 'Enable TCP/IP Networking' (TCP/IP) 'Apply' () .



phpMyAdmin phpBB3

phpBB3

phpBB3

phpMyAdmin QPKG NAS

<http://NAS-IP/phpMyAdmin/>

([root/admin](#)).

phpMyAdmin



The image shows the phpMyAdmin login interface. At the top is the phpMyAdmin logo with the tagline "—clear view". Below the logo is the text "Welcome to phpMyAdmin". There is a "Language" dropdown menu set to "English". Below that is a "Log in" section with a question mark icon. It contains two input fields: "Username" with the text "root" and "Password" with masked characters (dots). A red arrow points to the "root" username. A red rectangle highlights both the "Username" and "Password" fields. At the bottom right of the login section is a "Go" button.

'Create new database' () 'phpbb3'

(UTF-8) 'Created' ()



The image shows the MySQL 127.0.0.1 "Create new database" screen. It has a title "MySQL 127.0.0.1" and a sub-header "Create new database" with a question mark icon. Below this are two input fields: the first contains "phpbb3" and the second is a dropdown menu showing "utf8_unicode_ci". A red rectangle highlights both of these fields. Below the fields is a "Create" button. At the bottom, there is a label "MySQL connection collation:" followed by a dropdown menu also showing "utf8_unicode_ci" and a question mark icon.

phpBB3


phpbb3 http://www.phpbb.com/downloads/olympus.php
Package()] Qweb

[Full


[Full Package]

Contains entire phpBB3 source and english language files.

Best suited for new installations.

 [Download phpBB 3.0.5 \(zip\)](#)

Size: 2.22 MiB
md5sum: 69c4ec3f1495e518c6b8a5dac8543ab4

 [Download phpBB 3.0.5 \(bz2\)](#)

Size: 1.43 MiB
md5sum: 734b8f9c2390d5cc8c971cfcb29da185

'http://NAS-IP/phpBB3'
'INSTALL' ()

phpBB3

가



'Proceed to next step' ()

The screenshot shows the phpBB3 Installation Panel. At the top, the phpBB logo is on the left, and 'Installation Panel' is on the right. Below the logo, there are three tabs: 'OVERVIEW', 'INSTALL' (which is highlighted), and 'CONVERT'. To the right of the tabs, there is a language selection dropdown set to 'British English' and a 'Change' button. On the left side of the main content area, there is a sidebar with a list of links: 'Introduction' (highlighted with a red arrow), 'Requirements', 'Database settings', 'Administrator details', 'Configuration file', 'Advanced settings', 'Create database tables', and 'Final stage'. The main content area has the heading 'Welcome to Installation'. Below the heading, there is a paragraph explaining that the user needs database settings to proceed. This is followed by a bulleted list of required information: Database Type, Database server hostname or DSN, Database server port, Database name, and Database username/password. A 'Note' follows, explaining the requirements for SQLite. Then, a list of supported databases is provided: MySQL 3.23 or above, PostgreSQL 7.3+, SQLite 2.8.2+, Firebird 2.0+, MS SQL Server 2000 or above, and Oracle. At the bottom of the main content area, there is a button labeled 'Proceed to next step', which is highlighted with a red box and a red arrow pointing to it from the right.

phpBB3 Installation Panel

Select language: British English Change

OVERVIEW **INSTALL** CONVERT

> Introduction

- Requirements
- Database settings
- Administrator details
- Configuration file
- Advanced settings
- Create database tables
- Final stage

Welcome to Installation

With this option, it is possible to install phpBB3 onto your server.

In order to proceed, you will need your database settings. If you do not know your database settings, please contact your host and ask for them. You will not be able to continue without them. You need:

- The Database Type - the database you will be using.
- The Database server hostname or DSN - the address of the database server.
- The Database server port - the port of the database server (most of the time this is not needed).
- The Database name - the name of the database on the server.
- The Database username and Database password - the login data to access the database.

Note: if you are installing using SQLite, you should enter the full path to your database file in the DSN field and leave the username and password fields blank. For security reasons, you should make sure that the database file is not stored in a location accessible from the web.

phpBB3 supports the following databases:

- MySQL 3.23 or above (MySQLi supported)
- PostgreSQL 7.3+
- SQLite 2.8.2+
- Firebird 2.0+
- MS SQL Server 2000 or above (directly or via ODBC)
- Oracle

Only those databases supported on your server will be displayed.

