QNAP All-in-one SOHO and Home NAS Series

TS-210

TS-410

TS-110

Product Presentation

October 2009

http://www.qnap.com

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About QNAP

- **QNAP, with more than 8 years experience in embedded systems, is devoted to be world's leading company in IA (Internet Appliance) field.**
- **Successful experience in developing innovative IA products.**
  - Most Advanced Digital Surveillance Systems (Digital Video Recorder, Network Video Recorder)
  - Best synergy in storage and surveillance
  - Most Extensive Networking Storage (RAID, NAS)
  - NMP (Network Multimedia Player)

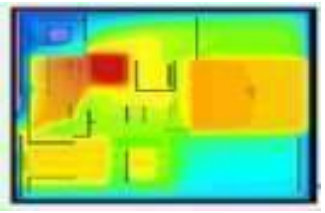
Awards

QNAP

Core Competencies

The Top-notch R&D Team in the Industry!!!

- **Software Team (over 32 engineers)**
  - Pioneer in embedded Linux technology
  - High performance and high reliability server & video technology
  - Extensive experience in RISC I/O processor
  - Experts in TCP/IP offload engine technology
  - Most complete self-developed management software
  - Advanced network distributed management technology
- **Hardware Team (over 12 engineers)**
  - Top notch E/E and ME design engineer team
  - Partner with major chipset vendors: Intel/VIA/Freescale/Marvell/Silicon Image
  - ID/ME/Thermal in house design & simulation capability



agile

Quality, Reliability and Compatibility are the Key Factors for the Success of QNAP and Our Partners

- **Hardware Test:**
  - Rigid stress test, reliability/stability test
  - Performance test, function test
  - Compatibility test
  - EMI test
- **Software Test:**
  - Full function test
  - Compatibility test
  - Real environment 32 clients NetBench test
- **Most Stringent Quality Controlled Manufacturing**
  - SMT/DIP Facility/Assembly Facility
  - Well setup IQC/IPQC/OQC system

32 Clients Simulation

Chamber

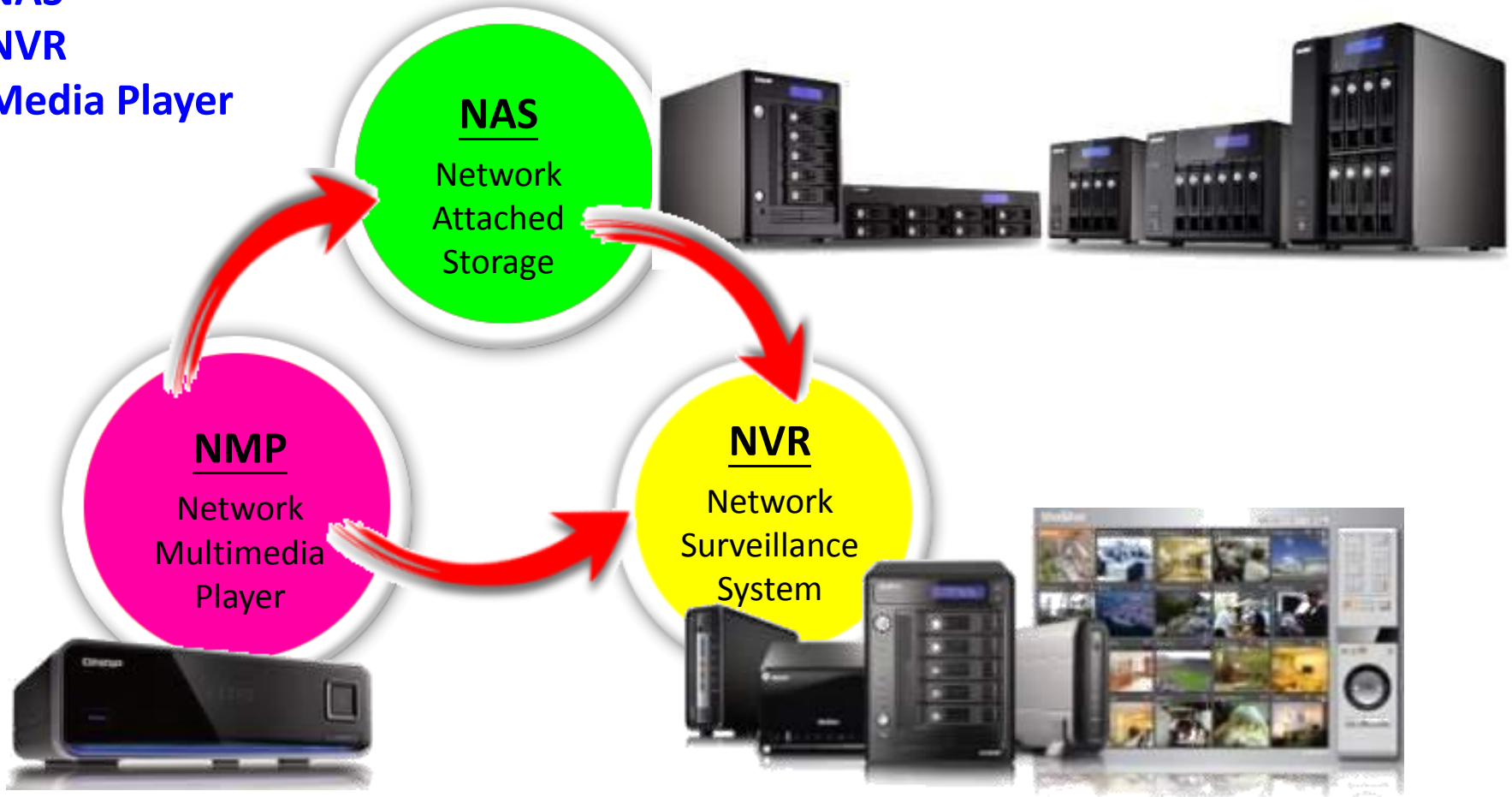
EMI Lab

QNAP

QNAP Core Technology

QNAP is one of the few NAS suppliers who owns three core technology ---

- ✓ **NAS**
- ✓ **NVR**
- ✓ **Media Player**



QNAP Product Lines Overview

1. Turbo NAS Series (Network Attached Storage)

Home & SOHO NAS

-All-in-one Home & SOHO NAS Series

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

Intel-based iSCSI NAS for SMB & Enterprise Entry

-High Performance NAS with iSCSI

TS-239 Pro TS-439 Pro TS-509 Pro TS-639 Pro TS-809 Pro TS-439U series TS-809U-RP

2. QNAP NVR Series (Network Video Recorder)

Home NVR

NVR-104
NVR-101
(4-CH)

SOHO/ SMB NVR:

- 8-CH~12CH NVR

VS-101 VS-201 VS-2008/ 2012

Enterprise NVR:

- 16~40 CH NVR

VS-4016U VS-5012/ 5020 VS-8024/32/40 Series

3. QNAP NMP Series (Network Multimedia Player)

Home NMP

NMP-1000

Recognition from Media around the World -1

QNAP TS-809 Pro & TS-809U-RP are powered by Intel 2.8GHz CPU and 2GB DDRII memory, a powerful NAS system designed for business users.

- Dual Gigabit LAN ports
- LCD panel for first installation (Touch-N-Go)
- RAID 0/1/5/6/5 + hot spare/JBOD
- Online RAID Capacity Expansion
- Online RAID Level Migration
- Wake on LAN & Schedule Power on/off
- 2.5” & 3.5” HDD Dual Support

Recognition from Media around the World -2

Tempo Award

Gold Award

Best Performance

QNAP TS-439 Pro & TS-639 Pro are powered by **Intel 1.6GHz CPU** and **1GB DDRII memory**, a powerful NAS system designed for business users.

- Dual Gigabit LAN ports
- LCD panel
- RAID 0/1/5/6/5 + hot spare/JBOD
- Online RAID Capacity Expansion
- Online RAID Level Migration
- Wake on LAN & Schedule Power on/off
- 2.5" & 3.5" HDD Dual Support

QNAP

Recognition from Media around the World -3

QNAP TS-509 Pro is powered by Intel 1.6GHz CPU and 1GB DDRII memory, a powerful NAS system designed for business users.

- Dual Gigabit LAN ports
- LCD panel for first installation (Touch-N-Go)
- RAID 0/1/5/6/5 + hot spare/JBOD
- Online RAID Capacity Expansion
- Online RAID Level Migration
- Wake on LAN & Schedule Power on/off
- 2.5” & 3.5” HDD Dual Support

Best Performance
Top Hardware
Best Network Attached Storage (NAS) Device
Gold Award
Best professional storage
Editor's Choice
Golden Tachometer Award
Editors' Choice
Golden Award
Plus Punt
Recommended
Gold Award
Product of the Year
Pleiades Award
Performance No.1
The First Recommended
Editor's Choice
Recommended
High Performance Award
Editor's Choice
Original Design
Best of the Year 2008
Power Award

Recognition from Media around the World -4

QNAP TS-119/219/219P are all powered by Marvell 1.2GHz CPU and 512MB DDRII memory, a powerful NAS system designed for home and SOHO users.

- 2-Bay Hot-swappable (TS-219/219P only)
- Exclusive Q-RAID 1 (TS-119 only)
- RAID 0/1/JBOD (TS-219/219P only)
- Online RAID Capacity Expansion (TS-219/219P only)
- Online RAID Level Migration (TS-219/219P only)
- Schedule Power on/off

Product of the year

PC Go Excellent

Silver Tachometer Award

Excellent Hardware

Gold Award

Recommended

Recommended

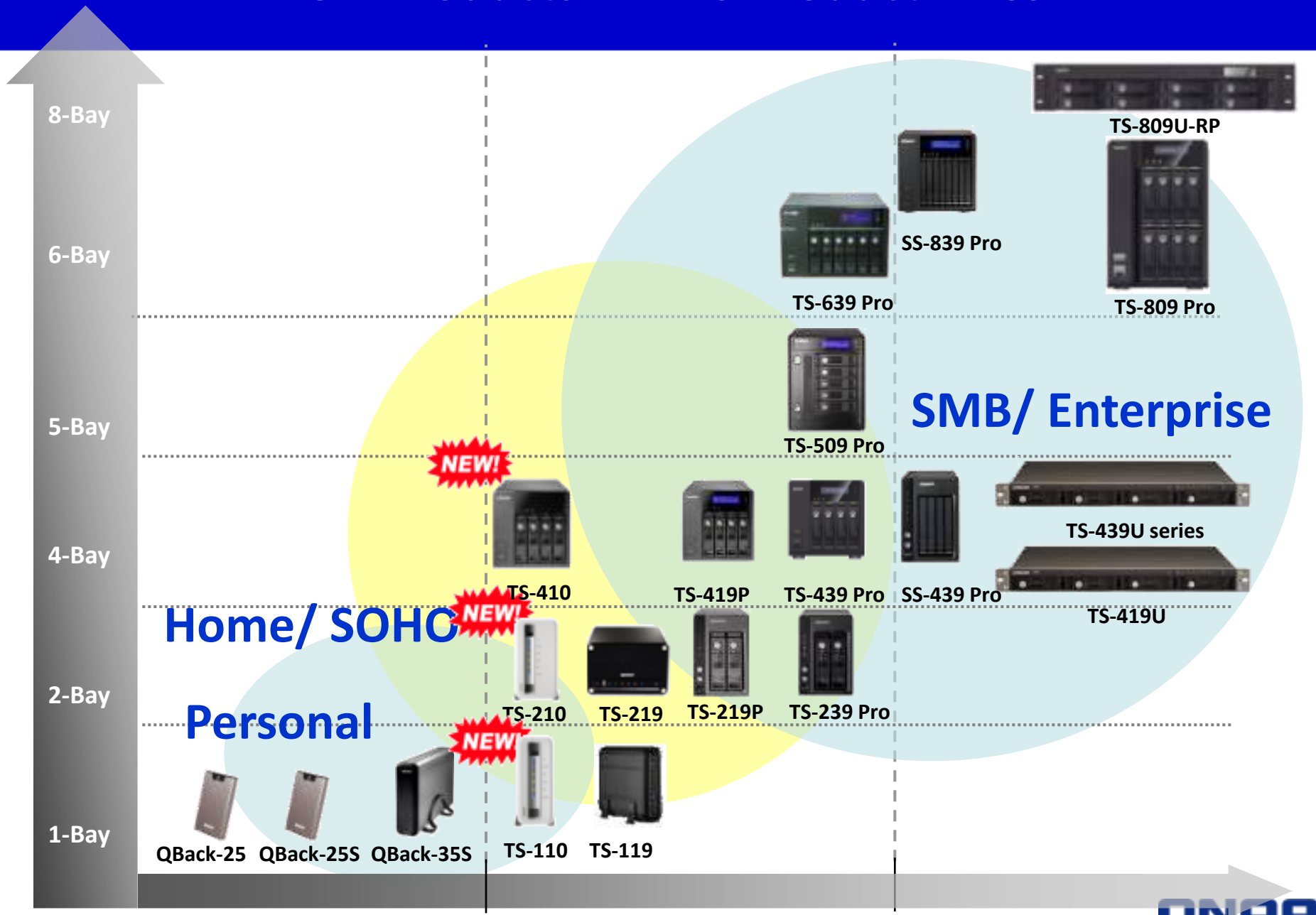
Best Test

Best Performance

Top Rank

Best Buy

New Products in NAS Product Lines



Overview of SOHO and Home NAS: TS-110 (1-Bay)

TS-110

• The TS-110 is the 1-bay NAS designed for entry-level SOHO and Home users who are eager for a NAS of **powerful all-in-one features, excellent appearance, low power consumption and high reliability**.

• Powered by **Marvell 800MHz CPU** and **256MB DDRII memory**, it is **the best price performance ratio 1-bay NAS** in current SOHO and Home NAS market.

• **Exclusive Q-RAID 1 for higher redundancy**

• Configurable One Touch Copy Button offers more backup convenience

• **3 x USB 2.0 ports** & **1 x eSATA port** supported for high expandability!

Overview of SOHO and Home NAS: TS-210 (2-Bay)

TS-210

• The TS-210 is the 2-bay NAS designed for entry-level SOHO and Home users who are eager for a NAS of **powerful all-in-one features**, **excellent appearance**, **low power consumption and high reliability**.

• Powered by **Marvell 800MHz CPU** and **256MB DDRII memory**, it is **the best price performance ratio 2-bay NAS** in current SOHO and Home NAS market.

• **RAID 0/ 1, single, JBOD configuration supported**.

• Configurable One Touch Copy Button offers more backup convenience

• **3 x USB 2.0 ports** supported for high expandability!

