Synology

Synology DiskStation User's Guide

Based on DSM 3.1

 Document ID
 110302DSMUGENU

 Applied Models
 DS111
 DS110+
 DS110j
 DS211+
 DS211

 DS211j
 DS710+
 DS411+II
 DS411j
 DS411slim

 DS410
 DS1511+
 RS411
 RS810+
 RS810RP+

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Introduction

Congratulations on your purchase of Synology DiskStation. Synology DiskStation is a multi-functional Network-Attached Storage server, serving as a file-sharing center within your Intranet. Moreover, it is specially designed for a variety of purpose, allowing you to perform the following tasks with the web-based Synology DiskStation Manager:

Store and Share Files over the Internet

Windows users, Mac users, and Linux users can easily share files within the Intranet or through the Internet. Unicode language support makes sharing files in different languages from Synology DiskStation simple.

Transfer Files via FTP

Synology DiskStation provides FTP service with bandwidth restriction and anonymous login. To transfer data safely, FTP over SSL/TLS and uninvited IP auto-block are also available.

Manage Files with Web-Based File Browser

One of Synology DiskStation Manager's applications, File Browser, can make it possible for users to manage their files on Synology DiskStation easily through a web interface. If you want to manage DiskStation files through a customized port, File Station is also available. You can also access the files stored on Synology DiskStation with a mobile device.

Share Storage Capacity as iSCSI Target

You can designate portion of your Synology DiskStation volume space to be an iSCSI Target, which will allow the iSCSI initiator to access the space like a local disk.

Back Up Files on Computer and Server

Synology DiskStation provides various backup solutions to back up computer data to Synology DiskStation, back up Synology DiskStation data to an external hard drive, another Synology DiskStation, an rsync-compatible server, or Amazon S3 server.

Enjoy Entertainment Content on the Server

Download Station allows you to download files from the Internet through BitTorrent, FTP, HTTP, eMule and NZB to Synology DiskStation. Moreover, if you have an UPnP DMA connected in the LAN, you can share the multimedia files on Synology DiskStation¹. If you just want to share and play music files stored on Synology DiskStation, you can enable iTunes Service, and enjoy the music through any iTunes clients on LAN.

With the USBCopy or SDCopy function, you can press the Copy button on your DiskStation to instantly copy files from a camera or SD card to Synology DiskStation.²

Share Photos, Videos, and Blogs with Photo Station

Photo Station gives you the freedom to share photos and videos over the Internet without complicated upload steps. Album control ensures the content is shared with the right persons. Visitors can leave comments for your photos. Furthermore, a brand new blogging system is integrated for you to easily share your life and thoughts over the Internet.

¹ For recommended peripheral models, including hard drive, USB printer, DMA, and UPS, please visit www.synology.com.
² USBCopy or SDCopy is supported on specific models only. See "Appendix A: Synology DiskStation Specifications" on Page 219 for more information.

Enjoy Music Anytime and Anywhere

Audio Station allows you to listen to music stored on the Synology DiskStation, from a connected iPod, or even stream Internet Radio stations. In addition, you can stream music from the Synology DiskStation with a web browser over the Internet.

Host Websites

The Virtual Host feature allows you to host up to 30 websites using Web Station, with PHP and MySQL supported.

Record Videos with IP Cameras

Surveillance Station allows you to manage, view, and record videos from multiple IP cameras over the network. By accessing the web-based management interface of Surveillance Station, you can watch the real-time image the camera is monitoring, and record videos continuously, in motion-detection mode, or in alarm-recording mode.

USB Print Server

You can share up to 2 USB 2.0 Printers through the LAN.¹

Online Resources				
Click on the links to obtain Synology's online resources.				
FAQ: www.synology.com/support/faq.php				
Wiki: forum.synology.com/wiki				
Forum: forum.synology.com				
Download Center: www.synology.com/support/download.php				
Technical Support: www.synology.com/support/support form.php				

¹ For recommended peripheral models, including hard drive, USB printer, DMA, and UPS, please visit www.synology.com.

Chapter

Synology DiskStation at a Glance

1-Bay & 2-Bay Models

Most Models



No.	Article Name	Location	Description
1)	Power Button	Front Panel	The Power Button is used to turn Synology DiskStation on or off. To turn off Synology DiskStation, press the Power Button and hold it until you hear a beep sound and the Power LED starts blinking.
2)	LED Indicators	Front Panel	The LED indicator is used to display the status of the internal disk and the system. For more information, see "Appendix B: LED Indication Tables" on Page 226.
3)	Copy Button	Front Panel	The Copy Button lights up when you connect a USB Device (for example: digital camera, USB flash disk) to the USB port on the front panel. Pressing the button will copy the data from the connected USB device to Synology DiskStation's internal HDD.
4)	USB Port	Front & Back Panel	The Synology DiskStation offers USB ports for adding additional external hard drives, USB printers, or other USB devices.
5)	eSATA Port ¹	Front Panel	The eSATA port is for connecting with an external SATA HDD.
6)	Fan	Back Panel	The fan is built to exhaust waste heat out of Synology DiskStation. It will start automatically when the server starts. If the fan is malfunctioning, system will beep every 1 second.

¹ eSATA Port is supported on specific models only. See "Appendix A: Synology DiskStation Specifications" on Page 219 for more information.

Based on DSM 3.1

No.	Article Name	Location	Description
7)	RESET Button	Back Panel	 To restore IP, DNS, passwords for the admin account to default value. To reinstall the Synology DiskStation.
8)	LAN Port	Back Panel	The LAN port is where you connect RJ-45 cable to Synology DiskStation.
9)	Power Port	Back Panel	The power port is where you connect the AC adapter to Synology DiskStation.

DS211+



No.	Article Name	Location	Description			
1)	LED Indicators	Front Panel	The LED indicator is used to display the status of the internal disk and the system. For more information, see "Appendix B: LED Indication Tables" on Page 226.			
2)	SD Card Slot	Front Panel	The Synology DiskStation offers SD card slot for accessing a SD card.			
3)	USB Port	Front & Back Panel	The Synology DiskStation offers USB ports for adding additional external hard drives, USB printers, or other USB devices.			
4)	Copy Button	Front Panel	The Copy Button lights up when you connect a USB Device to the USB port or a SD card to the SD card slot on the front panel. Pressing the button will copy the data from the connected USB device and SD card to Synology DiskStation's internal HDD.			
5)	Power Button	Front Panel	The Power Button is used to turn Synology DiskStation on or off. To turn off Synology DiskStation, press the Power Button and hold it until you hear a beep sound and the Power LED starts blinking.			
6)	Fan	Back Panel	The fan is built to exhaust waste heat out of Synology DiskStation. It will start automatically when the server starts. If the fan is malfunctioning, system will beep every 1 second.			
7)	LAN Port	Back Panel	The LAN port is where you connect RJ-45 cable to Synology DiskStation.			
8)	RESET Button	Back Panel	 To restore IP, DNS, passwords for the admin account to default value. To reinstall the Synology DiskStation. 			
9)	eSATA Port	Back Panel	The eSATA port is for connecting with an external SATA HDD.			
10)	Power Port	Back Panel	The power port is where you connect the AC adapter to Synology DiskStation.			