Proceed to next step

가
install' ()

가

'Start

MySQL

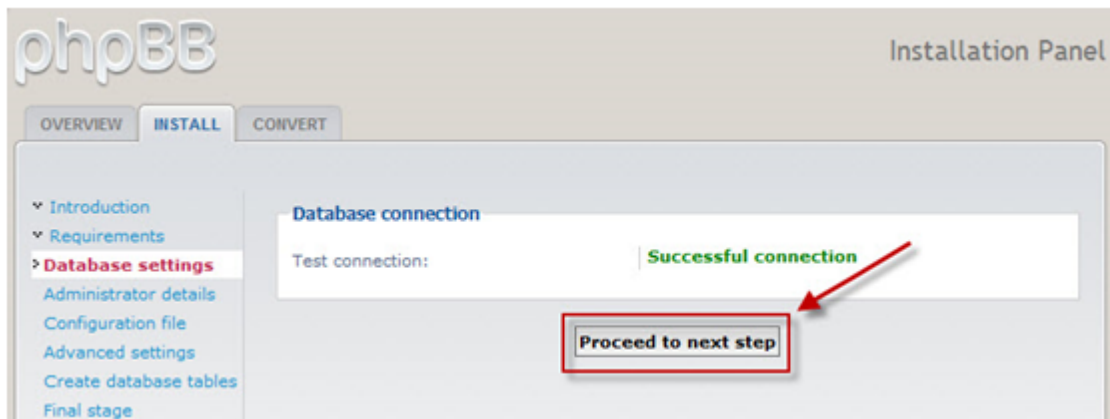
'Proceed to next step' ()

The screenshot shows the 'phpBB Installation Panel' with the 'INSTALL' tab selected. On the left is a navigation menu with links: Introduction, Requirements, Database settings (highlighted), Administrator details, Configuration file, Advanced settings, Create database tables, and Final stage. The main area is titled 'Database configuration' and contains the following fields:

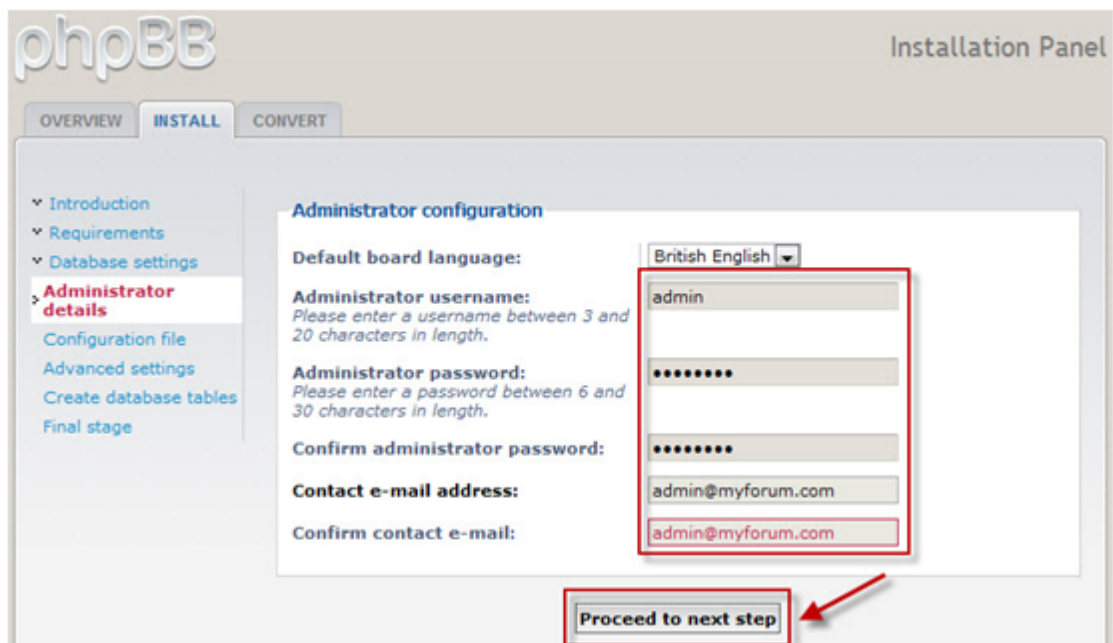
- Database type: MySQL (selected from a dropdown)
- Database server hostname or DSN: 127.0.0.1
- Database server port: (empty)
- Database name: phpbb3
- Database username: root
- Database password: (masked with dots)
- Prefix for tables in database: phpbb_

At the bottom of the configuration area is a button labeled 'Proceed to next step', which is highlighted with a red box and a red arrow pointing to it.