Overview of SOHO and Home NAS: TS-410 (4-Bay)-1

TS-410

• The TS-410 is the **4-bay**, **hot-swappable** network-attached storage server with **iSCSI** dedicated to the SOHO and home users who need a mass storage center to store and share huge amount of digital data.

• Powered by **Marvell 800MHz CPU** and **256MB DDRII memory**, it is **the best price performance ratio** 4-bay NAS for multiple applications and concurrent data access.

• **Online RAID capacity expansion, online RAID level migration,** and **RAID Recovery**

• **RAID 0/ 1/ 5/ 6/ 5+hot spare, single, JBOD configurations** are supported.

• Affordable yet Powerful iSCSI Solution: **Built-in iSCSI target** service, **Thin provisioning**, **Virtual disk for storage expansion**!!!

Overview of SOHO and Home NAS: TS-410 (4-Bay)-2

TS-410

• The NAS **supports 2.5" and 3.5" SATA hard drives**, and is featured with the excellent hardware design for storage expansion, high system reliability

• Configurable One Touch Copy Button offers more backup convenience

• **4 x USB 2.0 ports** and **2 x eSATA ports** are supported for high expandability!

• Dual Gigabit LAN: **Port Trunking** (7 bonding modes supported)

- **Failover**, **Load-balancing** and **Multiple IP setting**

Overview of SOHO and Home NAS: Efficient Power Solution

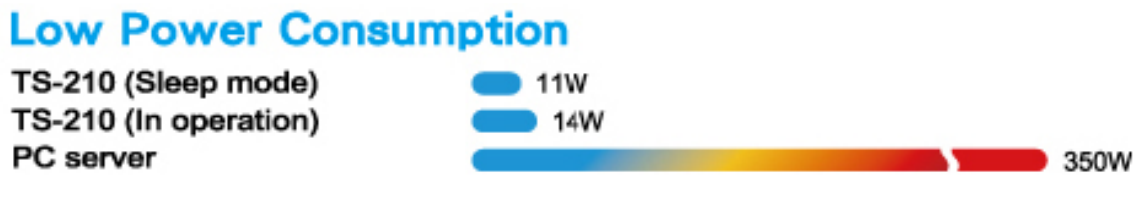
The Turbo NAS offers efficient power management solutions:

- **Hard Disk Standby** :

Users can configure the hard disks to enter standby mode if there is no disk access within the specified period.

- **Schedule power on/ off (max. 15 sets):**

The flexible schedule power on/off feature helps users to manage the NAS server's up time according to the demands.



Dominant Features of Turbo NAS

- CoverFlow-like AJAX Web Interface
- All-in-one NAS Server Application
- Advanced RAID and Disk Management
  - Online RAID Capacity Expansion*
  - Online RAID Level Migration*
  - HDD S.M.A.R.T.
  - RAID Recovery*
- Affordable yet Powerful iSCSI Solution
  - Built-in iSCSI Target
  - Thin Provisioning
  - Virtual Disk for Storage Expansion
- Network Service Discovery
- Comprehensive Log Systems
- Policy-based Automatic IP Blocking
- The Most Complete Backup Solution
- Surveillance Station
- QPKG Software Expansion Platform
- and more…

* For TS-410 only

QNAP

CoverFlow-like AJAX Web Interface

Turbo NAS Firmware V3

Bring you the best use experience with the AJAX technology

QNAP All-in-one Turbo NAS Application

Environment Friendly
Quiet
Power-saving

QNAP

All-in-one NAS Applications for Digital Home

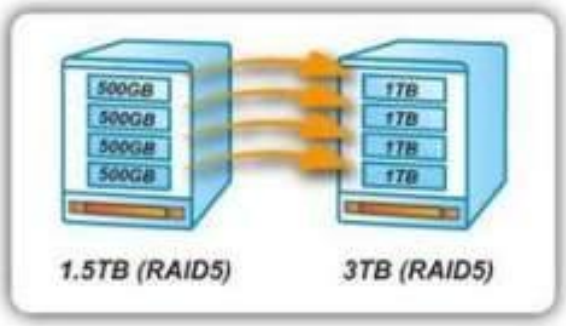
Cinema-Grade Digital Home Multimedia Center

The Turbo NAS can work as **a powerful multimedia storage center** to store and share your digital data. Meanwhile, for those cherished HD videos, pictures and music can also be displayed on your HDTV via DMA, such as QNAP NMP-1000 (Network Multimedia Player). It provides you a better watching atmosphere and achieve the cinema-grade enjoyment.

Advanced RAID and Disk Management

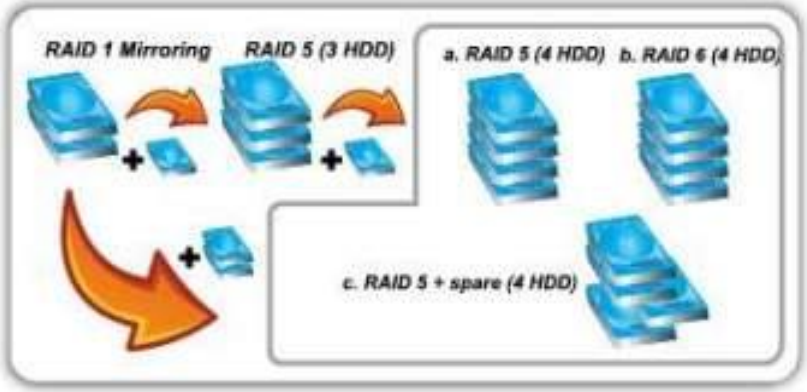
Online RAID Capacity Expansion *

- Online RAID Capacity Expansion enables users to flexibly expand the storage capacity with all the data reserved.
- Replace the hard drives on Turbo NAS Series step by step to increase the storage capacity.



Online RAID Level Migration *

- Add a hard drive to the disk configuration and migrate to higher RAID configuration for higher level of redundancy.
- Online RAID Level Migration allows users to transfer and upgrade the RAID level settings easily.

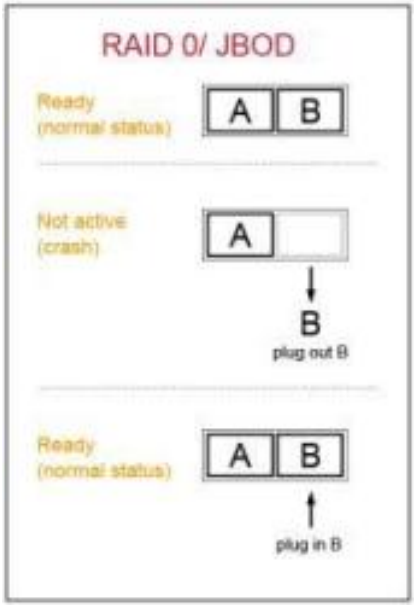


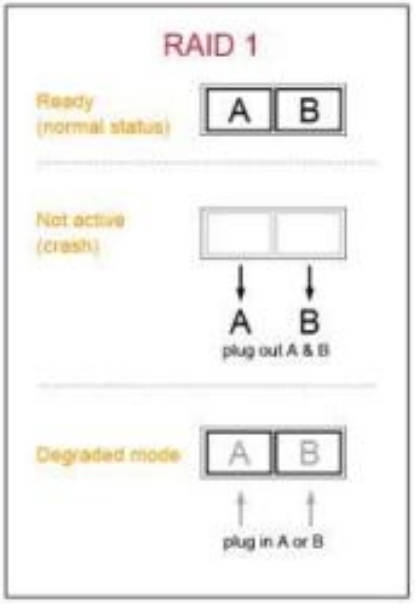
* For TS-410 only

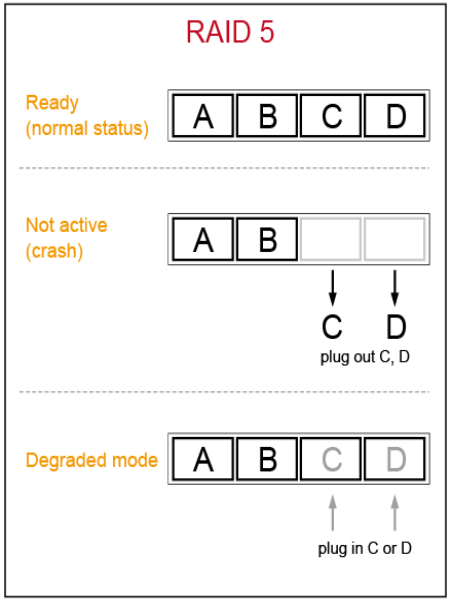
RAID Recovery

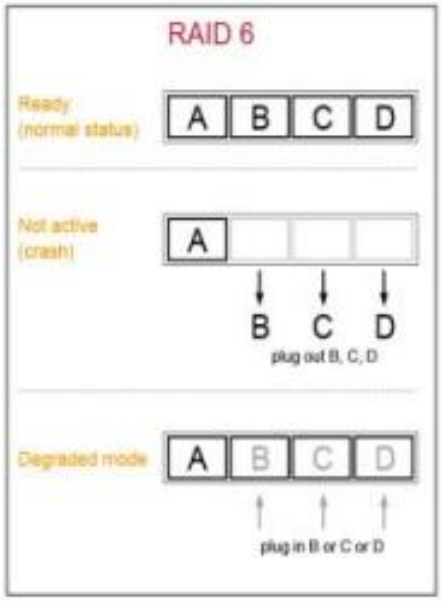
RAID Recovery*

RAID Recovery is the QNAP exclusive technology. It can recover failed RAID 1/ 5/ 6 to the degraded mode and failed RAID 0 and JBOD to the normal state.









* TS-410 only

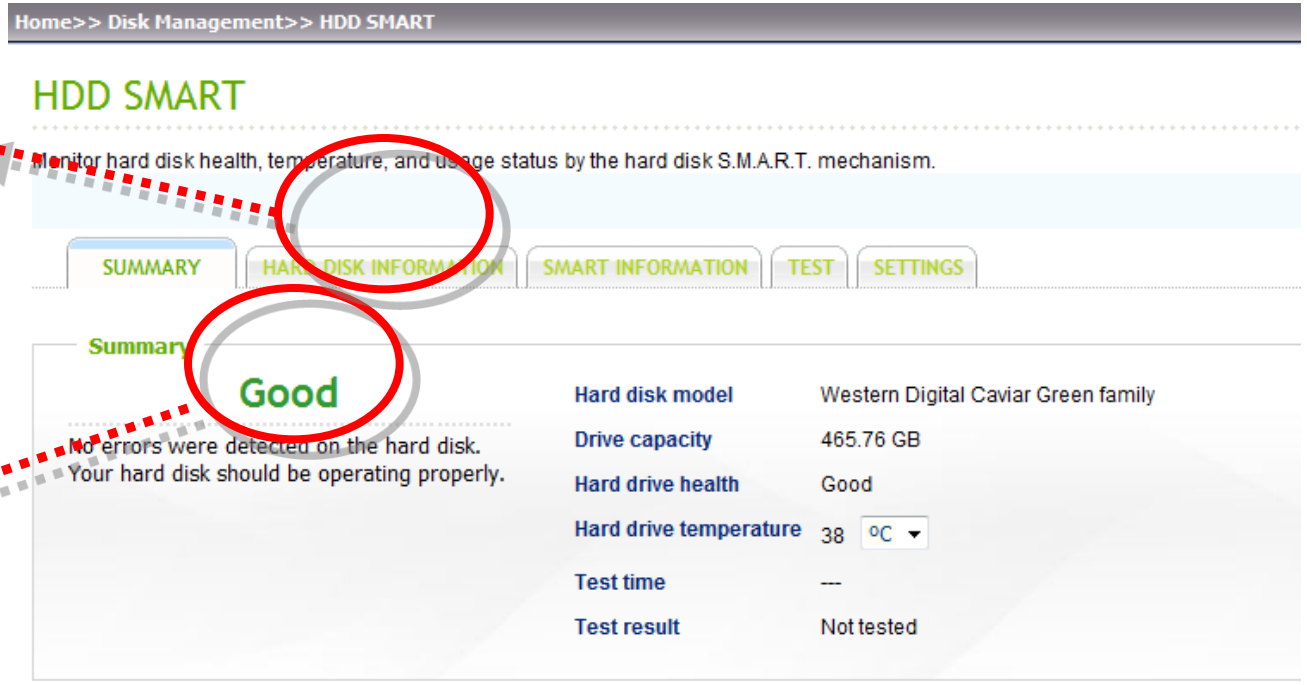
Hard Drive Protection: HDD S.M.A.R.T.-1

HDD S.M.A.R.T.

HDD S.M.A.R.T. (Self-monitoring Analysis and Reporting Technology) offers a quick overview of the hard drive status which enables users to monitor the hard drives and check potential problems. This tool helps prevent unexpected HDD failure and avoid critical data loss.

Select the hard disk to check the HDD health status.

In the summary page, users can view the health status of the selected drive.



Hard Drive Protection: HDD S.M.A.R.T. -2

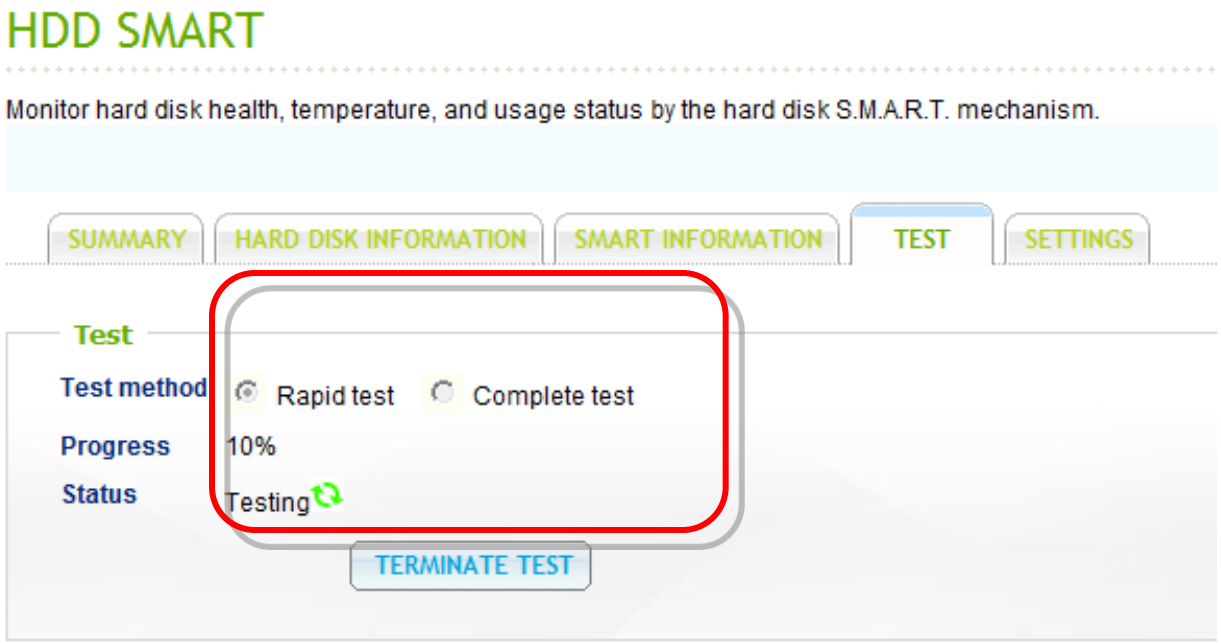
The S.M.A.R.T. information helps the server managers to easily monitor the health status of the hard disks.