DS710+





No.	Article Name	Location	Description
			The Power Button is used to turn Synology DiskStation on or off.
1)	Power Button	Front Panel	To turn off Synology DiskStation, press the Power Button and hold it until you hear a beep sound and the Power LED starts blinking.
2)	LED Indicators	Front Panel	The LED indicator is used to display the status of the internal disk and the system. For more information, see "Appendix B: LED Indication Tables" on Page 226.
3)	Copy Button	Front Panel	The Copy Button lights up when you connect a USB Device (for example: digital camera, USB flash disk) to the USB port on the front panel. Pressing the button will copy the data from the connected USB device to Synology DiskStation's internal HDD.
4)	USB Port	Front & Back Panel	The Synology DiskStation offers USB ports for adding additional external hard drives, USB printers, or other USB devices.
5)	eSATA Port	Back Panel	The eSATA port is for connecting with an external SATA HDD.
6)	RESET Button	Back Panel	 To restore IP, DNS, passwords for the admin account to default value. To reinstall the Synology DiskStation.
7)	Hard Drive Tray	Back Panel	The hard drive tray is designed for loading the hard drives used in Synology DiskStation.
8)	Hard Drive Tray Lock	Back Panel	Each hard drive tray is equipped with one tray lock to lock or unlock the trays to the DiskStation.
9)	VGA Port	Back Panel	This port is used for manufacturing use only.
10)	LAN Port	Back Panel	The LAN port is where you connect RJ-45 cable to Synology DiskStation.
11)	Power Port	Back Panel	The power port is where you connect the AC adapter to Synology DiskStation.

4-Bay Models

DiskStation

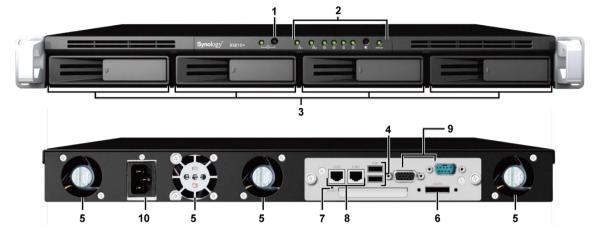




No.	Name	Location	Description			
1)	Power Button	Front Panel	The Power Button is used to turn Synology DiskStation on or off. To turn off Synology DiskStation, press the Power Button and hold it until you hear a beep sound and the Power LED starts blinking.			
2)	LED Indicators	Front Panel	The LED indicator is used to display the status of the internal disk and the system. For more information, see "Appendix B: LED Indication Tables" or Page 226.			
3)	USB Port	Back Panel	The Synology DiskStation offers USB ports for adding additional external hard drives, USB printers, or other USB devices.			
4)	Fan	Back Panel	The fan is built to exhaust waste heat out of Synology DiskStation. It will start automatically when the server starts. If the fan is malfunctioning, system will beep every 1 second.			
5)	eSATA Port ¹	Back Panel	The eSATA port is for connecting with an external SATA HDD.			
6)	RESET Button	Back Panel	 To restore IP, DNS, passwords for the admin account to default value. To reinstall the Synology DiskStation. 			
7)	LAN Port	Back Panel	The LAN port is where you connect RJ-45 cable to Synology DiskStation.			
8)	Power Port	Back Panel	The power port is where you connect the AC adapter to Synology DiskStation.			

¹ eSATA Port is supported on specific models only. See "Appendix A: Synology DiskStation Specifications" on Page 219 for more information.

1U RackStation



No.	Article Name	Location	Description
1)	Power Button	Front Panel	The Power Button is used to turn Synology RackStation on or off. To turn off Synology RackStation, press the Power Button and hold it until you hear a beep sound and the Power LED starts blinking.
2)	LED Indicators	Front Panel	The LED indicator is used to display the status of the internal disk and the system. For more information, see "Appendix B: LED Indication Tables" on Page 226.
3)	Hard Drive Tray	Front Panel	The hard drive tray is designed for loading the hard drives used in Synology RackStation.
4)	USB Port	Back Panel	The Synology RackStation offers USB ports for adding additional external hard drives, USB printers, or other USB devices.
5)	Fan	Back Panel	The fan is built to exhaust waste heat out of Synology RackStation. It will start automatically when the server starts. If the fan is malfunctioning, system will beep every 1 second.
6)	eSATA Port	Back Panel	The eSATA port is for connecting with an external SATA HDD.
7)	RESET Button	Back Panel	 To restore IP, DNS, passwords for the admin account to default value. To reinstall the Synology RackStation.
8)	LAN Port	Back Panel	The LAN port is where you connect RJ-45 cable to Synology RackStation.
9)	Console Port & VGA Port	Back Panel	This port is used for manufacturing use only.
10)	Power Port	Back Panel	The power port is where you connect the AC adapter to Synology RackStation.

DS411slim



No.	Name	Location	Description
1)	Power Button	Front Panel	The Power Button is used to turn Synology DiskStation on or off. To turn off Synology DiskStation, press the Power Button and hold it until you hear a beep sound and the Power LED starts blinking.
2)	LED Indicators	Front Panel	The LED indicator is used to display the status of the internal disk and the system. For more information, see "Appendix B: LED Indication Tables" on Page 226.
3)	Copy Button	Front Panel	The Copy Button lights up when you connect a USB Device (for example: digital camera, USB flash disk) to the USB port on the front panel. Pressing the button will copy the data from the connected USB device to Synology DiskStation's internal HDD.
4)	USB Port	Front & Back Panel	The Synology DiskStation offers USB ports for adding additional external hard drives, USB printers, or other USB devices.
5)	eSATA Port	Back Panel	The eSATA port is for connecting with an external SATA HDD.
6)	RESET Button	Back Panel	 To restore IP, DNS, passwords for the admin account to default value. To reinstall the Synology DiskStation.
7)	LAN Port	Back Panel	The LAN port is where you connect RJ-45 cable to Synology DiskStation.
8)	Hard Drive Tray	Back Panel	The hard drive tray is designed for loading the hard drives used in Synology DiskStation.
9)	Power Port	Back Panel	The power port is where you connect the AC adapter to Synology DiskStation.

5-Bay Models

DS1511+

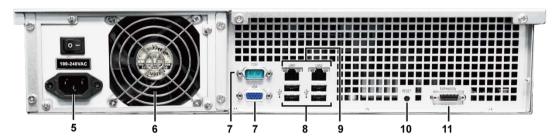


No.	Article Name	Location	Description			
1)	Power Button	Front Panel	The Power Button is used to turn Synology DiskStation on or off. To turn off Synology DiskStation, press the Power Button and hold it until you hear a beep sound and the Power LED starts blinking.			
2)	LED Indicators	Front Panel	The LED indicator is used to display the status of the internal disk and the system. For more information, see "Appendix B: LED Indication Tables" on Page 226.			
3)	Hard Drive Tray	Front Panel	The hard drive tray is designed for loading the hard drives used in Synology DiskStation.			
4)	Hard Drive Tray Lock	Front Panel	Each hard drive tray is equipped with one tray lock to lock/unlock the trays to the DiskStation.			
5)	USB Port	Back Panel	The Synology DiskStation offers USB ports for adding additional extended hard drives, USB printers, or other USB devices.			
6)	Fan	Back Panel	The fan is built to exhaust waste heat out of Synology DiskStation. It will start automatically when the server starts. If the fan is malfunctioning, system will beep every 1 second.			
7)	eSATA Port 1	Back Panel	The eSATA port 1 is for connecting with the first external SATA HDD.			
8)	eSATA Port 2	Back Panel	The eSATA port 2 is for connecting with the second external SATA HDD.			
9)	RESET Button	Back Panel	 To restore IP, DNS, passwords for the admin account to default value. To reinstall the Synology DiskStation. 			
10)	LAN Port	Back Panel	The LAN port is where you connect RJ-45 cable to Synology DiskStation.			
11)	VGA Port	Back Panel	This port is used for manufacturing use only.			
12)	Power Port	Back Panel	The power port is where you connect the power cord to Synology DiskStation.			