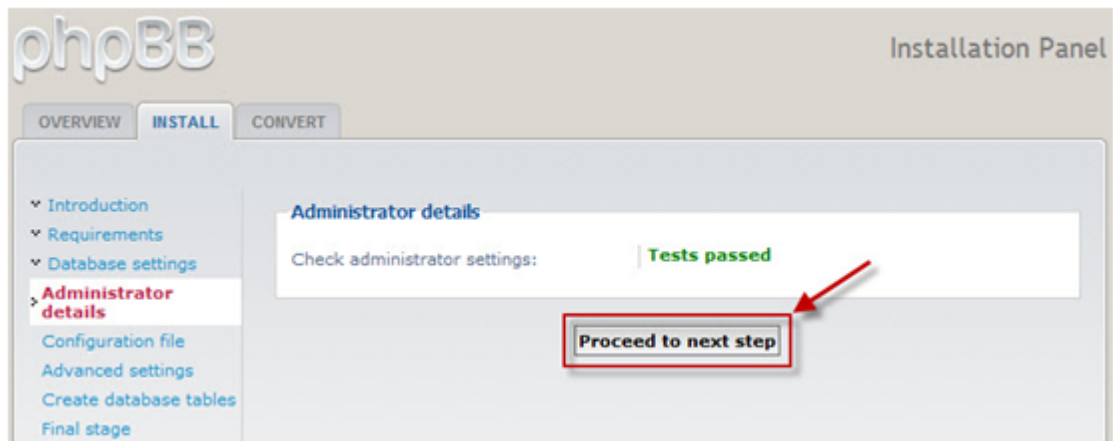
MySQL 가 'phpbb3' 'Successful connection' () 'Proceed to next step' ()



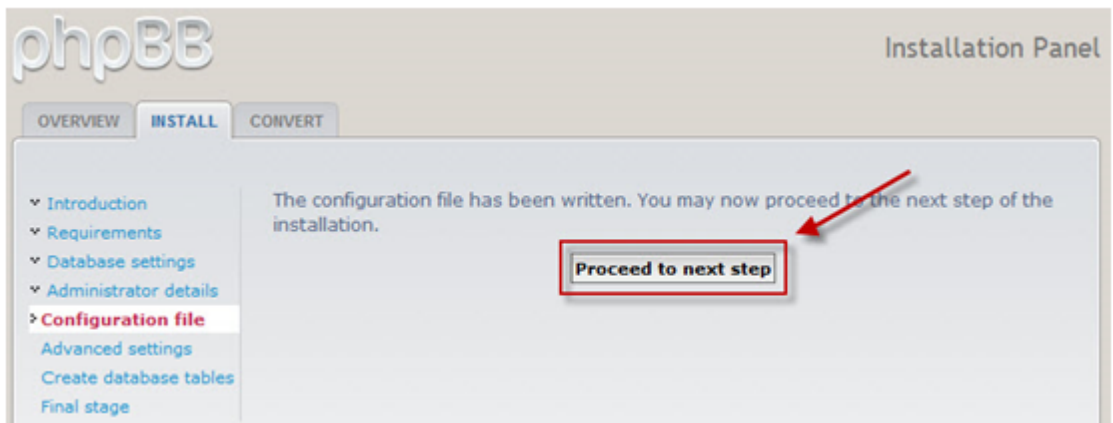
phpBB3 'Proceed to next step' ()



'Tests passed' ()가 'Proceed to next step' () .



phpBB3 (config.php) . 'Proceed to next step' ()



'Proceed to next step' ()

phpBB

Installation Panel

OVERVIEWINSTALLCONVERT

▼ Introduction

▼ Requirements

▼ Database settings

▼ Administrator details

▼ Configuration file

> Advanced settings

Create database tables

Final stage

The settings on this page are only necessary to set if you know that you require something different from the default. If you are unsure, just proceed to the next page, as these settings can be altered from the Administration Control Panel later.

E-mail settings

Enable board-wide e-mails:
If this is set to disabled no e-mails will be sent by the board at all.

☒ Enabled ☐ Disabled

Use SMTP server for e-mail:
Select "Yes" if you want or have to send e-mail via a named server instead of the local mail function.

☐ Yes ☒ No

SMTP server address:

Authentication method for SMTP:
Only used if a username/password is set, ask your provider if you are unsure which method to use.

PLAIN

SMTP username:
Only enter a username if your SMTP server requires it.

SMTP password:
Only enter a password if your SMTP server requires it.