SUMMARY | HARD DISK INFORMATION | SMART INFORMATION | TEST | SETTINGS

ID	Description	Value	Worst Value	Threshold	Raw value	Status
1	Raw_Read_Error_Rate	200	200	051	12	OK
3	Spin_Up_Time	142	141	021	5883	OK
4	Start_Stop_Count	100	100	000	253	OK
5	Reallocated_Sector_Ct	200	200	140	0	OK
7	Seek_Error_Rate	200	200	000	0	OK
9	Power_On_Hours	098	098	000	1633	OK
10	Spin_Retry_Count	100	100	000	0	OK
11	Calibration_Retry_Count	100	253	000	0	OK
12	Power_Cycle_Count	100	100	000	80	OK
192	Power-Off_Retract_Count	200	200	000	10	OK
193	Load_Cycle_Count	200	200	000	253	OK
194	Temperature_Celsius	109	091	000	38	OK
196	Reallocated_Event_Count	200	200	000	0	OK
197	Current_Pending_Sector	200	200	000	0	OK
198	Offline_Uncorrectable	200	200	000	0	OK
199	UDMA_CRC_Error_Count	200	200	000	0	OK

Hard Drive Protection: HDD S.M.A.R.T. -3

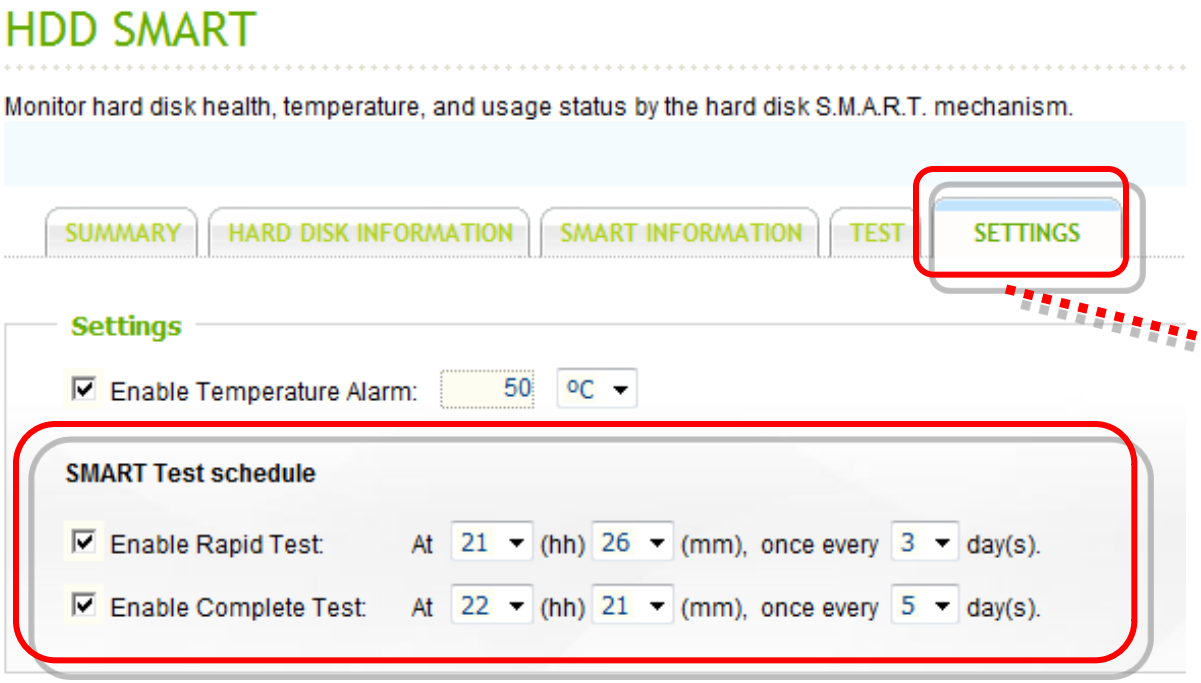
Users can select to execute the diagnostic testing by “rapid” or “complete” test. The NAS will provide a health status result after the testing process is done.



- Rapid Test: Check the first 1.5 GB of the hard disk drive
- Complete Test: Check the complete hard disk drive

Hard Drive Protection: HDD S.M.A.R.T. -4

Users can set the schedule for S.M.A.R.T. test (rapid or complete) to ensure the health of the hard disks. The regular job can be done by the NAS automatically according to the configured policy.



Alert emails will be automatically sent to server managers in case of any potential problems

Hard Drive Protection: Bad Block Scan & Disk Checking

Advanced Hard Drive Protection (HHS)

The embedded HHS (HDD health scan) technology help users discover the abnormal issue of hard disks to prevent disaster. It is a dual insurance for valuable data on the NAS.

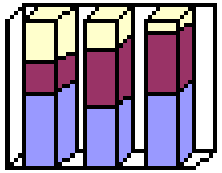
- Bad Block Scanning reports bad blocks of a HDD.
- Disk Checking performs Linux file system checking and fixes any potential errors.

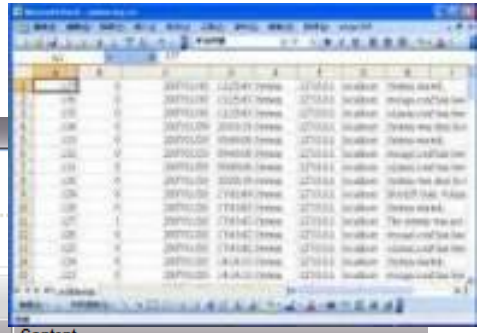
Comprehensive Event Log System

Comprehensive Event Log System

Detailed logs of file-level data access to the Turbo NAS via Samba, FTP, AFP, HTTP(HTTPS), Telnet, iSCSI and SSH, and network services accessed by the online users are all recorded.

IT administrators can easily control detailed logs of each file (who, when, and what actions were done).





Home>> System Administration>> System Logs

System Logs

SYSTEM EVENT LOGS | SYSTEM CONNECTION LOGS | ON-LINE USERS | SYSLOG

All events | Clear | Save

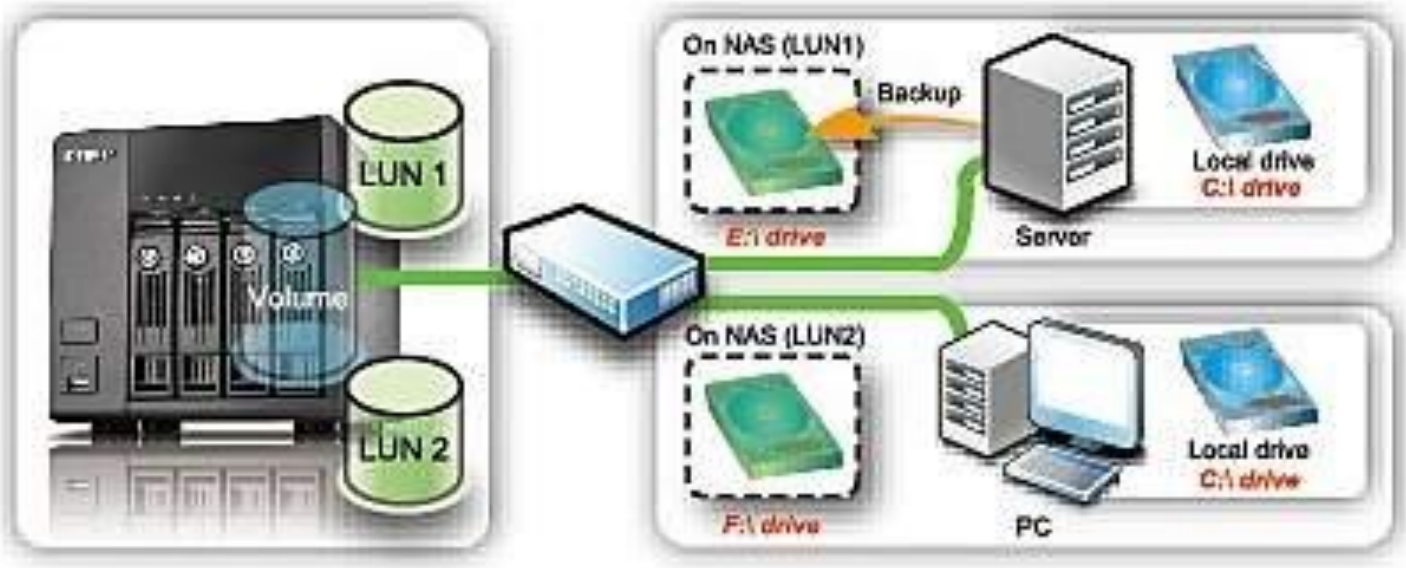
Type	Date	Time	Users	Source IP	Computer name	Content
⛔	2009-05-25	13:39:33	System	127.0.0.1	localhost	Failed to synchronize the time from NTP server.
⛔	2009-05-22	20:36:05	System	127.0.0.1	localhost	Failed to synchronize the time from NTP server.
⚠	2009-05-21	02:22:10	System	127.0.0.1	localhost	Re-launch process [nvrd].
⚠	2009-05-21	01:55:09	System	127.0.0.1	localhost	Re-launch process [nvrd].
⛔	2009-05-19	15:29:00	System	127.0.0.1	localhost	Failed to synchronize the time from NTP server.
⚠	2009-05-19	10:08:00	System	127.0.0.1	localhost	Re-launch process [_thttpd_].
⚠	2009-05-19	09:28:58	System	127.0.0.1	localhost	Re-launch process [nvrd].
ℹ	2009-05-19	09:25:12	System	127.0.0.1	localhost	[Mirror Disk Volume: Drive 1 2] Recovering journal.
ℹ	2009-05-19	09:25:01	System	127.0.0.1	localhost	System started.
ℹ	2009-05-19	09:22:30	System	127.0.0.1	localhost	System was shut down on Tue May 19 09:22:30 CST 2009.

There are 161 events.Displays 10 records per page.

The logs can also be exported as Excel (csv) file for analysis.

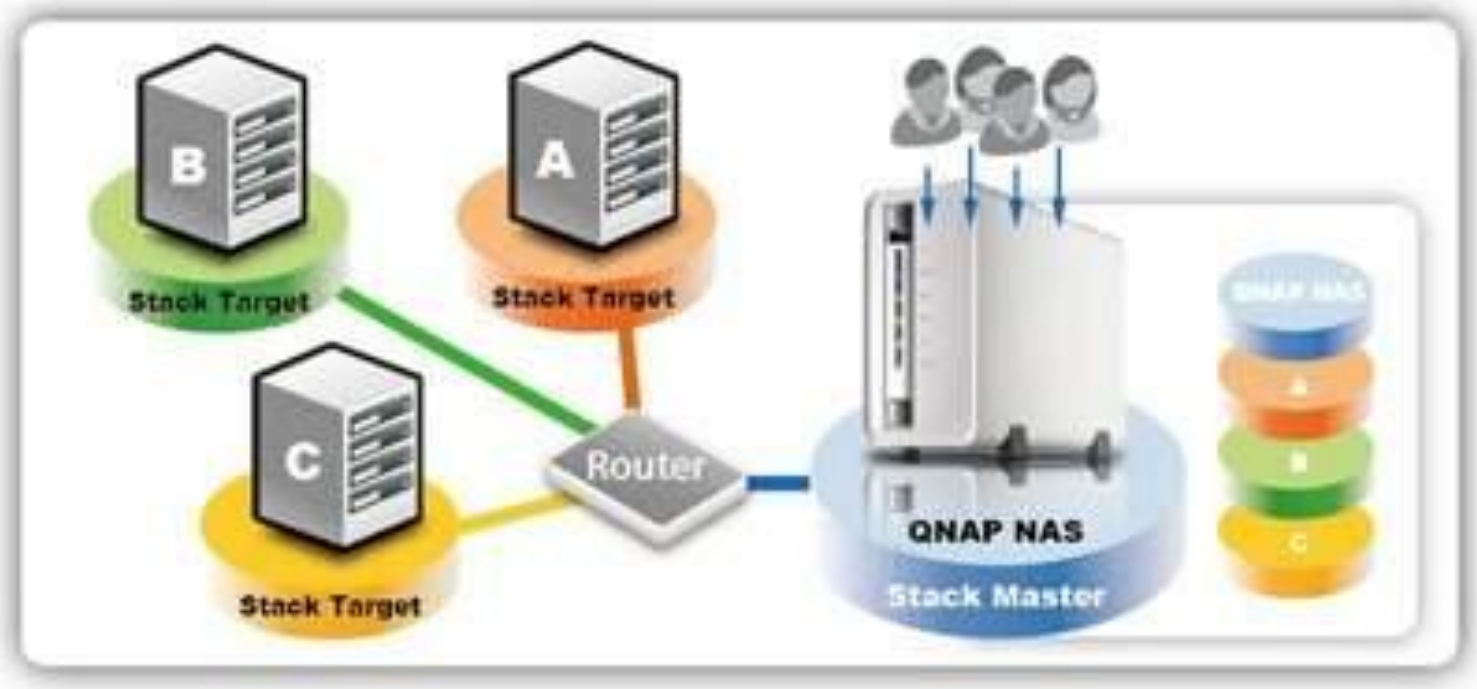
Flexible Built-in iSCSI Target Service

- With the built-in iSCSI target feature, the NAS can be an ideal solution for backup or storage expansion. SOHO and home users can easily create dedicated virtual drives (up to 8 iSCSI target LUN) on the NAS for their PCs. The iSCSI drives on the NAS can be formatted as file system and used as local drives.



Virtual Disk for Storage Expansion

The VDD (Virtual Disk Drive) feature is supported on the Turbo NAS that you can use the built-in iSCSI initiator to connect to other iSCSI targets on the network to expand the storage capacity of the NAS.



Network Service Discovery

UPnP Discovery Service

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

Bonjour

Bonjour uses industry standard IP protocols to allow devices to automatically discover each other without the need to enter IP addresses or configure DNS servers, and which makes your NAS becomes more compatible with Mac OS X.