10-Bay Models

2U RackStation





No.	Article Name	Location	Description			
			The Power Button is used to turn Synology RackStation on or off.			
1)	Power Button	Front Panel	To turn off Synology RackStation, press the Power Button and hold it until you hear a beep sound and the Power LED starts blinking.			
2)	Beep off Button	Front Panel	The Beep off Button is used to turn off the beep sound of Synology RackStation.			
3)	LED Indicators	Front Panel	The LED indicator is used to display the status of the internal disk and the system. For more information, see "Appendix B: LED Indication Tables" on Page 226.			
4)	Hard Drive Tray	Front Panel	The hard drive tray is designed for loading the hard drives used in Synology RackStation.			
5)	Power Port	Back Panel	The power port is where you connect the power cord to Synology RackStation.			
			The power fans are built to exhaust waste heat out of the power supply.			
6)	Fan	Back Panel	The system fans (inside RackStation) are built to exhaust waste heat out of RackStation. If the fan is not working, the RackStation will "beep" every few seconds.			
7)	Console Port & VGA Port	Back Panel	This port is used for manufacturing use only.			
8)	USB Port	Back Panel	The Synology RackStation offers USB ports for adding additional external hard drives, USB printers, or other USB devices.			
9)	LAN Port	Back Panel	The LAN port is where you connect RJ-45 cable to Synology RackStation.			
10)	RESET Button	Back Panel	 To restore IP, DNS, passwords for the admin account to default value. To reinstall the Synology RackStation. 			
11)	Expansion Port	Back Panel	The Expansion port is used to connect Synology Expansion Unit ¹ to Synology RackStation.			

¹ Synology Expansion Unit is supported on specific models only. Please visit www.synology.com.

Chapter 2

Get Started with Synology DiskStation Manager

This Chapter explains how to log in to Synology DiskStation's web-based management UI, **Synology DiskStation Manager (DSM)**, customize your own desktop, manage its taskbar, and use the Main Menu to access DSM settings and applications.

Install Synology DiskStation

For more information setting up Synology DiskStation and installing DSM, see the **Quick Installation Guide** that came with your installation disc.

Log in to Synology DiskStation Manager

You can log in to DSM with Synology Assistant or with a web browser.

Use Synology Assistant

Windows User:

- 1 Insert the Installation CD or DVD into the CD/DVD-Rom Drive of your computer.
- 2 Choose Start from the autorun menu and follow the steps to complete installation.

Synology	
	Start
e	Quick Installation Guide
	User's Guide
0	Synology Assistant
0	Data Replicator 3
0	Download Redirector
	😰 Browse DVD 🛛 🔞 Exit

3 After installation, double-click the desktop icon to launch Synology Assistant.

4 Choose the server you want to manage. Click **Connect** or double-click the selected server to go to DSM's login screen.

Management	Printer	r Device						Syno logy
۹ Search	볿 Connect	🛱 Map Drive	<mark>ሆ</mark> Set U	lp WOL				🏶 😧 🚯
Server name	IP add	lress IP	status	Status	MAC address	Version	Model 📤	Serial no
PMDemo	192.18	68.36.18 DH	ICP	Ready	00:0E:8E:15:0D:48	3.1-1593	DS1010+	A1GAN0040

5 Enter your user name and password, and click Login. The default password for admin is empty.

-	admin		
Þ			$\overline{\mathbf{O}}$

Mac OS X User:

- 1 Insert the Installation CD into CD/DVD-Rom Drive.
- 2 Double-click the CD-Rom Drive icon on the desktop.



3 Double-click the MacOSX icon, and then double-click the Synology Assistant-SYNOLOGY.dmg icon.



4 Double-click the Synology Assistant icon to run setup wizard.

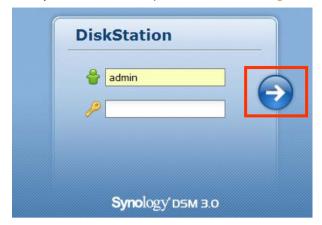


Synology Assistant.app

5 Choose the server you want to manage. Click **Connect** or double-click the selected server to go to DSM's login screen.

Managemen	t Printer Device				Synology
Q Search	옯 Connect 🛛 🛱 Map Drive 🛛 🖞 Set	Up WOL			🏶 😧 🚯
Server name	IP address IP status	Status	MAC address Ve	ersion Model 📤	Serial no
PMDemo	192.168.36.18 DHCP	Ready	00:0E:8E:15:0D:48 3.1	-1593 DS1010+	A1GAN0040

6 Enter your user name and password, and click Login. The default password for admin is empty.



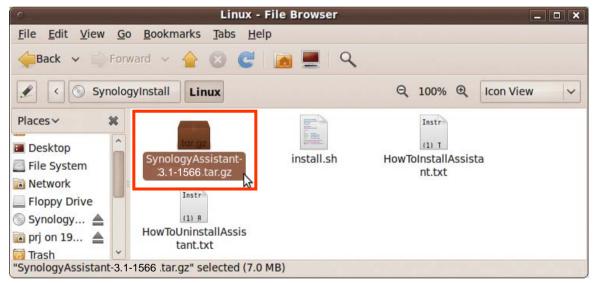
Linux (Ubuntu) User:

1 Insert the installation CD into your computer, and then double-click the SynologyInstall icon on the desktop.



SynologyInstall

2 In the File Browser window that appears, double-click the Linux folder, and then double-click Synology Assistant-3.1-[number].tar.gz.



3 Click Extract, and then extract the SynologyAssistant directory to the path /usr/local or any other path.

ં ડ્યુ	nologyAssistant-3.	1-1566 .tar.g	z [read only]	_ 0 ×
<u>File Edit View H</u> elp				
□ 🔓 Open 🗸 🛛 😭 🖆 E		8		
👍 Back 📫 🏠 🏠	Location: 1			
Name	✓ Size	Туре	Date Modified	
SynologyAssistant	15.8 MB	Folder	03 November 2009, 14:41	
1 object (15.8 MB)				

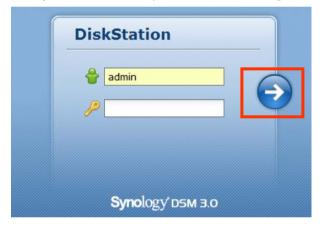
4 Go to the path /usr/local/SynologyAssistant (or [the path you just specified]/SynologyAssistant), doubleclick SynologyAssistant, and then select Run in Terminal in the dialog box that appears.

	vant to run " y its content	SynologyAssis	tant",
•		ecutable text file.	
Run in Terminal	Display	Cancel	Run

5 Choose the server you want to manage. Click Connect or double-click the selected server to go to DSM's login screen.

Management	t Printer De	vice			Syno logy
Search	몳 Connect 🛛 🛱	Map Drive 🛛 😃 Set	t Up WOL		🤹 😮 🚯
Server name	IP address	s IP status	Status	MAC address Ver	rsion Model 🔷 Serial no
PMDemo	192.168.38	6.18 DHCP	Ready	00:0E:8E:15:0D:48 3.1	-1593 DS1010+ A1GAN004(

6 Enter your user name and password, and click Login. The default password for admin is empty.



Use a Web Browser

- 1 Open a web browser window.
- 2 In the address field, enter any of the following:
 - http://Synology_Server_IP:5000
 - http://Synology_Server_Name:5000/ (or http://Synology_Server_Name.local:5000/ on a Mac)

Synology_Server_Name should be replaced with the name you set up for Synology DiskStation during the setup process. If you choose One-step Setup during the setup process, the Synology_Server_Name will be DiskStation, CubeStation, USBStation, or RackStation.