Server URL settings

Cookie secure:
If your server is running via SSL set this to enabled else leave as disabled. Having this enabled and not running via SSL will result in server errors during redirects.

☐ Enabled ☒ Disabled

Force server URL settings:
If set to yes the server settings defined here will be used in favour of the automatically determined values.

☐ Yes ☒ No

Server protocol:
This is used as the server protocol if these settings are forced. If empty or not forced the protocol is determined by the cookie secure settings (http:// or https://).

http://

Domain name:
The domain name this board runs from (for example: www.example.com).

192.168.1.3

Server port:
The port your server is running on, usually 80, only change if different.

80

Script path:
The path where phpBB is located relative to the domain name, e.g. /phpBB3.

/phpBB3

Proceed to next step

Powered by phpBB © 2000, 2002, 2005, 2007 phpBB Group

phpBB3

step' ()

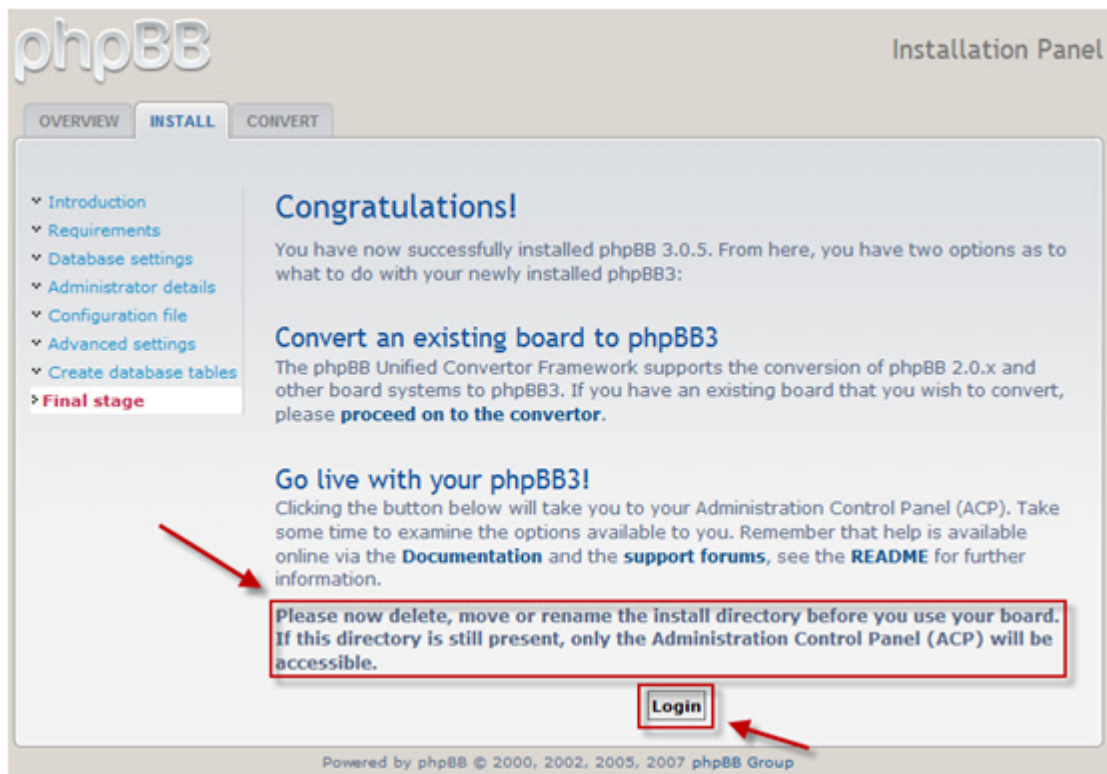
'Proceed to next



phpBB3

'Login' ()

phpBB3



Administration Control Panel
Admin index • Board index

GENERAL FORUMS POSTING USERS AND GROUPS PERMISSIONS STYLES MAINTENANCE SYSTEM

You are logged in as: **admin** [Logout]
[ACP Logout]

QUICK ACCESS

- Manage users
- Manage groups
- Manage forums
- Moderator log
- Spiders/Robots
- PHP information

BOARD CONFIGURATION

- Attachment settings
- Board settings
- Board features
- Avatar settings
- Private message settings
- Post settings
- Signature settings
- User registration settings
- Visual confirmation settings

CLIENT COMMUNICATION

- Authentication
- E-mail settings
- Jabber settings

SERVER CONFIGURATION

- Cookie settings
- Server settings
- Security settings
- Load settings
- Search settings

Welcome to phpBB

Thank you for choosing phpBB as your board solution. This screen will give you a quick overview of all the various statistics of your board. The links on the left hand side of this screen allow you to control every aspect of your board experience. Each page will have instructions on how to use the tools.