The Most Complete Backup Solution-1

Encrypted Remote Replication

1. NAS-to-NAS Backup over the Network
2. Advanced Encrypted Remote Replication

QNAP Backup Software - NetBak Replicator

USB one touch copy

Standard Rsync supported

3rd party backup software supported

The Most Complete Backup Solution-2

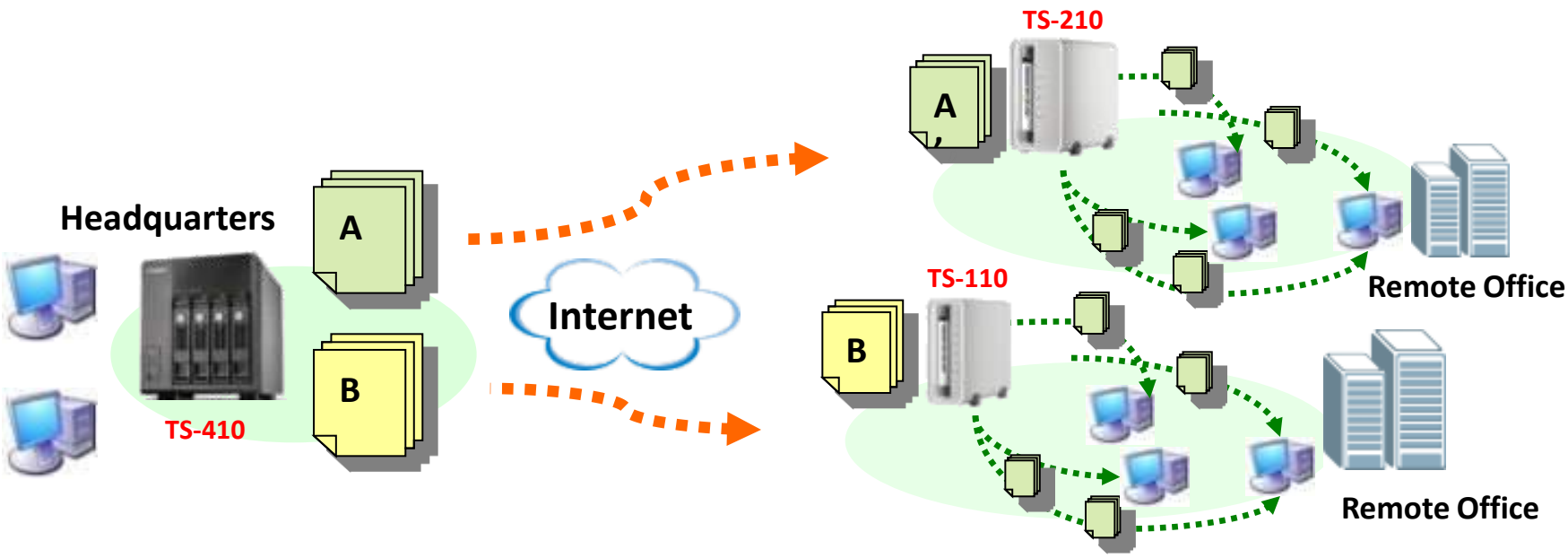
Encrypted Remote Replication

1. NAS-to-NAS Backup over the Network

Files can be backed up from the Turbo NAS to other QNAP NAS products in remote locations.

2. Advanced Encrypted Remote Replication

Advanced options including data compression, block level incremental backup, and data synchronization which save tremendous bandwidth and time for data backup.



The Most Complete Backup Solution-3

Standard Rsync supported

Data on the NAS can be backed up to or from another Turbo NAS or Rsync server over the network securely.

3rd party backup software supported

QNAP's Turbo NAS provides a great alternative for tape replacement. Several well-known backup software have been verified that they could smoothly work with QNAP NAS server.

1. CA BrightStor ARCserve Backup
2. Acronis True Image
3. EMC Retrospect
4. Symantec Backup Exec
5. LaCie SilverKeeper (backup)

The Most Complete Backup Solution-4

QNAP Backup Software - NetBak Replicator

The intelligent automatic backup software- NetBak Replicator is provided for the NAS users to perform real-time synchronization or schedule backup from multiple PCs to the NAS. There is no license issue about user account limitation.

Select Backup Destination

Backup Log: Record Errors

Easy Selection: Select All or My Document

Backup Level: Folder or File Level

Backup option: Real Time/ Schedule/Instant

QNAP

Surveillance Station

Live Audio & Video Monitoring, Recording and Playback over the Internet

Application:

- Remote monitoring of childcare situation,
- Elder care,
- Home and office security,
- long-term environmental monitoring

QPKG Software Expansion Platform

Explore the unlimited possibilities of your QNAP NAS!

The QPKG is a convenient platform developed by QNAP to enable users to install lots of useful software applications. The software developed from the users and community worldwide

By a few simple clicks and uploading on the user-friendly GUI, all these applications can be installed. There is no need to go through the hassles of any complicated programming.

QNAP NAS Community Forum

QNAP forum is the largest NAS community with more than 27,300 members (September, 2009). QNAP users can share experience, find answers, get direct support and receive the latest update information here.

Appendix

A. All-in-one Server: File Server -1

File Server

1. Sharing File Across Windows, Mac, and Linux:

QNAP's Turbo NAS supports NFS, AFP, and SMB/CIFS. You can share files among PCs with different OS easily!

Mac

(Mac OS X Supported!)

Linux

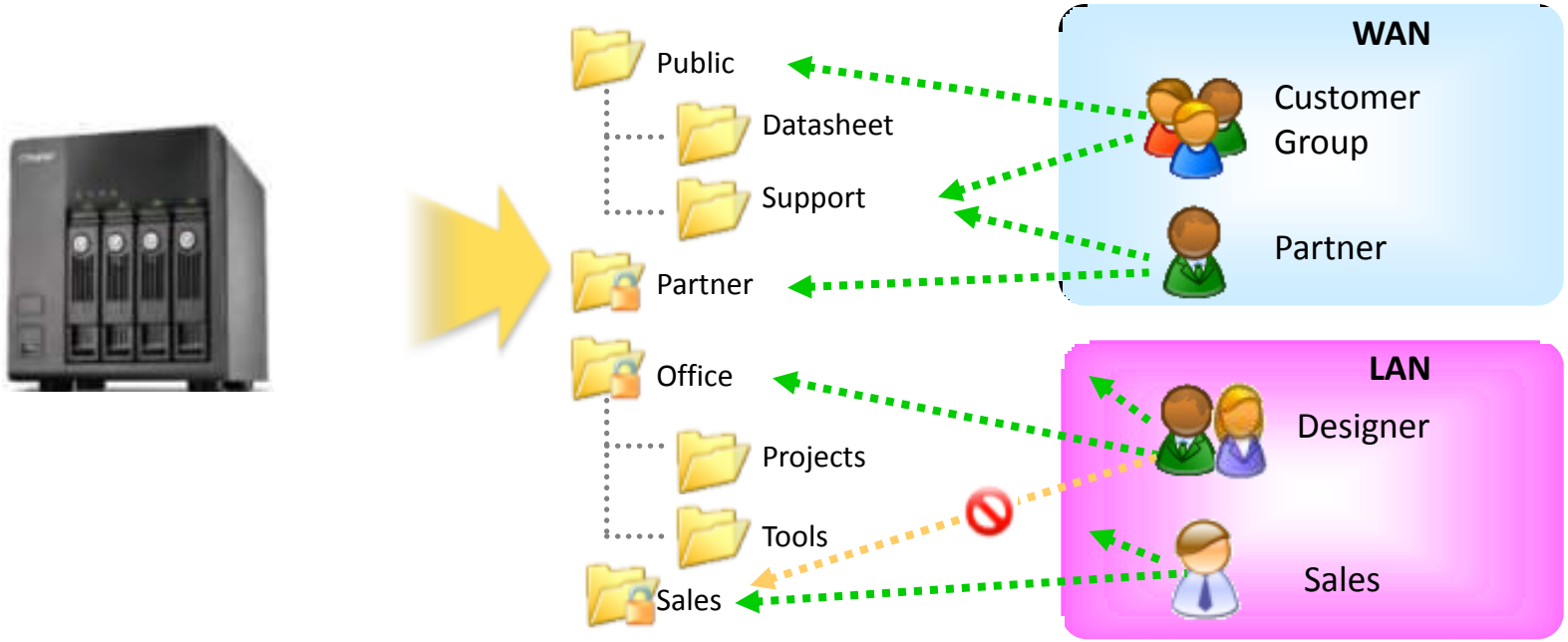
Microsoft Windows

A. All-in-one Server: File Server -2

File Server

2. Store Files with Access Right Control

Centralized management of documents. Access right of users and user groups can be configured easily. Only authorized parties can read or modify files, which greatly enhances the security of data access.

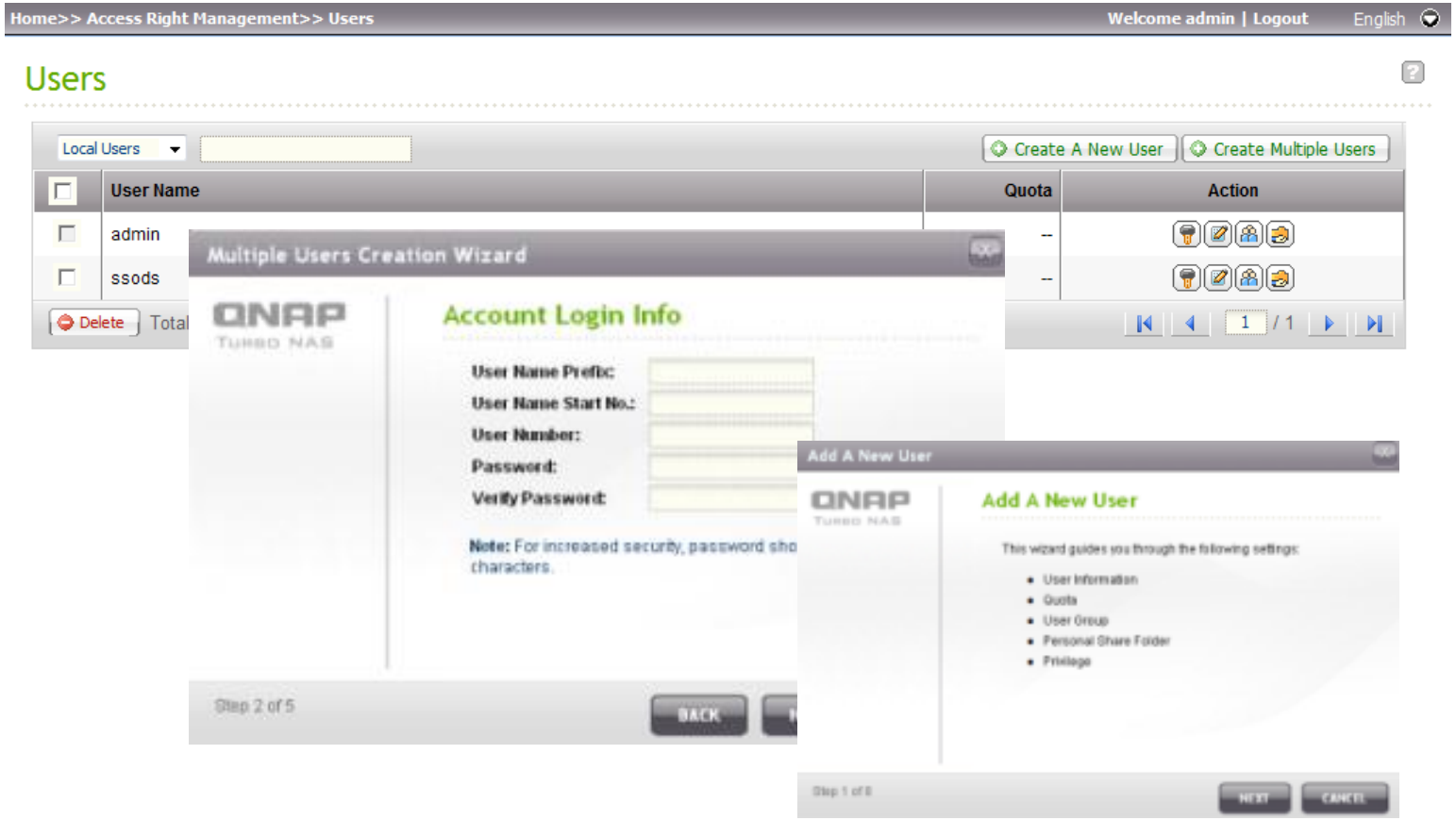


A. All-in-one Server: File Server -3

File Server

3. Easy-to-use Web-based Management Interface

You can create user ID and password, and define the authority and quota for each user by web browser easily without MIS help.