00	00		Synology DiskStation - DiskStation							
	►	+	🕙 htt	p://diskstati	on.local	:5000		Ċ	Q- Google	\supset
\square		Bonj	our▼	Synology v	Mac▼	Ref Tool v	Tutor	Gmail	information v	>>

3 Press Enter (PC) or Return (Mac) on your keyboard.

4 Enter your user name and password, and click Login. The default password for admin is empty.

Note: To ensure your connection to DSM runs smoothly, please use the following browsers.

- Chrome: 8.0 or later
- Firefox: 3.5 or later
- Safari: 4.0 or later
- Internet Explorer: 7.0 or later

DiskStation Manager Appearance

When you log in to Synology DiskStation Manager (DSM), you can see the desktop and the taskbar.

Desktop and Shortcuts

The desktop is where your application windows are displayed. You can also create desktop shortcuts to frequently used applications.



To create a desktop shortcut to an application: Drag its thumbnail from the Main Menu to the desktop.

To remove a desktop shortcut to an application: Right-click the shortcut and choose Remove shortcut.

To open Audio Station or Download Station in a new browser window: Right-click the applications' Main Menu thumbnail or desktop shortcut and choose Open in New Window.

Note: You can also customize your desktop background color or wallpaper with the **Desktop** function. See "Desktop" on Page23 for more information.

Taskbar

The taskbar at the top of the desktop contains the following functions:



- 1 The Show Desktop button: Click to clear your application windows and reveal the desktop. Click again to bring the windows back to the desktop. For more information about application windows, see "Open Application Windows" on Page 21.
- 2 The Main Menu button: Click to reveal the Main Menu. See "Manage DSM with the Main Menu" on Page 20 for more information.
- 3 The icons of open applications:
 - Click the icon of an application to show or hide its window on the desktop.
 - Right-click the icon and choose from the shortcut menu to manage the application window (Maximize, Minimize, Restore, Close) or its taskbar icon (Pin to Taskbar, Unpin from Taskbar).
- 4 The search field: Enter keywords to quickly find a list of relevant applications and DSM Help articles.
- 5 The Notification button (with an exclamation mark): Click to check the logs of important events. Click Clear All to remove all events and hide the Notification button.

Note: For more information about system log, see "Log" on Page 208.

6 The Upload Queue button: Click to open the File Task Monitor window, where you can check the progress of all uploading and background tasks.

Manage DSM with the Main Menu

The Main Menu is where you can find all the applications and settings provided by Synology DiskStation Manager.



Logout, Restart, and Shutdown

Click Logout, Restart, or Shutdown at the bottom-right corner of the Main Menu to log out of DSM, restart DiskStation, or turn it off, just like using any other operating systems.

Reorder Main Menu's Thumbnails

Open Main Menu and drag any thumbnail to any position you want. When you see the "+" icon, release to reposition the thumbnail.

Open Application Windows

In addition to the **Control Panel**, the **Main Menu** contains the thumbnails of all the other DSM applications. With DSM's multitasking ability, now you can open multiple application windows at the same time.

To open an application window:

Click any thumbnail of an application from the Main Menu to open the application window on the desktop and the application icon on the taskbar.

Note: You can also open application windows through desktop shortcuts. See "Desktop and Shortcuts" on Page 19 for more information.

Use the Control Panel

Choose Control Panel from the Main menu to see the thumbnails of DSM settings.



The DSM settings on the Control Panel are grouped into the following categories:

- File Sharing and Privileges: Set up Win/Mac/NFS/FTP file sharing service, and assign application privileges for user accounts.
- Network Services: Manage and edit the settings for network services and Internet connection.
- System: Edit the basic settings on your DiskStation.
- Application Settings: Enable the services of built-in applications.

Note: Control Panel is accessible only to **admin** or users belonging to the **administrators** group. See "Create and Edit Groups" on Page 77 for more information.

Manage Personal Options

Click the **Options** button at the top-right corner of **Main Menu** to manage the following options for your DSM user account.

Account

Under Account, you can change your account's password and description.

🔮 Options			0 🖸 🕄
Account Volume Usage	Desktop Photo Station	Others]
Name:	admin		
Description:	System default user		
Password:	•••••		
Confirm password:	•••••		
			OK Cancel

To modify your account:

- 1 Enter a description for your account (optional).
- 2 If you want to change your account's password, enter the new one and confirm it.

3 Click OK.

Limitations:

- The user description is case sensitive and can be 0 to 64 displayable Unicode characters.
- The password is case sensitive and should be 0 to 127 displayable characters, including letters, numbers, signs, and space.

Volume Usage

Under Volume Usage, you can view your quota on all DiskStation volumes set by **admin**, as well as the amount of capacity you have used on each volume.

🖢 Options			0 🛛 🕄
Account	olume Usage	Pesktop Photo Station Others	
Volume	Quota	Used capacity	
Volume 1	No Limit	305.153 GB	
Volume 2	No Limit	202.148 GB	
		0	Cancel

Desktop

Under **Desktop**, you can customize desktop background color or wallpaper.

🚰 Options		2 🕑 😒
Account Volume Usage	Desktop Photo Station Others	
Customize wallpaper Background color:	#FFFFF V	
Customize image Select image Background repeat:	Horizontal repeat Vertical repeat	
Background alignment:	Align left Image: Align center	*
	ОК	Cancel

To choose a background color for your desktop:

- 1 Tick Customize Wallpaper.
- 2 Choose a color from the **Background color** drop-down menu, or enter your own color value.

3 Click OK.

To upload a customized image that will be used as your desktop wallpaper:

- 1 Tick Customize Wallpaper and then tick Customize image.
- 2 Click Select image to upload an image that will be used as your DSM's desktop wallpaper. In the dialog that opens, do the following and then click OK:
 - a Select an image located on DiskStation or your computer.
 - b If you want to resize the image to a certain width or height, enter the values in the Scale to fit field.

Note: The maximum length must be less than 3280 pixels.

- **3** If you want to repeat your desktop wallpaper horizontally or vertically, tick **Horizontal repeat** or **Vertical repeat**.
- 4 If you want to adjust the alignment of your desktop wallpaper, choose the options from the **Background** alignment drop-down menu.

5 Click OK.

Photo Station

This tab is viewable only when DSM **admin** or users belonging to the **administrators** group enable Personal Photo Station service. See "Enable Personal Photo Station" on Page 131 for more information.

Others

Under Others, You can customize other personal options.

2 Options	@ @ (3)
Account Volume Usage Desktop Others	
Do not expand the Main Menu after login	
✓ Do not show confirmation dialog when leaving DSM	
Resume DSM to my previous logout status when logging in	
Enable Show Desktop button to resume windows to previous locations	
Browse local files and upload files and folders directly in File Browser	
Note: You may need to re-login DSM or refresh your web browser for the change to take effect.	
ОК С	ancel

To decide whether to expand the application after login:

- 1 Tick Do not expand the Main Menu after login.
- 2 Click OK.

To skip the confirmation dialog when closing the browser window:

- 1 Tick Don't show confirmation dialog when leaving DSM.
- 2 Click OK.

To remember opened windows and restore them after the next login:

1 Tick Resume DSM to previous logout status when logging in.

2 Click OK.

To enable the Show Desktop button to restore windows after the windows are hidden:

- **1** Tick Enable Show Desktop button to resume windows to previous locations.
- 2 Click OK.

To browse computer files with File Browser:

- 1 Tick Browse local files and upload files and folders directly in File Browser.
- 2 Click OK.