Board statistics

STATISTIC	VALUE	STATISTIC	VALUE
Number of posts:	1	Posts per day:	1
Number of topics:	1	Topics per day:	1
Number of users:	1	Users per day:	1
Number of attachments:	0	Attachments per day:	0.00
Board started:	Tue Jun 30, 2009 4:14 pm	Avatar directory size:	0 Bytes
Database size:	262.62 KiB	Size of posted attachments:	0 Bytes
Database server:	MySQL 5.0.67-log	GZip compression:	OFF
Board version:	3.0.5	Orphan attachments:	0

Resynchronise or reset statistics

Reset most users ever online [Run now](#)

Reset board's start date [Run now](#)

Resynchronise statistics [Run now](#)
Recalculates the total number of posts, topics, users and files.

Resynchronise post counts [Run now](#)
Only existing posts will be taken into consideration. Pruned posts will not be counted.

Resynchronise dotted topics [Run now](#)
First unmarks all topics and then correctly marks topics that have seen any activity during the past six months.

Purge the cache [Run now](#)
Purge all cache related items, this includes any cached template files or queries.

Logged administrator actions


This gives an overview of the last five actions carried out by board administrators. A full copy of the log can be viewed from the appropriate menu item or following the link below.

[» View administrator log](#)

USERNAME	USER ID	TIME	ACTION
admin	192.168.1.2	Tue Jun 30, 2009 4:14 pm	Installed phpBB 3.0.5

Inactive users

This is a list of the last 10 registered users who have inactive accounts. A full list is available from the appropriate menu item or by following the link below from where you can activate, delete or remind (by sending an e-mail) these users if you wish.


yourdomain.com
 A short text to describe your forum

[Advanced search](#)

[Board index](#)

[User Control Panel](#) (0 new messages) • [View your posts](#)



[FAQ](#) • [Members](#) • [Logout](#) [admin]

It is currently Tue Jun 30, 2009 4:17 pm
 [Moderator Control Panel]

Last visit was: Tue Jun 30, 2009 4:14 pm

[View unanswered posts](#) • [View new posts](#) • [View active topics](#)

[Mark forums read](#)

YOUR FIRST CATEGORY	TOPICS	POSTS	LAST POST
 Your first forum Description of your first forum.	1	1	by admin  Tue Jun 30, 2009 4:14 pm

WHO IS ONLINE

In total there are **2** users online :: 1 registered, 0 hidden and 1 guest (based on users active over the past 5 minutes)
 Most users ever online was **2** on Tue Jun 30, 2009 4:17 pm

Registered users: **admin**
 Legend: *Administrators*, *Global moderators*

STATISTICS





Total posts **1** • Total topics **1** • Total members **1** • Our newest member **admin**

[Board index](#)

[The team](#) • [Delete all board cookies](#) • All times are UTC

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[Administration Control Panel](#)

12. NAS

	/		
			
RAID			

/

2. “ ”

1.5 *

4

Home >> System Administration >> Power Management Welcome admin | Logout English

Power Management

- Restart/ Shutdown

Execute system restart/ shutdown immediately.

RESTART

SHUTDOWN

- **Configure Wake on LAN**

☐ Enable☐ Disable

- When the AC power resumes:

- Resume the server to the previous power-on or power-off status.

- ☐ Turn on the server automatically.

- The server should remain off.