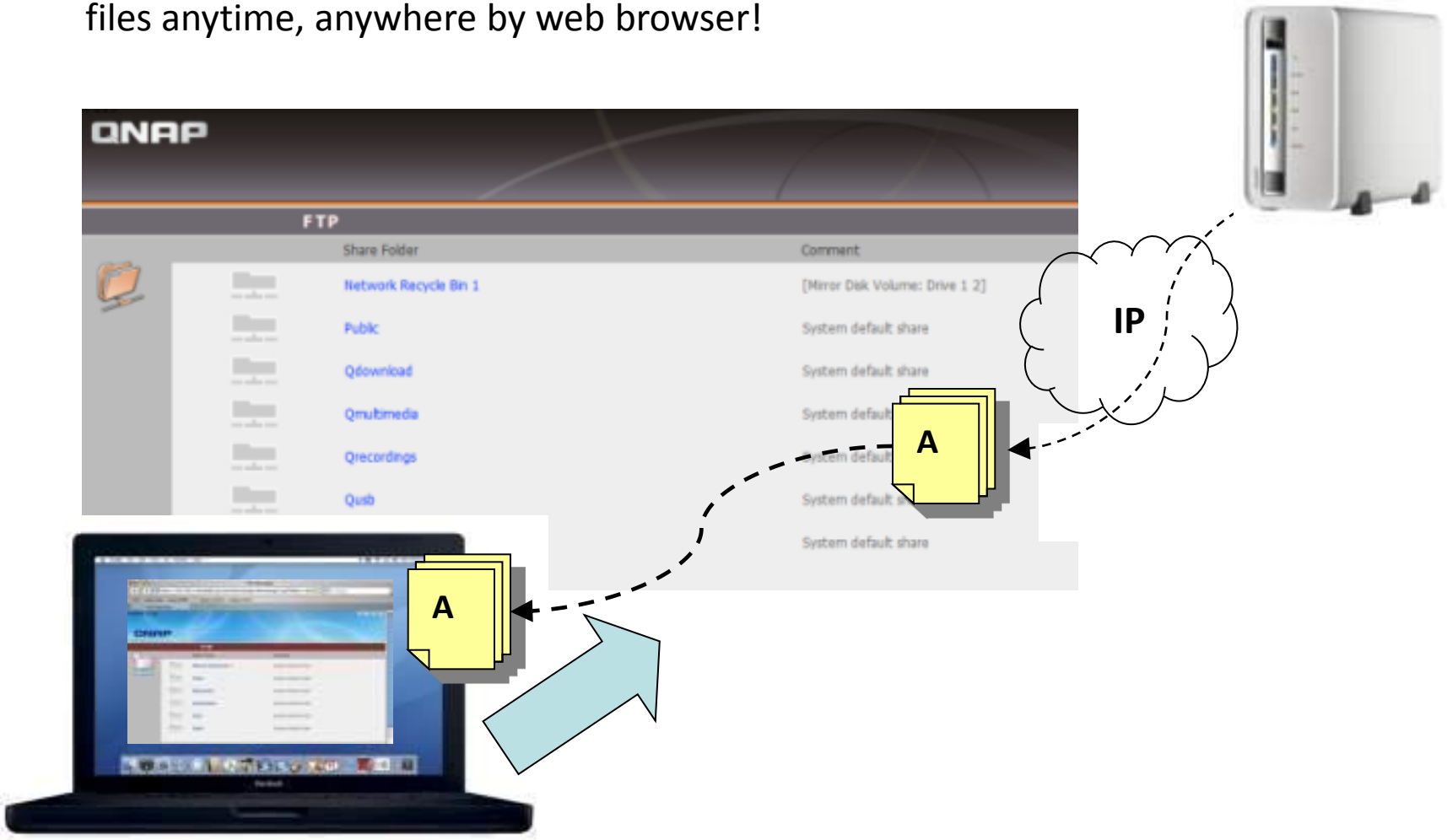


A. All-in-one Server: File Server -4

File Server

4. Web File Manager:

More than just a disk on your local network, you can also access your stored files anytime, anywhere by web browser!



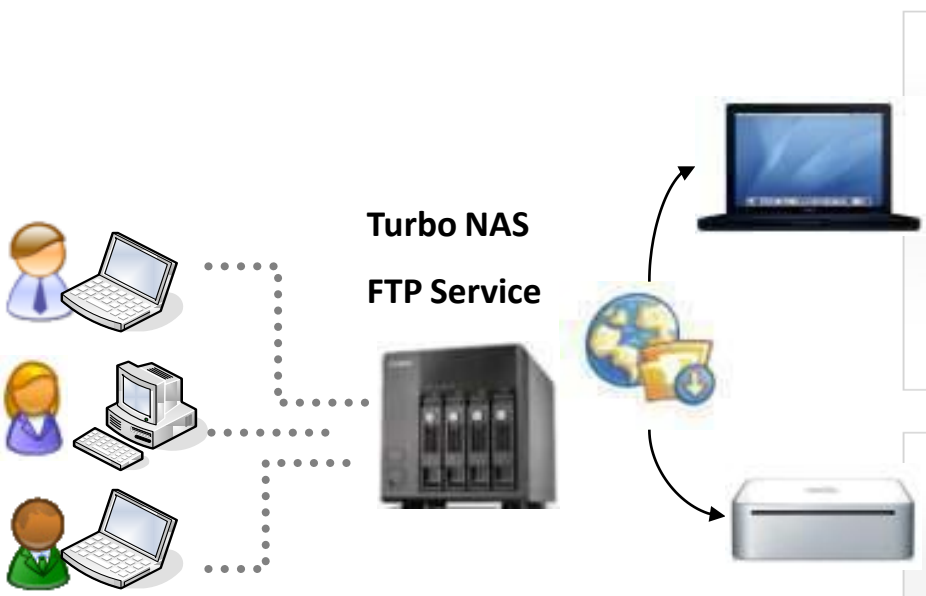
B. All-in-one Server: FTP Server -1

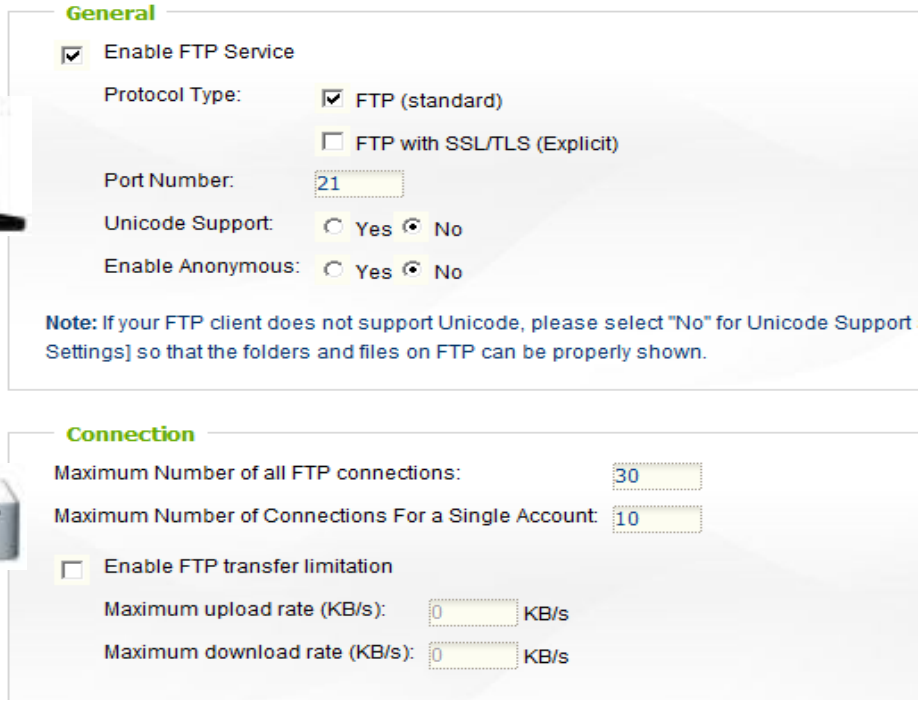
FTP Server

Having troubles with sending large files by e-mails due to the limited capacity?

1. Establish Your Own FTP Server to Share Your Files.

Just a few installation steps, you can manage the access authority of the FTP server and share your files with your customers easily!



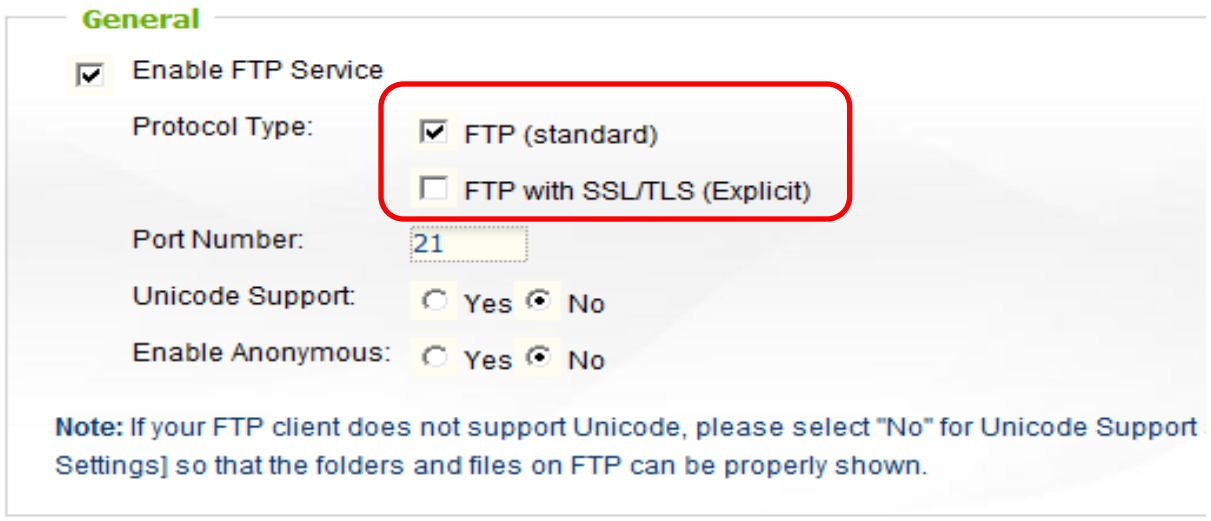


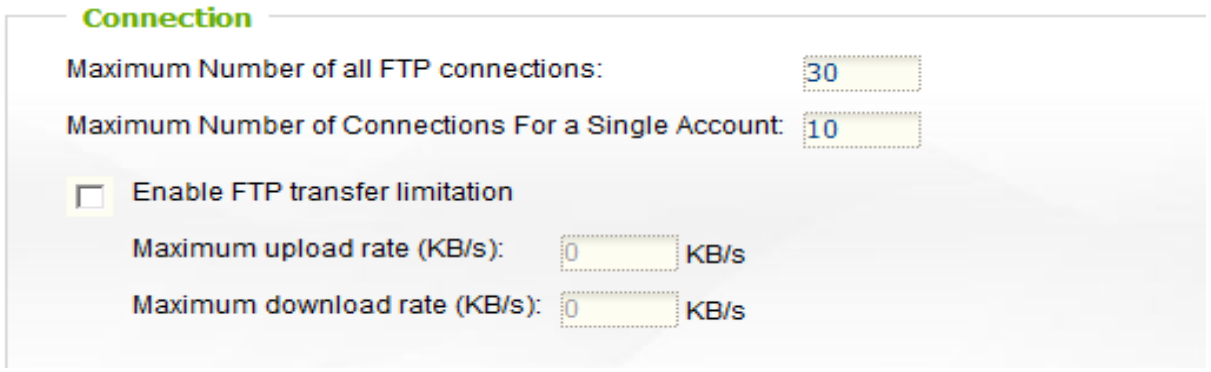
B. All-in-one Server: FTP Server -2

FTP Server

2. Sharing File over the Internet Securely

Besides access right control, the FTP server supports secure encryption (FTP over SSL/ TLS). Passive mode FTP port range setup is also supported.





QNAP

C. All-in-one Server: Web Server

Create Your Forum, Blog, and Online Store Easily

Exclusive Built-in phpMyAdmin, Joomla!, MySQL & SQLite Dual Support!

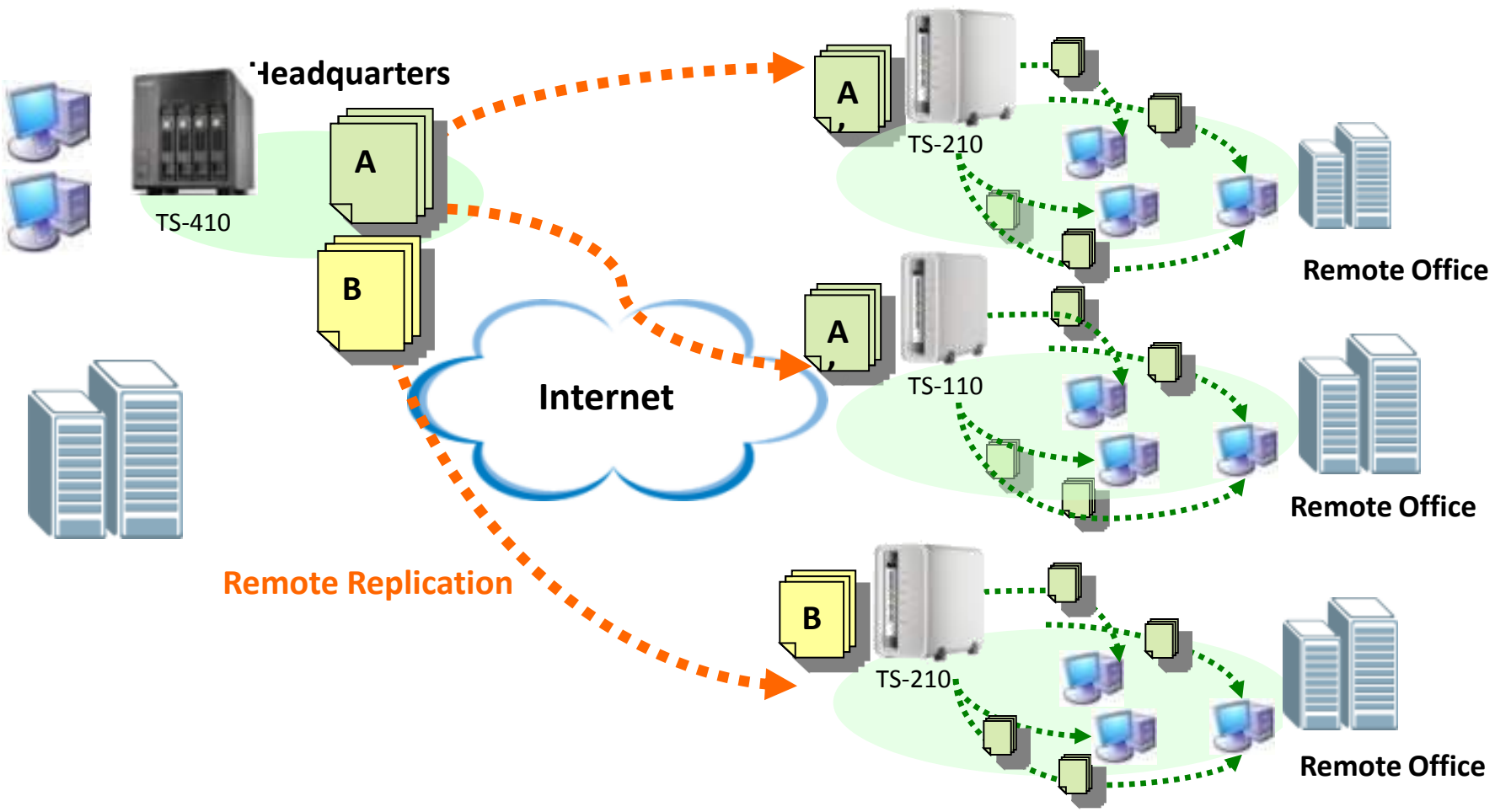
Users can either develop programs by themselves or download a variety of open-sourced applications, such as online shops, forums, blogs over the Internet.

D. All-in-one Server: Remote Replication

Remote Replication

NAS-to-NAS Backup over the Network

Files can be backed up from the Turbo NAS to other QNAP NAS products (or Rsync Servers) in remote locations.