Note:

- Enabling this option allows you upload folders in File Browser.
- Browsing local files is not supported by Opera and Safari for Windows.

Chapter

Modify System Settings

3

After you have connected to Synology DiskStation Manager (DSM) and learned how to access its functions and customize its appearance, you as **admin** or a user belonging to the **administrators** group can begin to modify its basic settings.

This chapter explains how to change the network settings, specify default languages, set up time, and use energy saving features.

Change DSM Settings

Go to Main Menu > Control Panel > DSM Settings to change the following DSM settings.

Login Style

Click the Login Style tab to modify the layout of DSM's login screen. You can also upload customized image file to show on the login page.

Control Panel - DS	M Settings				00
← → ♠					?
Login Style	HTTP Service Options	Session Security	File Browser	Router Port	
		6 ****		and the second s	
Add my own r Position: Upload ima	Align center		~		
	3-				
				ОК	Cancel

To change the style of login page:

There are 2 styles, both in 3 colors for you to choose from. Choose the style you like and click OK.

To display your own recognition image on the login page:

- 1 Tick Add my own recognition image.
- 2 Choose the position of the image.
- 3 Click Upload image button and choose the image file you want to use as your recognition image.
- 4 Click OK.

Note: The size of the image file must be less than 1 MB.

HTTP Service Options

Click the HTTP Service Options tab to change the port number or enable HTTPS connection.

🛠 Control Panel - DSM Settings	00
	?
Login Style HTTP Service Options Session Security File Browser Router Port	
Default Port Number	
HTTP: 5000	
HTTPS: 5001	
Enable HTTPS connection	
By enabling this function, HTTP connections will be protected with SSL/TLS connections.	
Automatically redirect HTTP connections to HTTPS (Web Station and Photo Station excluded)	
Import Certificate	
OK Cancel	

To change the default HTTP or HTTPS port number (for DSM and Audio Station):

- 1 Enter the port number in the HTTP or HTTPS field.
- 2 Click OK.

To enable HTTPS connection:

- 1 Tick Enable HTTPS connection.
- 2 Click the optional Import Certificate or check Automatically redirect HTTP connections to HTTPS. (See the section below for more information.)
- 3 Click OK.

When the HTTPS connection is enabled, any connection to Synology DiskStation via the HTTP protocol will be encrypted with the SSL/TLS encrypting mechanism.

More Information

About redirecting to HTTPS connection:

When the option Automatically redirect HTTP connections to HTTPS is checked, you will be redirected to port 5001 while trying to access the web management UI through port 5000.

Ports used for HTTPS connection:

- DSM: The port number is 5001, so you can access the management UI through the secure channel: https://Synology_Server_IP:5001/
- Web Station: The port number is 443, so you can access Web Station through the secure channel: https://Synology_Server_IP:443/ or https://Synology_Server_Name:443/
- Photo Station: The port number is 443, so you can access Photo Station through the secure channel: https://Synology_Server_IP:443/photo/ or https://Synology_Server_Name:443/photo/

About importing certificate:

If you have a certificate issued by the trusted Certificate Authority (CA), please click **Import Certificate** to upload your own certificate and private key in order to host a valid SSL server. The certificate should match the private key. **Please keep your private key safely.**

Session Security

Click the Session Security tab to modify the security level for each DSM browsing session.

Control Panel - DSM Settings	00
	?
Login Style HTTP Service Options Session Security File Browser Router Port Set up a browser automatic logout timer for DiskStation Manager including the web applications. Logout timer (minutes): 9000 Enhance browser compatibility by skipping IP checking Enable this option to provide better compatibilities for browsers behind a proxy server, but it will lower the security level. OK Cancel	

To set the logout timer:

1 Enter any value between 1 to 65535 in Logout timer (minutes) to specify the idle time period before the automatic logout.

2 Click OK.

An automatic logout occurs if you are inactive for the specified time period.

To skip IP checking:

1 Tick Enhance browser compatibility by skipping IP checking.

2 Click OK.

If you access DiskStation through a HTTP proxy and encounter random logouts, you can skip IP checking to avoid this problem. Nonetheless, skipping IP checking will lower the security level.

Enable File Browser log

Click the File Browser tab to start monitoring the File Browser activities of all users, including Upload, Download, Delete, Rename, Move, Copy and Property set.

ntrol Panel - I	DSM Settings				e
→ ▲					
Login Style	HTTP Service Options	Session Security	File Browser	Router Port	
View Lo	gs				
· · · · · · · · · · · · · · · · · · ·					
21 ¹					

To enable File Browser log:

- 1 Tick Enable File Browser log.
- 2 Click OK.

To see the File Browser log: Click View Logs.

Note: For more information about system logs, see "Log" on Page 208.

Change Network Settings

Go to Main Menu > Control Panel > Network to modify the following network settings of your Synology DiskStation.

General

In this section, you can change your DiskStation identification on the network by entering a server name. You can also set up the domain name server and default gateway here.

	?
General Network Interface Tunnel Enter the server name, DNS server and default gateway information.	
Server Name: SynologyJobs	
DNS server: 192.168.0.1	
Default gateway: 192.168.0.1	
OK Cancel	

To rename DiskStation:

Enter the new server name in the Server Name field, and click OK.

To set up domain name server and default gateway:

Enter the IP address in the DNS server and Default gateway fields, and click OK.

Note: The DNS Server and Default Gateway fields will not be available for modification if all of your network interfaces are configured automatically, or if your DiskStation is connected to the Internet via PPPoE.

Network Interface

In this section, you can connect your DiskStation to the network via any of the following network interfaces.

K Control Panel - Network			00
A			?
	Interface Tunnel ○ Get network configuration ● Use manual configuration IP address: Subnet mask: Jumbo Frame: Network Status: IPv6 Setup	automatically (DHCP) 192.168.21.187 255.255.240.0 Disable Jumbo Frame, the MTU value is 1500 100, Full duplex, MTU 1500	?
		OK Cance	

LAN

If your DiskStation is connected to a local area network, you can click LAN or LAN [number] (for DiskStations with multiple LAN ports) on the left side to configure the network interface.

To decide how your DiskStation obtains IP address:

1 Choose either of the following:

- Get network configuration automatically (DHCP): Get IP address automatically via DHCP.
- Use manual configuration: Manually enter the IP address, subnet mask, DNS, and gateway.

2 Click OK.

To set up IPv6:

Click IPv6 Setup. See "IPv6 Setup" on Page 33 for more information.

Term Explanation

Jumbo Frames: Jumbo Frames are Ethernet frames with more than the standard 1500 bytes of Maximum Transmission Unit (MTU), allowing Ethernet transmission of large files to be more efficient. It can only be enabled under Gigabit network environment. To ensure Jumbo Frame works properly, all the computers and devices across the network accessing your DiskStation must support it and use the same MTU value.

Bond

For DiskStations with multiple LAN ports, you can combine multiple LAN interfaces into the **Bond [number]** interface with Link Aggregation¹. You can configure this interface as you would with any LAN interface.

General	Interface Tunnel	
Create Remove		
Bond 1 Connected	Get network configuration	automatically (DHCP)
PPPoE Disconnected	Use manual configuration	
	IP address:	192.168.21.187
	Subnet mask:	255.255.240.0
	Jumbo Frame:	Disable Jumbo Frame, the MTU value is 1500
	Network Status:	100, Full duplex, MTU 1500, Failed to establish IEEE 802.3ad connection.
	Physical devices:	LAN 1, LAN 2

- To combine multiple LAN interfaces with Link Aggregation:
- 1 Click Create.
- 2 Choose any of the following modes and click Next:

Note: Before you enable Link Aggregation, please make sure all LAN cables are connected to the same switch.