- Set power on/ power off/ restart schedule

☐ Enable schedule

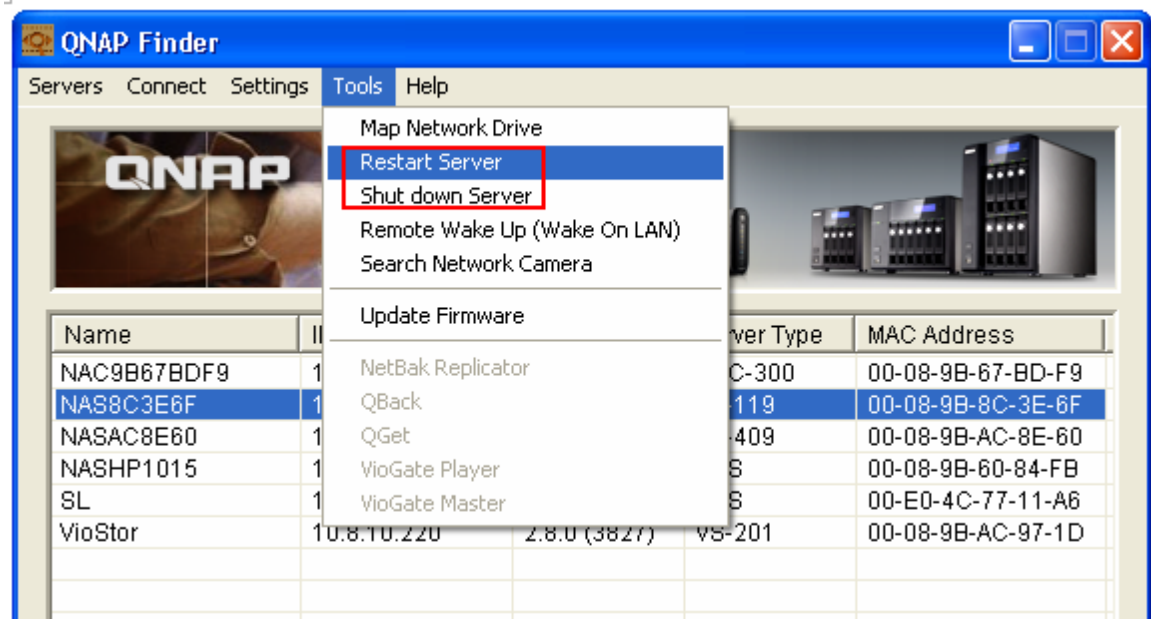
☐ Postpone the restart/shutdown schedule when a replication job is in progress.

Shutdown ▼ Daily ▼ 7 ▼ 0 ▼ + -

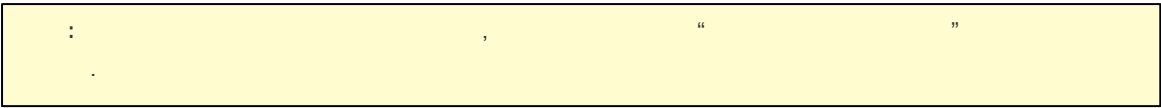
APPLY

Finder

().



12.2



Home >> System Administration >> HardwareWelcome admin | LogoutEnglish

Hardware

Hardware

☒ Enable configuration reset switch

☒ Enable hard disk standby mode (if no access within 30 minutes Status LED will be off)

☒ Enable light signal alert when the free size of disk is less than the value: 3072 MB

☐ Enable write cache (for EXT4)

Buzzer Control

Enable alarm buzzer

☒ System operations (booting, firmware upgrade)

☒ System events (Error and warning alert)

Smart Fan Configuration

Fan Rotation Speed Settings: Set fan rotation speed manually

☒ Low speed

☐ Medium speed

☐ High speed

APPLY

	(1)	(2)
NAS	3	10

(3)

3 , :

- : admin
- TCP/IP : DHCP IP
- TCP/IP :
- TCP/ IP : (LAN), “ () ”
- : 8080 ()
- :
- LCD : ()*

TS-439 Pro, TS-439 Pro II, TS-459 Pro, TS-509 Pro, TS-559 Pro, TS-639 Pro, TS-659 Pro, SS-839 Pro, TS-859 Pro, TS-809 Pro, TS-809U-RP, TS-859U-RP .

(10)

10 3 10 .

NAS “ ”> “ ” , NAS

12.3

- 가 가 :
 - 가 70 °C (158 °F)
 - CPU 가 85 °C (185 °F)
 - 가 65 °C (149 °F)
- *NAS 가 65 °C(149 °F) , NAS (“ ”> “ ”) 가 10 , NAS 5 가 15(5+ 10) 65 °C(149 °F)

12.4 RAID

NAS RAID 가 :

:	NAS	.
---	-----	---

1. RAID :

a. LED: NAS LED가 .

b. “ ”> “ ” “ ” .

2. 가 RAID .

“ ”> “ ” 가

Error occurred while accessing Drive X. (X 가 .)

Drive X has been removed. (X()가 .)

X 가 .

3. (: HDD 1) .
/ 가

1: . HDD1
(: HDD 1)가
RAID .

2: RAID (: HDD 2) .
RAID RAID 1 .

a. NAS .

b. (: HDD 1) .
(HDD 1) NAS 가 (: HDD 2)
NAS 가 , RAID 1

RAID RAID 5 6 : RAID ()



:

- 1.
- 2.

NAS

NAS

NAS

10

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Version 3, 29 June 2007

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