E. All-in-one Server: MySQL Server

MySQL Server

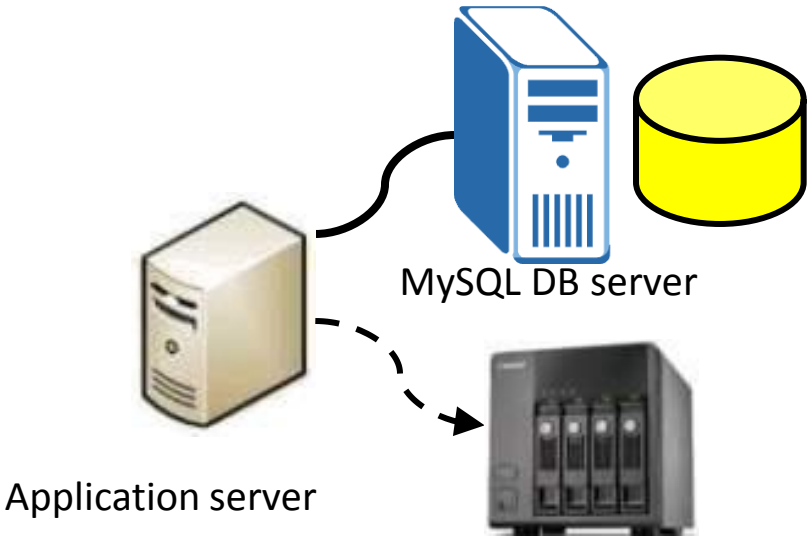
Great Solution for System Integrators

QNAP Turbo NAS can be an ideal alternative solution of standalone MySQL database server.

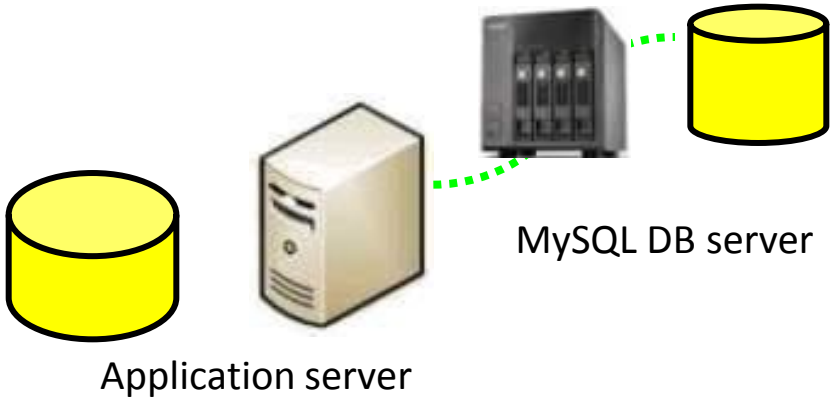
It can be flexibly applied in various deployments such as:

(1) a database server of another web server in remote site

(2) an additional backup database server to achieve system redundancy.



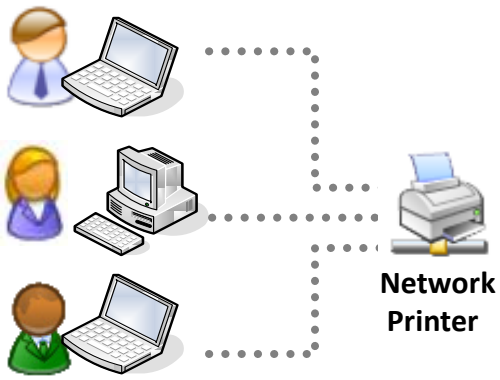
Lower investment in smaller scale deployment (SMB/SOHO)



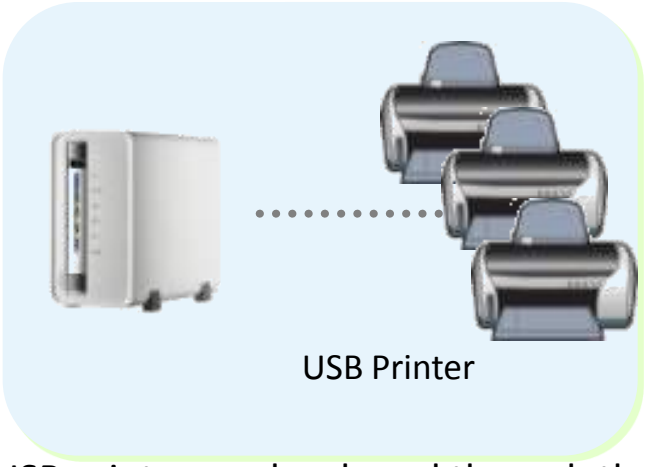
F. All-in-one Server: Printer Server

Share Your Printer Resource by Printer Server

You can share your printer device over the network without duplicating investment by simply connecting a USB printer to NAS's USB port and enabling the printer sharing function.



Small Office



USB printer can be shared through the high-speed USB 2.0 port

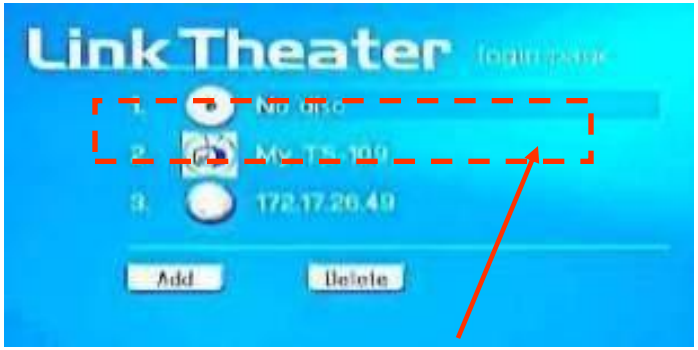
G. All-in-one Server: UPnP Media Server-1

UPnP Media Server

UPnP Media Server (with built-in TwonkyMedia Server!!!)

Turbo NAS is a perfect media storage center and it works well with DLNA (Digital Living Network Alliance) compliant media players. You can play the photos and videos on TV. In addition, you can listen to your favorite music and Internet Radio on your Hi-Fi System.

Screen on Digital Media Player



Watch Your Stored Photos on TV !!

Watch Your Stored Video on TV

QNAP

G. All-in-one Server: UPnP Media Server-2

G. All-in-one Server: UPnP Media Server-3

QNAP NAS is the first NAS can support DLNA media application for Sony PS3 & Xbox360 Game consoles!!!

You can enjoy your digital contents on your TV and Hi-Fi system by using your game console !!!

G. All-in-one Server: UPnP Media Server-4

UPnP Media Server

Easy-to-share Home Storage Center

Turbo NAS is a perfect media storage center and can also supports mobile devices for digital contents sharing.

• Sony PSP game console can becomes a high-quality wireless music player

QNAP

G. All-in-one Server: UPnP Media Server-5

UPnP Media Server

QNAP NAS can be your ideal data sharing center in digital home

Watch the stored video and photos on TV

Sony PSP (Wireless music player)

Nokia N95 (Remote Control)

QNAP NAS

H. All-in-one Server: Download Station -1

Download Station

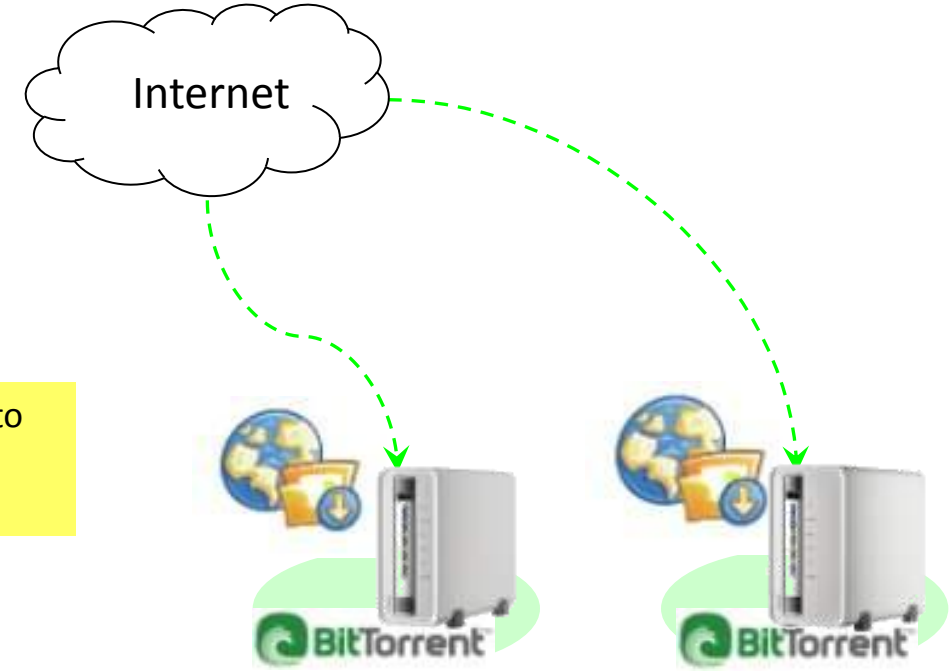
Enjoy Continuous Download Independent of PC

Turbo NAS serves as continuous BT Download (BitTorrent), FTP, or HTTP download centers without turning on your PC. The great web-based interface allows you to manage the download tasks anytime, anywhere!

1. Buy Videos from BitTorrent

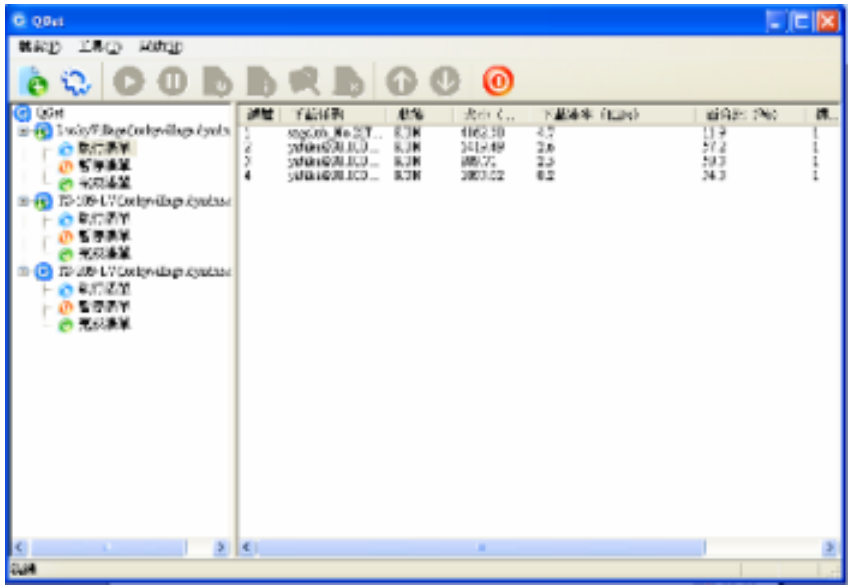
2. Remote Manage Home NAS to Download

Use Firefox Browser to access Download Station



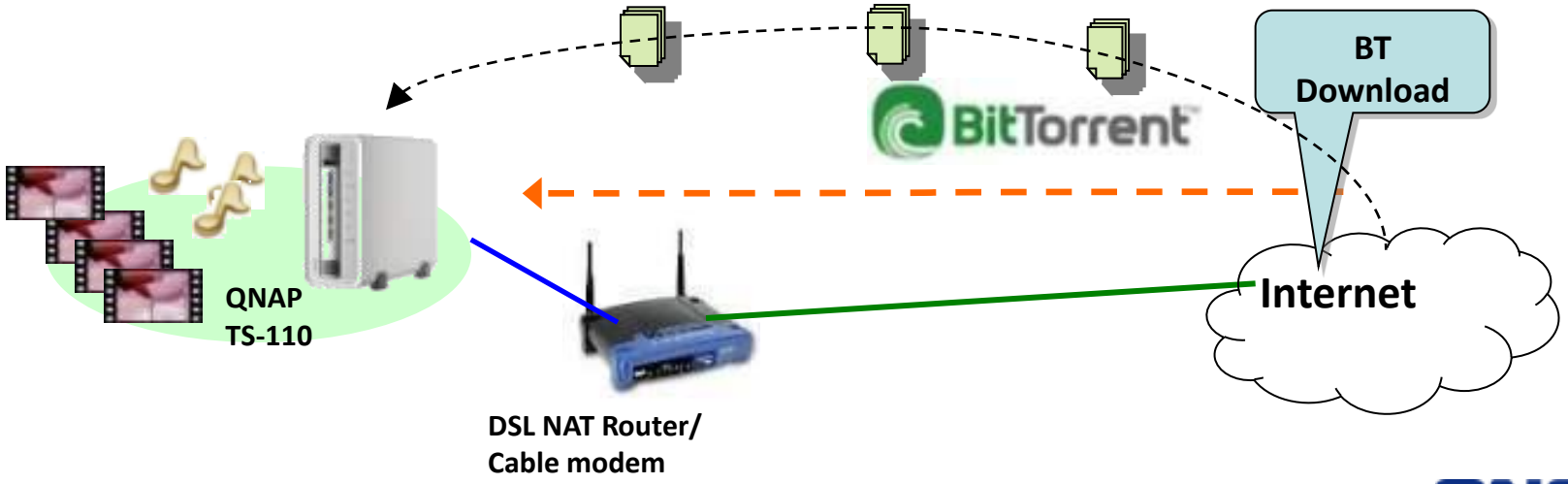
QNAP

H. All-in-one Server: Download Station - 2



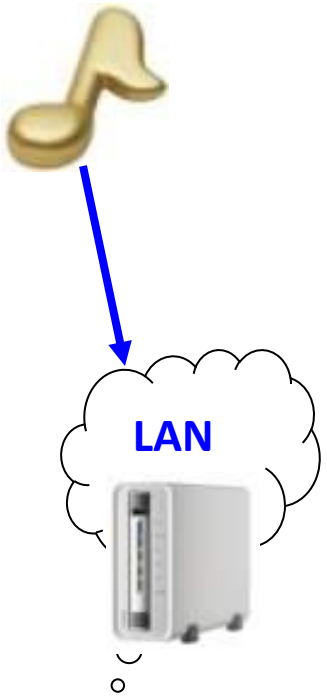
Powerful P2P download software-QGet !!!

You can simultaneously manage download tasks of multiple Turbo NAS Server in one PC!



I. All-in-one Server: iTunes Server

All your MP3 music can be collectively stored and streamed to Mac or Windows PC. Just Turn on the iTunes program and enjoy all the music around your home network!



Run the iTunes Software; Your PC Will Automatically Find the Turbo NAS and Can Play the Stored Music by iTunes Server !!!

J. All-in-one Server: Multimedia Station

Multimedia Station

Built-in On-line Album

Turbo NAS series provides the most user-friendly web interface to manage personal albums and multimedia files easily.

Directory tree: Directory shown in tree structure for easy browsing

View the video or music file by double-click the icon. Default player will be activated automatically.