- IEEE 802.3ad Dynamic Link Aggregation: IEEE 802.3ad is the standard for most Link Aggregation implementations. A switch with 802.3ad support is required to use in this mode.
- Network Fault Tolerance only: If the LAN 1 port becomes unavailable, the system will use LAN 2 to
 provide service. You can select this option if your switch does not support IEEE 802.3ad.
- 3 Select two or more LAN interfaces that will be used for Link Aggregation, and click Next.
- 4 Configure the network settings and click Apply.
- To separate the Bond interface into multiple LAN interfaces:
- 1 Click the **Bond [number]** interface on the left side.
- 2 Click Remove and then click OK.

Term Explanation

Link Aggregation: For DiskStation with multiple LAN ports, you can set your DiskStation to connect multiple LAN cables to the network at the same time, or assign it with two IP addresses under different subnets. With Link Aggregation enabled, trunking (combining network bandwidth of aggregated LAN interfaces for multiplied connection speed) and network fault tolerances (maintaining network connection when any of the aggregated LAN interfaces is unavailable) are supported.

¹ Link Aggregation is only supported on DiskStations with multiple LAN ports.

Wireless Network

Click Wireless Network on the left side to connect Synology DiskStation to a wireless network.¹

DiskStation.	
Note: Wireless network is available only when a wireless dongle is plugged into the USB port of your Synology	

Control Panel - Network				0
				?
	Interface Tunnel			
Create				
Connected	Network name:	Synology-Left (802.11b/g/n)		
Connected	Signal strength:	100 %		
Wireless	Authentication:	WPAPSK		
Connected	Encryption:	ТКІР		
PPPoE Disconnected	 Get network configurat 	ion automatically (DHCP)		
	 Use manual configurati 	on		
	IP address:	192.168.22.209		
	Subnet mask:	255.255.240.0		
	Default gateway:	192.168.31.254		
	IPv6 Setup Discor	nnect		
			OK Cancel	

To set up a wireless network:

Click Set up a wireless network and choose from the following options (If you are already connected to a wireless network, click Disconnect first).

- Join a wireless network: The wizard will scan available wireless access points or Ad-Hoc networks with their signal strength and security status. If the access point you want to access is locked with password protection, the wizard will ask you to enter the password.
- Connect to a hidden wireless network: If an access point doesn't broadcast its SSID (Network Name) for
 privacy reason, it will not be discovered during the scanning. You can manually connect to those hidden
 access points by entering the required information manually.
- Create an Ad-Hoc Network: In addition to infrastructure network, in which a central access point (AP) bridges
 the wireless network to a wired Ethernet network, Ad-Hoc network is also widely used. In an Ad-Hoc network,
 all wireless devices within range of each other can communicate in a peer-to-peer fashion without a central
 access point. To set up an Ad-Hoc network, all wireless devices have to be configured for Ad-Hoc mode
 instead of the infrastructure mode.

Note: For a list of compatible wireless dongles, visit www.synology.com.

¹ Wireless network is supported on specific models only.

IPv6 Setup

When you are configuring the LAN or Wireless Network interface, click the IPv6 Setup button to change the IPv6 settings.

IPv6 Setup: LAN	
IPv6 setup: IPv6 address:	Auto
Prefix length: Default gateway:	
	OK Cancel
	OK Cancel

Synology DiskStation supports IPv4/IPv6 dual stack scheme. This means that both IPv4 and IPv6 can work simultaneously on Synology DiskStation. The default setting for IPv6 is Auto.¹

On the IPv6 Setup page, choose between the different setup types:

- Auto: DiskStation will automatically generate a local IPv6 address. This is generated based on DiskStation's MAC address.
- DHCP: DiskStation will automatically get an IPv6 address from the DHCP server which supports IPv6.
- Manual: Set up IPv6 manually by entering IPv6 address, Prefix length, and Default gateway.
- Off: Disable IPv6 support.

Note: If you want to join an IPv4 network environment with IPv6 address, you need to enable IPv6 Tunnel. See the section below for more information.

¹ IPv6 service is only supported on 08-series models or later (excluding 108j, 109j).

PPPoE

Click the **PPPoE** on the left side if your Synology DiskStation is connecting to a DSL or cable modem, and your Internet Service Provider (ISP) uses PPPoE (Point to Point Protocol over Ethernet).

🔏 Control Panel - Network			◎
← → ♠			?
General	Interface Tunnel		
Create			
Bond 1 Connected	Status:	Disconnected	
PPPoE Disconnected	IP address:		
	Subnet mask:		
	PPPoE Setting		
			OK Cancel

To connect to the Internet via PPPoE:

- 1 Click PPPoE Setting.
- 2 Enter the account information provided by your ISP.
- 3 Click OK.

Note: If you are still facing connection problems, contact your Internet Service Provider.

Tunnel

Tunnel is a technique that encapsulates IPv6 packets within IPv4 packets, allowing isolated IPv6 host or network to be compatible with IPv4 network backbone.

Click the Tunnel tab to allow your DiskStation to gain Internet access via IPv6 under the IPv4 environment.

🔏 Control Panel - Network		00
← → ♠		?
General Network Interface Tunnel		
Enable tunnel to allow IPv6 protocol to tunnel ov	er the existing IPv4 network structure	
🗹 Enable tunnel		
Server address:		
 Connect anonymously 		
 Connect with an existing account 		
User name:		
Password:		
Connection status: Disconnected		
External address:		
		OK Cancel
L		

To setup IPv6 Tunnel:

- 1 Tick Enable tunnel.
- 2 In Server address, enter the hostname or the IP of the tunnel service provider.
- **3** Select if you want to **Connect anonymously** or **Connect with an existing account**. If you choose the latter, please also enter **User name** and **Password**.
- 4 Click OK to save the settings.

Note:

- Your external IPv6 address may be automatically updated by the service provider. However, Synology DiskStation will not remove the old IPv6 address immediately.
- If you are still facing connection problems, contact your Internet Service Provider.

Modify Regional Options

Go to Main Menu > Control Panel > Regional Options to configure the following regional options.

Language

Click the Language tab to set the language for Synology DiskStation Manager, email notification, and specify the codepage for Unicode filename conversion.

ime Language	
Display Language	
Select the display langu	lage.
Display language:	English
Email Language	
Select the language for	email notification.
Email language:	English 👻
Codepage	
Select the codepage for	non-Unicode filename conversion.
Codepage:	English

- Display Language: Choose your preferred display language, or have it the same as your default browser setting.
- Email Language: Set your preferred language for email notification from Synology DiskStation.
- Codepage: Synology DiskStation uses Unicode to avoid file inaccessibility from computers using different languages. But for the following devices or applications to use Synology DiskStation services without problem, you need to choose the appropriate codepage for them:
 - Computers without Unicode support
 - Applications that convert non-Unicode strings to Unicode, such as FTP service, UPnP support, music metadata indexing

Set Up Time

Click the **Time** tab to set up the time. You can check the current time, manually set the server's date and time, or have them set automatically using a network time server.

🕻 Control Panel - Regional Options		00
← → ♠		?
Language		
Current Time Wed Jan 26 18:40:07 2011		
Time Zone		
Time zone:	(GMT+08:00) Beijing, Chongqing, Hong Kong, 💙	
Time Setting		
Manually		
Date:	2011/1/26	
Time:	18 💙 : 40 💙 : 07 💙	
Synchronize with a NTP serve	er	
Sync frequency:	Daily	
Network time server:	~	
Update Now		
	ОК Сал	cel

To set the time zone:

- 1 Choose a time zone from the Time zone drop-down menu.
- 2 Click OK.

To set the date and time manually:

- 1 Choose Manually and select the date and time.
- 2 Click OK.

To sync the date and time with NTP server:

- 1 Make sure a valid DNS server IP has been entered at Main Menu > Control Panel > Network and that your DiskStation is connected to the Internet.
- 2 Choose Synchronize with a NTP server.
- **3** Assign a sync frequency from the drop-down menu.
- 4 Enter the address of your network time server, or choose a server from the drop-down menu.
- 5 Click Update now to make sure you can successfully synchronize time with the server.
- 6 Click OK.

More Information
Network Time Protocol (NTP) is used to synchronize the time of all clients and servers over a data network.
Below are a few recommended NTP servers:
 time.apple.com
 time.asia.apple.com
 time.euro.apple.com
time.nist.gov
For more information about NTP Server, please visit http://www.eecis.udel.edu/~mills/ntp/servers.html

Use Energy Saving Features

Go to Main Menu > Control Panel > Power to manage the energy saving features provided by DSM.

Control Panel - Power	90
	?
General Settings Beep Control UPS Power Schedule HDD Hibernation	
Power Recovery	
Restart automatically after a power failure	
I Enable Wake on LAN 1	
S Enable Wake on LAN 2	
Fan speed mode	
Cool Mode	
• Quiet Mode	
O Low-Power Mode	
ОК	Cancel

Manage General Settings

Click the General Settings tab to manage the following power control settings.

HDD Hibernation

You can manage HDD hibernation for all internal or external disks on your DiskStation.

Control Panel - Power		08
• > 🍙		?
General Settings	Beep Control UPS Power Schedule HDD Hibernation	
- HDD Hibernation		
The internal hard dis	(s) and the external SATA disk will hibernate after being inactive for the configured time period.	
Time:	20 minutes	
The USB hard disk w	Il hibernate after being inactive for the configured time period.	
Time:	none 🗸	
	OK Cancel	

When a disk enters HDD hibernation mode, it will stop spinning and become inactive, which not only saves energy but also extends the disk's lifespan.

To manage HDD hibernation:

1 Choose any of the following from the Time drop-down menus:

- A time period: Set the internal hard drive, external eSATA or USB disk to HDD hibernation mode after the specified period of inactivity.
- None: Disable HDD hibernation.
- 2 Click OK.

Power Recovery

_ _

You can set the following power recovery functions:

- Boot up DiskStation automatically after power has been restored if the DiskStation was shut down abnormally due to a power failure.
- Enable Wake on LAN to allow remote startup.¹

Power Recovery	
Restart automatically after a power failure	
S Enable Wake on LAN 1	
S Enable Wake on LAN 2	

To enable the power recovery function:

- **1** Tick Restart automatically after a power failure.
- 2 Click OK.

To enable Wake on LAN:

1 Tick Enable Wake on LAN (or Enable Wake on LAN [number] for DiskStations with multiple LAN ports).

¹ Wake on LAN is supported on specific models only. See "Appendix A: Synology DiskStation Specifications" on Page 219 for more information.

2 Click OK.

More Information

About Wake on LAN: After Wake on LAN is enabled for your DiskStation, you can turn on Synology DiskStation over the local area network or the Internet by using a WOL (Wake on LAN) application. Activate the function by entering DiskStation's IP address (or DDNS hostname) and MAC address.

Wake on LAN works only after Synology DiskStation is shut down properly by pressing the **Power** button or selecting **Shutdown** from DSM's Main Menu, and its power cord is plugged into a working power outlet.

Note: You can also perform Wake on LAN for supported Synology DiskStation with Synology Assistant. See the Help of Synology Assistant for more information.

Fan speed mode

You can choose the appropriate fan speed mode according to your need (Cool Mode or Quiet mode), or according to the size of your hard disks (2.5" hard disk mode or 3.5" hard disk mode), depending on the DiskStation models you are using.

Cool Mode or 3.5" hard disk mode will provide better cooling effect, while Quiet Mode or 2.5" hard disk mode can further reduce the noise level.

Fan speed mode	
Cool Mode	
 Quiet Mode 	
O Low-Power Mode	

Manage Beep Control

Click the **Beep Control** tab to control beep alert when abnormal situations occur.

80	Control Panel - Power	0 0
+		?
	General Settings Beep Control UPS Power Schedule HDD Hibernation	
	Control beep alert when the following abnormal situations occur.	
	Seep when fan malfunctions	
	Seep when volume crashes	
	Seep when extension unit fan malfunctions	
	Seep when system powers on	
	Seep when system shuts down	

To manage beep control:

Tick or uncheck the checkboxes and click OK.

Manage UPS

Under the UPS tab, you can enable UPS support to prevent data loss when an unexpected power failure occurs.

🔀 Control Panel - Power	⊙ ⊙
	?
General Settings Beep Control UPS	Power Schedule HDD Hibernation
Connecting an USB UPS can prevent data loss wh Mode, stop all services and unmount all data volu	en there is a power failure. During a power failure, the system will enter Safe mes to prevent data loss.
Enable UPS support	
Network UPS server IP:	
Time before DiskStation enters Safe Mode:	Same as server

To enable local UPS support:

- 1 Connect a local UPS to the USB port of your DiskStation.
- 2 Tick the Enable UPS support checkbox.
- 3 Set the Time before DiskStation enters Safe Mode.

Note: If the local UPS is low on battery, or the network UPS server enters Safe Mode, DiskStation will ignore the specified time period and enter Safe Mode immediately.

- **4** You can decide whether to send a shutdown signal to the UPS when the system enters Safe Mode. Most UPS can restore power supply automatically when the power recovers.
- 5 Click OK.

Term Explanation

When entering **Safe Mode**, the system will first stop all services and unmount all data volumes to prevent data loss, so that when the UPS shuts down, the system will be turned off safely. If the Power Recovery function has been enabled, the system will restart automatically when power is restored.

To enable network UPS support:

- 1 Tick the Enable UPS support checkbox.
- 2 Enter the Network UPS server IP. (Make sure the server allow connection from Synology DiskStation)
- 3 Set the Time before DiskStation enters Safe Mode.
- 4 Click OK.

More Information

Network UPS support requirements:

- You will need another server connected to an UPS that can be communicated via internet, i.e. a network UPS server.
- A network device, such as a switch or a hub, should be connected to the same UPS, so that Synology DiskStation can still communicate with network UPS server during an unexpected power failure.

To enable Network UPS server:

- 1 Connect a USB UPS to Synology DiskStation.
- 2 Tick the Enable UPS support checkbox.
- 3 Tick the Enable Network UPS Server checkbox.
- 4 Enter the IP addresses which will be allowed to connect to Synology DiskStation.
- 5 Click OK.

Power Schedule

Click the Power Schedule tab to start up or shut down automatically at a specified time.

🔏 Control Panel - Power		8
← →		?
General Settings Beep Control	UPS Power Schedule HDD Hibernatio	n
Create Edit Delete	Summary Save	
✓ Enabled	Trigger time	Action
	Daily 0:00	Startup

To add a new startup/shutdown schedule:

- 1 Click the Create button to open the Add Schedule dialog.
- 2 Choose Startup or Shutdown.
- 3 Set the Date and Time for startup or shutdown.
- 4 Click OK.
- 5 Click Save.

The new schedule will be added to the schedule list.

To edit a schedule:

1 Select the schedule and click Edit to edit the schedule.

- 2 Click OK.
- 3 Click Save.

To enable or disable a schedule:

- 1 Tick or uncheck the checkbox for the schedule.
- 2 Click Save.