File sorting: Sort by alphabet, file size, create date

File thumbnail: Show photo thumbnail or icon indicating file format

Movie or Music file: shown as icon corresponding to the file format

Viewing control: Rotate picture, zoom in, zoom out, photo slide show…etc.

Photo information: Name, resolution, date, time, camera, detail setting…etc.

K. All-in-one Server: Surveillance Station- 1

Surveillance Station

Live Audio & Video Monitoring, Recording and Playback over the Internet

Application:

- Remote monitoring of childcare situation,
- Elder care,
- Home and office security,
- long-term environmental monitoring

QNAP

K. All-in-one Server: Surveillance Station- 2

Surveillance Station

High quality video recording in MPEG4 and Motion JPEG Format

Real-time monitoring and recording for up to 30 frames/ Sec per channel

Live 2-way audio supported for real-time monitoring, and voice broadcasting

Complete recording function

- Motion Detection

  Recording is triggered when a moving object is detected by the camera.
- Continuous / Schedule recording
- Synchronized audio recording

QNAP

K. All-in-one Server: Surveillance Station- 3

Surveillance Station

- **Alarm schedule recording**

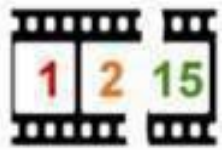
Different recording modes can be defined for different time periods, e.g. alarm recording at daytime and continuous recording at night time.

- **E-mail notification**

Alert emails will be sent to administrator immediately when a system error or emergent event takes place.

- **Standard video recording format with Time Stamp**

The recordings are saved in AVI format (codec provided) for easy playing by Windows Media Player. Time stamp on the video is provided for convenient data search and can be used as legal evidence.



- **Flexible adjustment of the length of recording files**

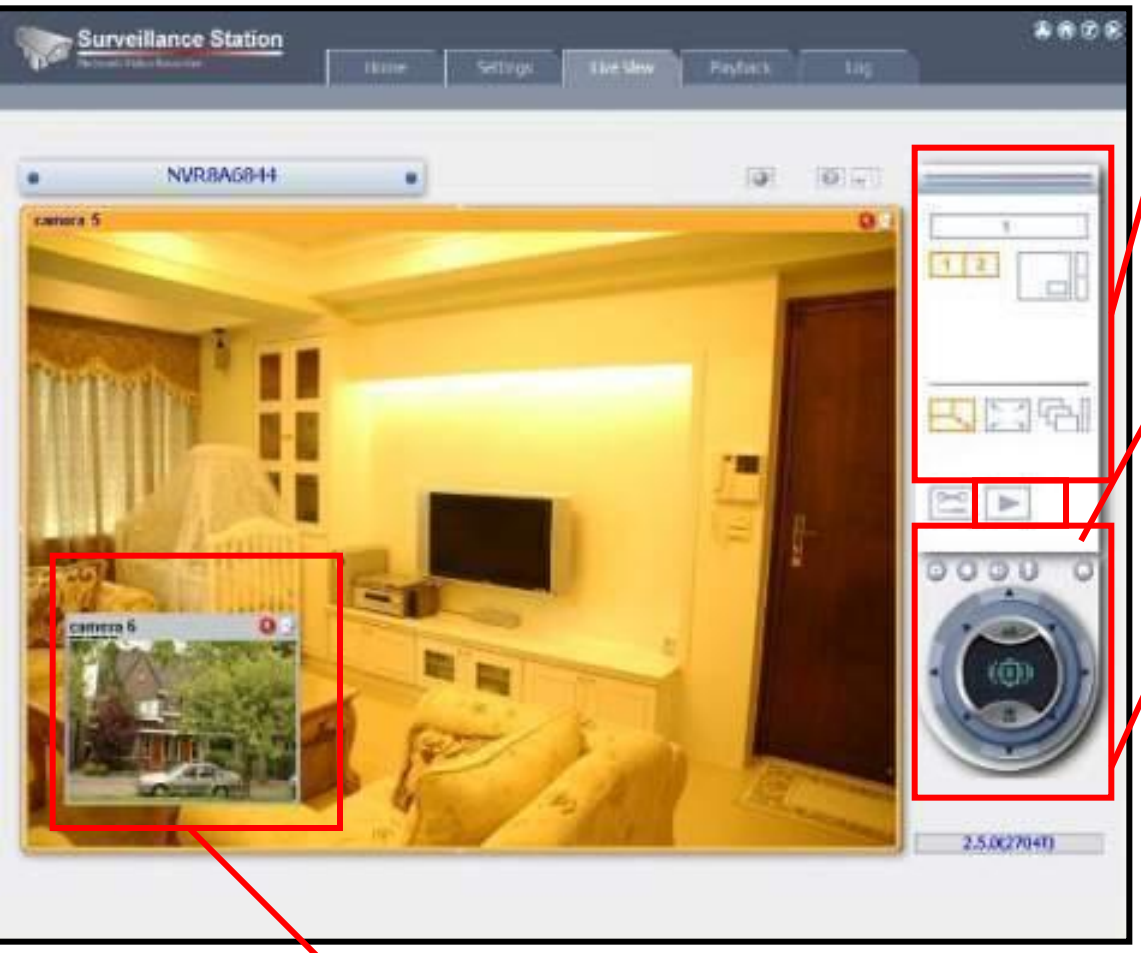
Users can adjust the length of the recording files flexibly (1-15 minutes)

QNAP

K. All-in-one Server: Surveillance Station- 4

Surveillance Station

Live real-time monitoring



Varity Live video monitoring
Single-channel, 2-channel and Picture-in-picture **(PIP)** monitoring modes are supported for flexible and key-location monitoring

Support live 2-way audio
Real-time audio and video monitoring, voice broadcasting

Smart PTZ camera control by direct clicking on the control panel
Users can zoom in/ zoom out and control camera's direction by the "**click and go**" intuitive control panel. Preset positions can be easily and precisely controlled.

QNAP

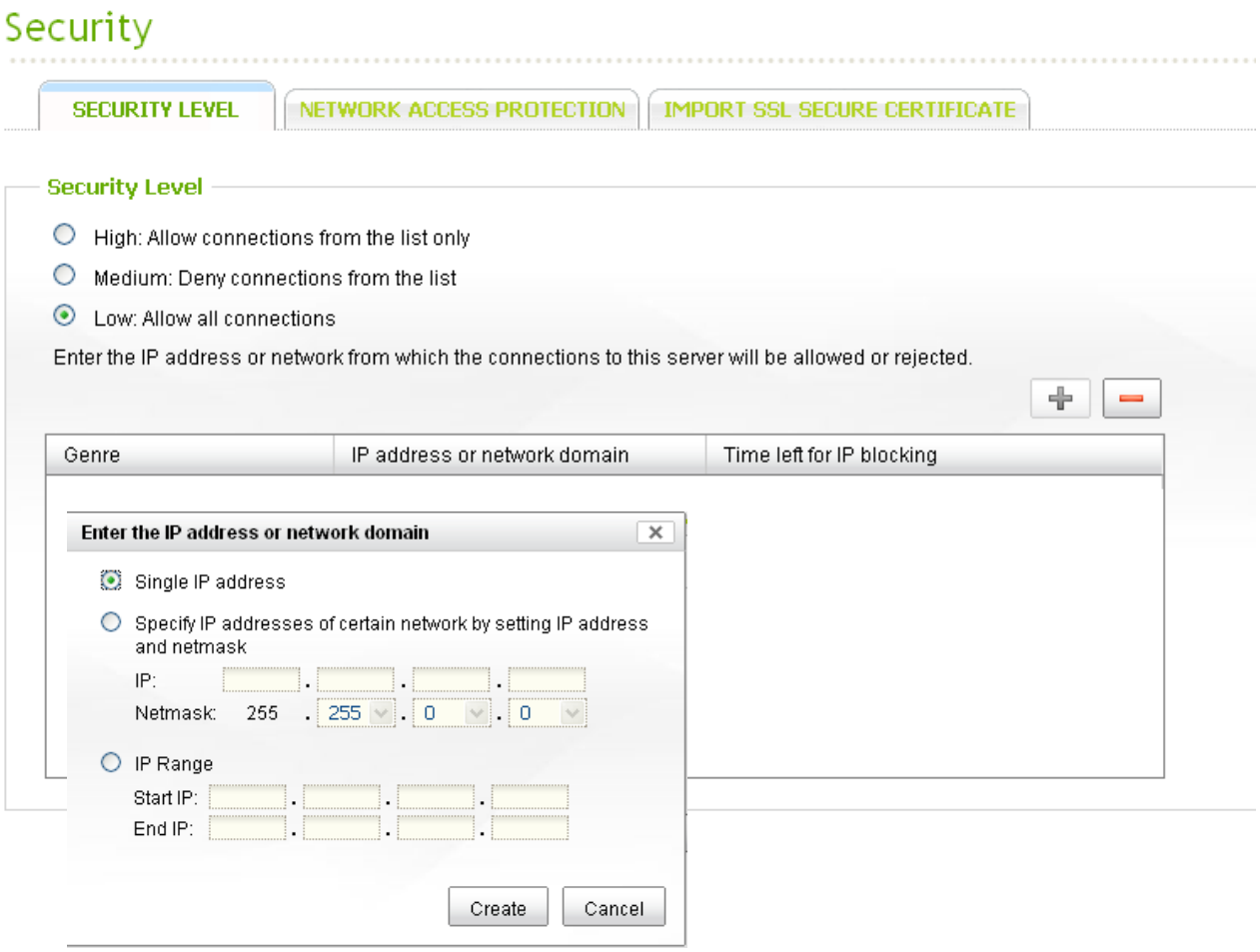
QPKG Software Expansion Platform

Explore the unlimited possibilities of your QNAP NAS!

The QPKG is a convenient platform developed by QNAP to enable users to install lots of useful software applications. The software developed from the users and community worldwide. By a few simple clicks and uploading on the user-friendly GUI, all these applications can be installed. There is no need to go through the hassles of any complicated programming.

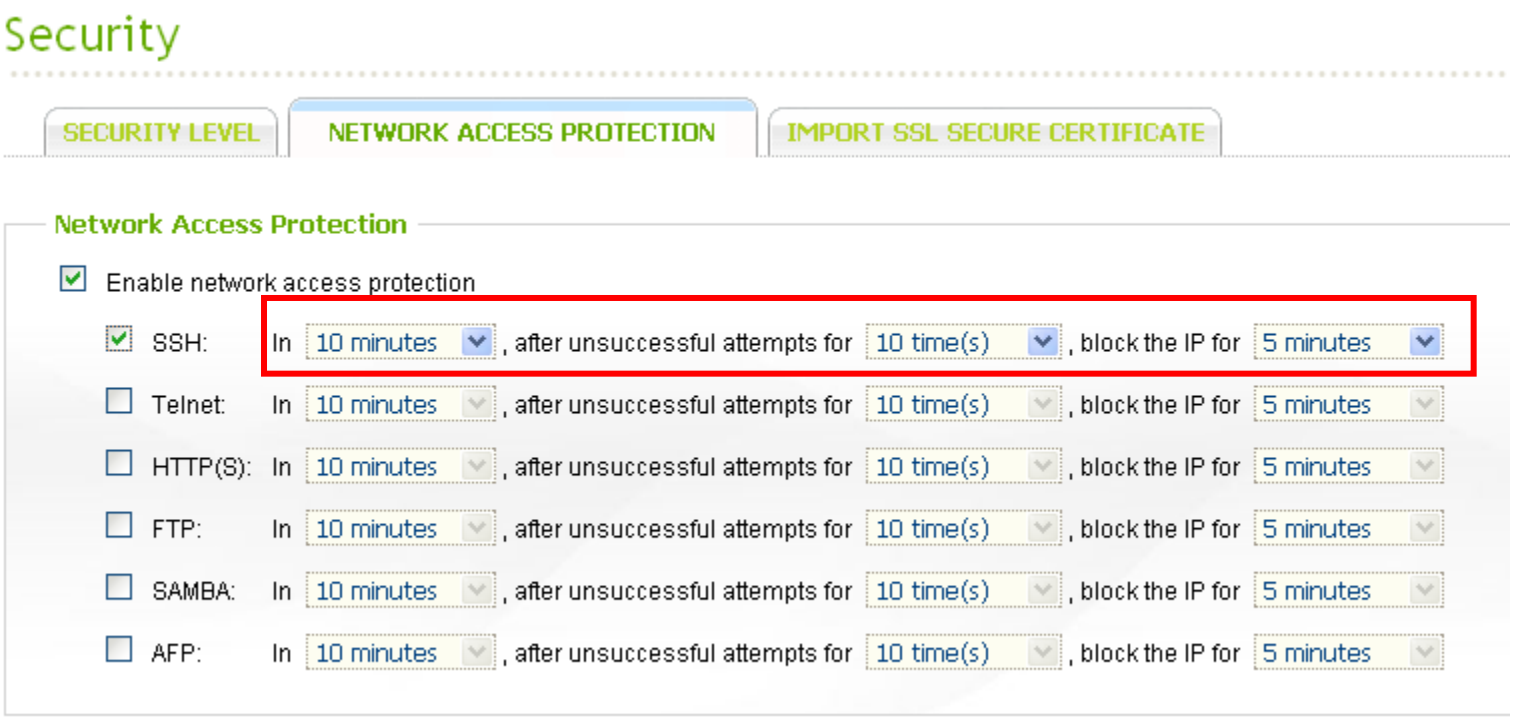
Policy-based Automatic IP Blocking- 1

To prevent the NAS from malicious attacks, the server manager can create an IP filter policy to allow, deny, or auto-blocking the IP address or network domain which attempts to connect to the NAS via SSH/ Telnet/HTTP(S)/ FTP/ samba/AFP.



Policy-based Automatic IP Blocking- 2

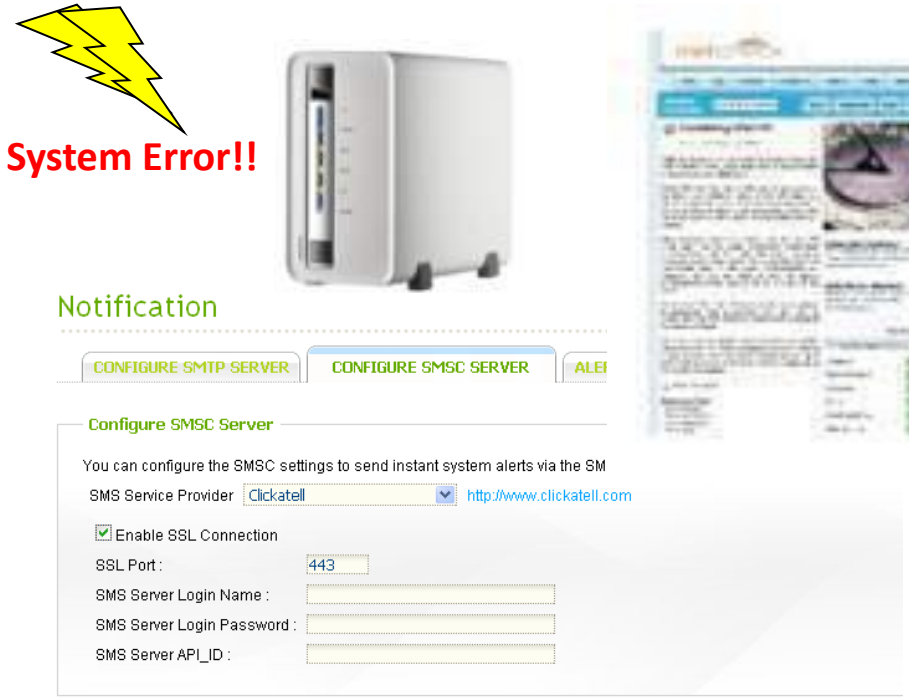
Users can control the access to the server according to the number of times an IP fails to login the server via a certain connection method.
The connection type includes SSH, Telnet, HTTP(S), FTP, SAMBA, and AFP.



Instant SMS Alert

The instant system alerts would be sent via the SMS Service provided by the SMS Provider.

Users could enter 2 sets of mobile phone number worldwide at most to receive the message and manage the system in time.



SNMP (Simple Network Management Protocol)

Enable SNMP service on the NAS to actively send the information, warning or error of the NAS to max 3 SNMP trap addresses installed SNMP management tool. Moreover, MIB of NAS can be downloaded and imported to your PC with SNMP tool. Your PC can then acquire the info of the NAS actively, e.g. cpu-usage, temperature.

Event log
(info, error, warning)

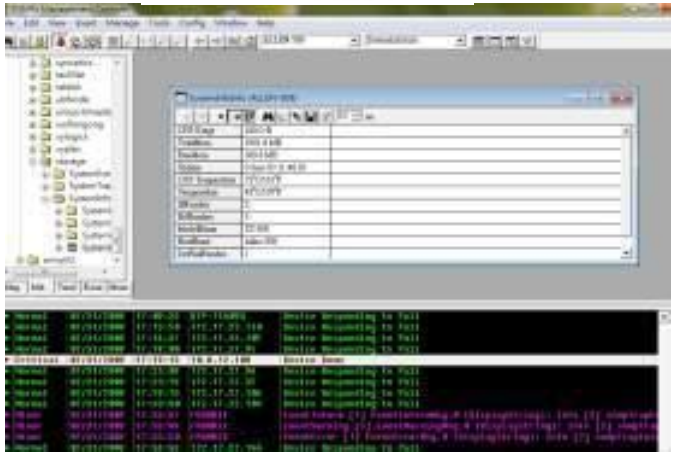
SNMP Settings

SNMP

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

- [x] Enable SNMP Service

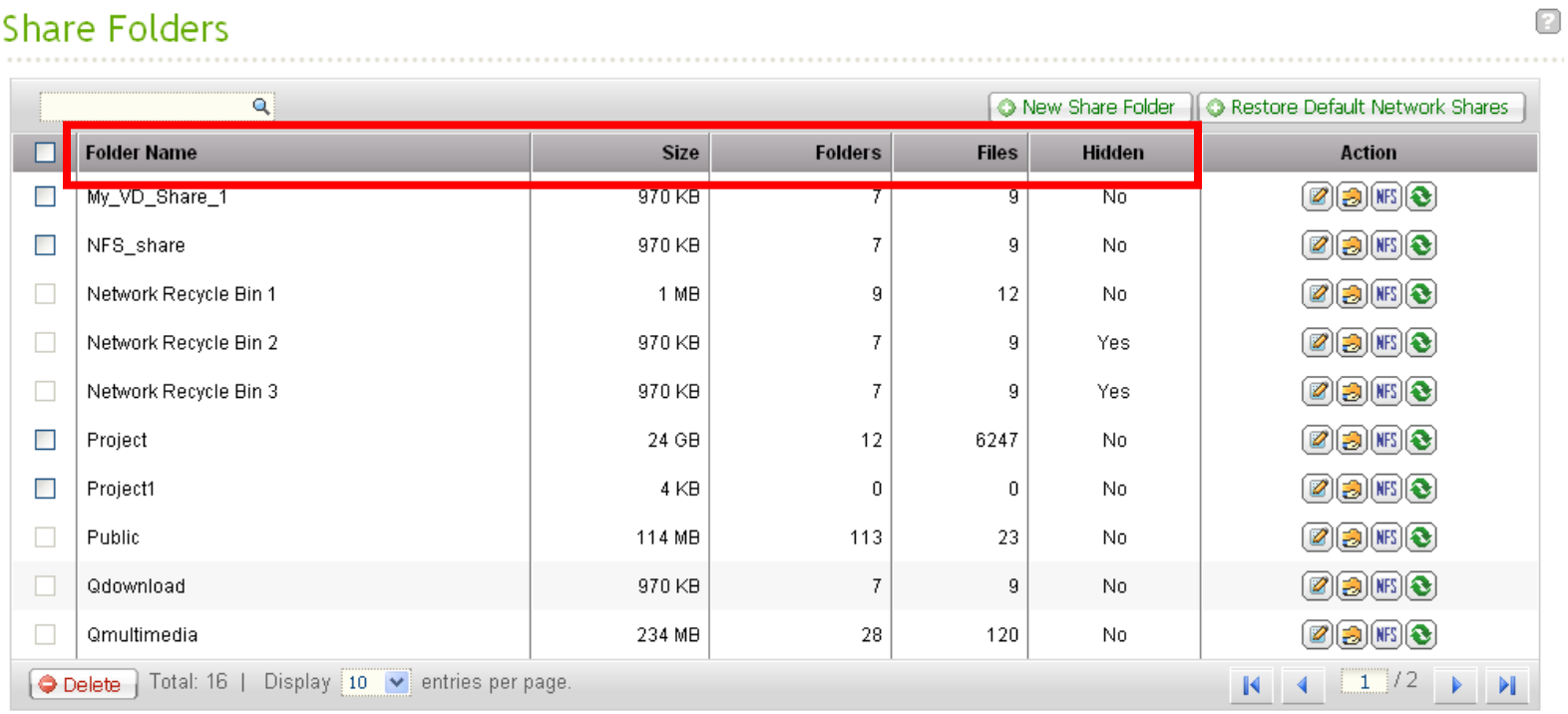
Port Number:	161
Community:	public
Send Event:	[x] Information [x] Warning [x] Error
Trap Address 1:	10.8.12.47
Trap Address 2:	10.8.12.18
Trap Address 3:	



Volume Status Report

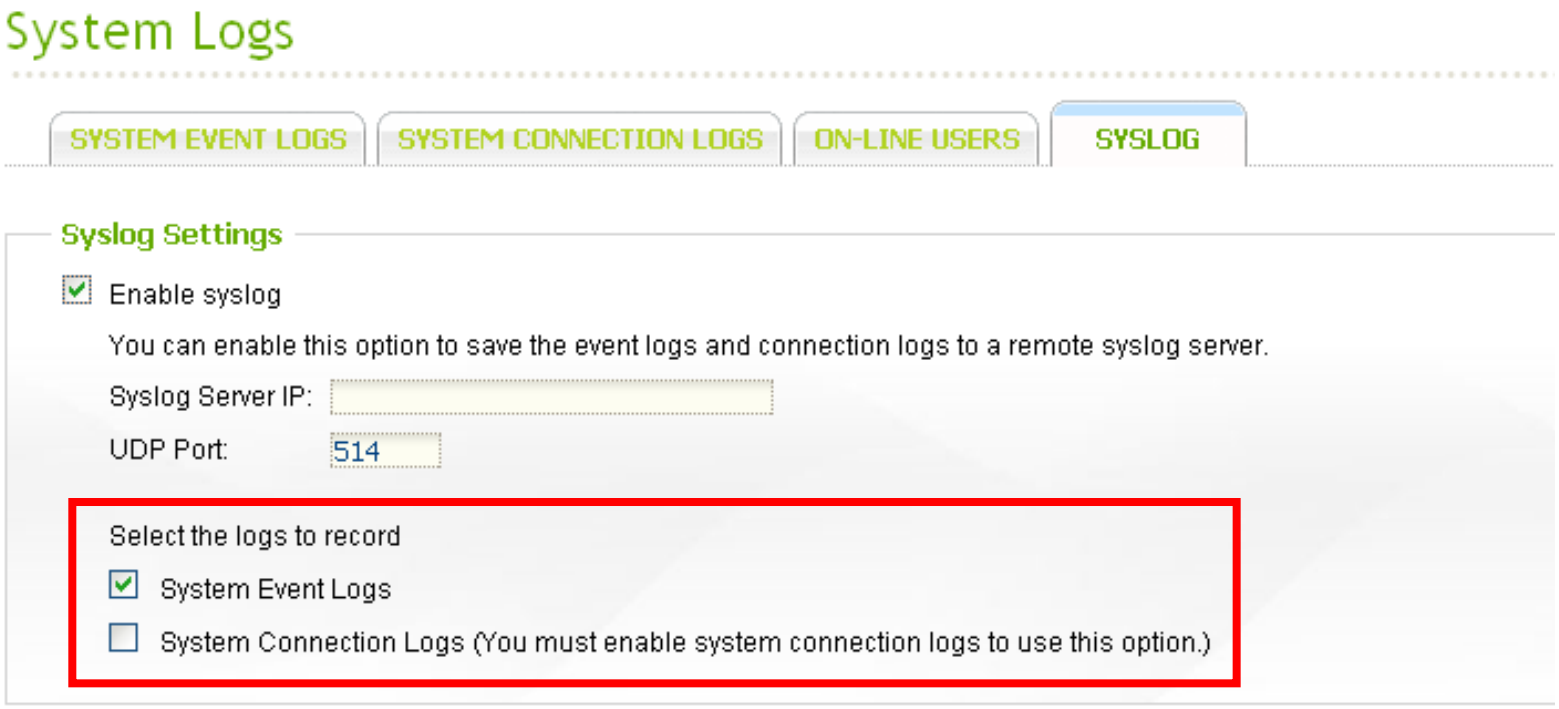
• Users can check the status of the network share folders of the system including the storage capacity, number of folders and files etc.

• Clicking on “Name”, “Size”, “No. of Folders”, “No. of Files”, or “Hidden” to sort the contents in ascending or descending order.



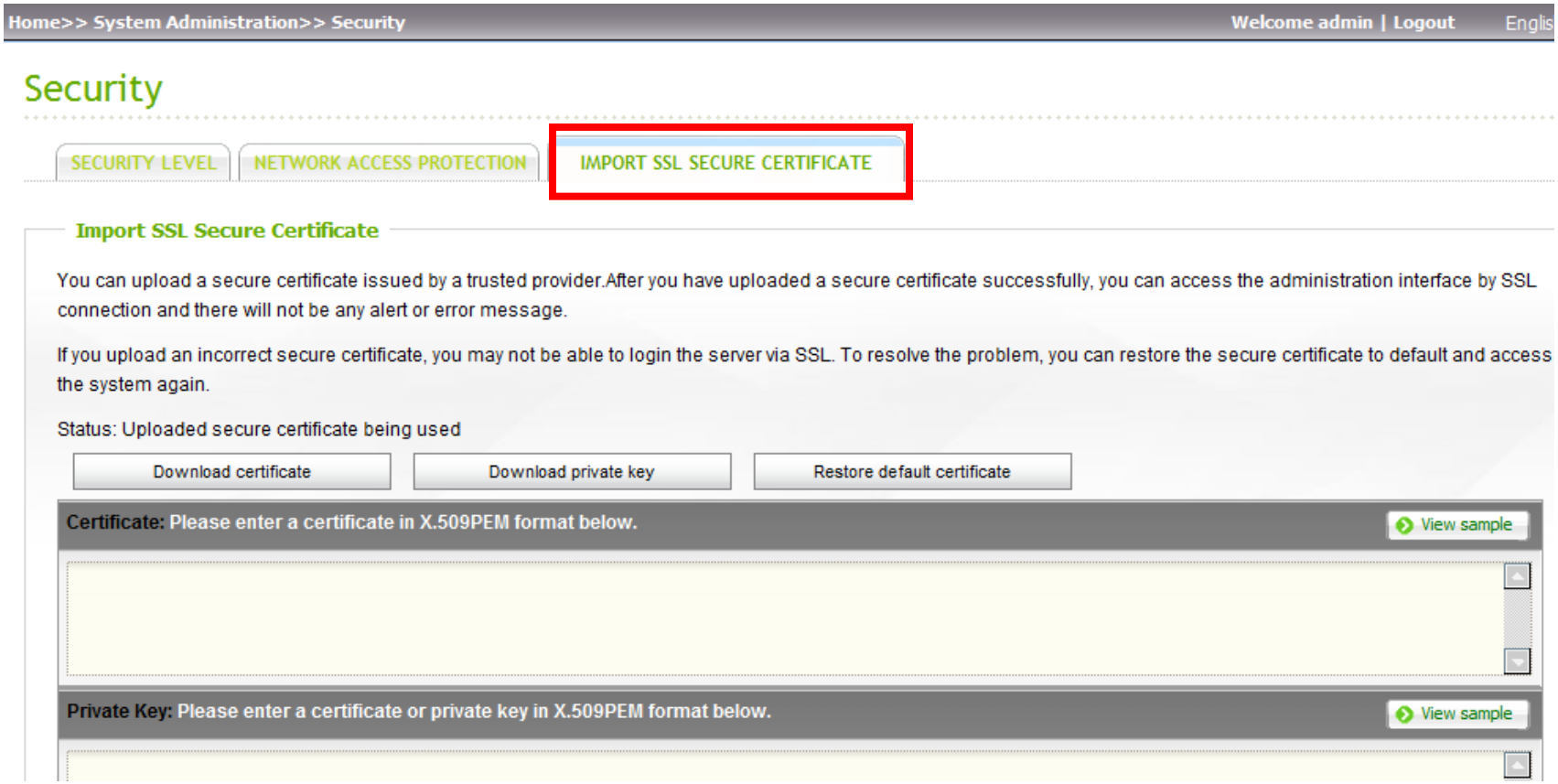
Syslog Server Settings Supported

Syslog is a standard for forwarding log messages in an IP network.
Users can save the event logs and connection logs to a remote syslog server.



Import SSL Secure Certificate

The administrator can upload a secure certificate and an RSA private key in X.509PEM format issued by a trusted provider in order to allow the users to access the NAS by secure SSL login



Thank you !!!