To enable or disable all schedules:

- 1 Tick or uncheck the Enabled checkbox.
- 2 Click Save.

To delete a schedule:

- 1 Select a schedule and click Delete.
- 2 Click Save.

To view schedule summary:

Click Summary to browse the weekly schedule for startup/shutdown.

Note: You can specify up to 100 schedules for one DiskStation.

Manage Storage Space

Chapter

Before sharing Synology DiskStation services with your users, you need to set up storage spaces first. This chapter explains how to use Storage Manager to set up storage space (including volumes, Disk Groups, iSCSI Targets, iSCSI LUNs), access external disks connected to DiskStation, and check hard drive's status.

What is Volume and Disk Group?

With the hard drives installed on your DiskStation, you can create volumes for storing and sharing your files.

Note: For more information about setting up file sharing on your DiskStation, see "Chapter 7: Set Up File Sharing" on Page 67.

Volume Creation Methods

For Synology DiskStation with 2 or more bays, you can create a volume with the following methods:

- Combine several hard disks into a volume: This method allows you to create a volume with data protection.
 See "Create a Volume Using the Quick Mode" on Page 45 and "Create a Volume by Combining Several Hard Disks" on Page 46 for more information.
- Combine several hard disks into a Disk Group, and then create multiple volumes on the Disk Group: This
 method not only allows you to create a volume with data protection, but you can also specify volume capacity
 according to your needs. See "Create a Volume by Allocating Partial Space on a Disk Group" on Page 46 and
 "Create a Disk Group" on Page 47 for more information.

Synology DiskStation Supported RAID Types

For Synology DiskStation with 1 bay, you can create a **Basic** volume. For Synology DiskStation with 2 or more bays, you can choose between several RAID types during volume or Disk Group creation. Some of the RAID types can provide data protection, which means data integrity is protected when one or two of the hard drives fail.

RAID Type	HDD #	Allowed Failed HDD #	Description	Capacity
	1	0	Synology Hybrid RAID (SHR) can optimize the	1 x (HDD size)
	2 - 3	1	storage capacity when combining hard drives with different sizes. If a SHR storage space is composed of two or three hard drives, data	
SHR ¹	≧4	1 - 2	integrity is protected when one of the hard drives fail. If a SHR storage space is composed of four or more hard drives, data integrity is protected when one or two of the hard drives fail.	Optimized by the system
Basic	1	0	A Basic volume is created with one hard drive as an independent unit. When creating a Basic volume, you can select only one hard drive at a time.	1 x (HDD size)
JBOD	≧2	0	JBOD is a collection of hard drives.	Sum of all HDD sizes
RAID 0	≧2	0	Combining multiple disks to build a storage space, RAID 0 offers Striping , a process of dividing data into blocks and spreading the data blocks across several hard drives, but without safety measures.	(HDD #) x (Smallest HDD size)

¹ RAID types except for Basic are supported on specific models only. See "Appendix A: Synology DiskStation Specifications" on Page 219 for more information.

Based on DSM 3.1

RAID Type	HDD #	Allowed Failed HDD #	Description	Capacity
RAID 1	2 - 4	(HDD #) - 1	The system will write identical data to each hard drive at the same time, so data integrity is protected when at least one disk is normal.	Smallest HDD size
RAID 5	ID 5 ≧3 1 This configuration includes a backup option. It uses parity mode to store redundant data on space equal to the size of one disk for later data recovery.		(HDD # – 1) x (Smallest HDD size)	
RAID 5+Spare	ID 5+Spare ≥4 2 A RAID 5+Spare storage space requires at least four drives, one of which will act as a hot spare drive to rebuild the failed drive of the volume automatically.		(HDD # – 2) x (Smallest HDD size)	
RAID 6	parity mode to store redundant data on space		•	(HDD # – 2) x (Smallest HDD size)
RAID 10	RAID 10 (even number) ≧4 1 HDD within each RAID 1 group		RAID 10 has the performance of RAID 0 and data protection level of RAID 1 . RAID 10 combines two hard drives into a RAID 1 group, and combines all the groups with RAID 0.	(HDD # / 2) x (Smallest HDD size)

Manage Volumes or Disk Groups with Storage Manager

Go to Main Menu > Storage Manager and click the Volume or Disk Group tab to create, set up, and manage volumes or Disk Group.

Volume	Disk Group HDD Man	agement iSCSI L	JN iSCSI Target		
Create R	emove Manage	Beep off			
2	Volume	Properties			
Volume 1	Used: 1.39%	Name		Volume 1	
<u></u>	Available: 98.61%	Туре		RAID 1 (With da	a protection)
		File System		ext4	
Volume 2		Status		Normal	
		Capacity		912.46 GB	
- 1		Used		12.64 GB	
Volume 3		Available		899.82 GB	
*		Disk Info			
Volume 4			Number	Disk Size	Status
		DS1010+	Disk 1	931.51 GB	Normal
		DS1010+	Disk 2	931.51 GB	Normal

Create a Volume

The Volume Creation Wizard allows you to create a volume on your DiskStation in several ways.

Note: Volume creation might take a while to finish, depending on the capacity to be created.

 Volume Creation Wizard
 Image: Choose a mode

 Choose a mode
 Image: Choose a mode

 It is recommended for general users. The system will create a Synology Hybrid RAID (SHR) which optimizes space allocation based on the number of installed disks, then create a volume on it. Data protection of hard disk fault-tolerance is available when two or more hard disks are installed.

Custom

It is for advanced users who wish to choose RAID types for the storage and create multiple volumes based on their needs.

Create a Volume Using the Quick Mode

The system will create a SHR volume, which optimizes space allocation based on the capacity of the chosen hard disks.

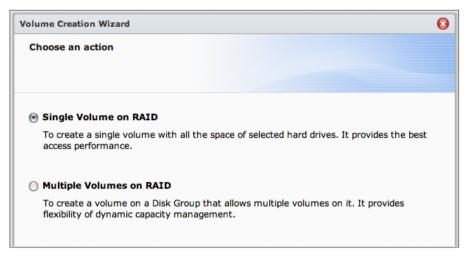
Volume Creation Wizard			8		
	Choose	disks			
	_				
	2	Number	Model	Disk Size	
	V	Disk 4 (DX510)	ST31000333AS	931.51 GB	
		Disk 5 (DX510)	ST31000333AS	931.51 GB	

To create a SHR volume using the Quick mode:

- 1 Click the Volume tab.
- 2 Click Create to open the Volume Creation Wizard.
- 3 Choose the Quick mode, and click Next.
- 4 Choose the hard disks you want to add to the volume, and click Next.
- 5 If you select 4 or more disks in the previous step, choose the data protection level according to your needs.
- 6 Click Yes to confirm, and then choose whether to perform disk check. Click Next to continue.
- 7 Click Apply to start volume creation.

Create a Volume by Combining Several Hard Disks

This action allows you to create a volume by combining several hard disks.



To create a volume by combining several hard disks:

- 1 Click the Volume tab.
- 2 Click Create to open the Volume Creation Wizard.
- 3 Choose the Custom mode, and click Next.
- 4 Choose Single Volume on RAID, and click Next.
- 5 Choose the hard disks you want to add to the volume, and then click Next.
- 6 Click Yes to confirm, and then choose available RAID type for the new Disk Group. Click Next to continue.
- 7 Choose whether to perform disk check, and then click Next.
- 8 Click Apply to start volume creation.

Create a Volume by Allocating Partial Space on a Disk Group

This action allows you to create a volume by allocating partial space on a Disk Group.

Volume Creation Wizard Image: Create or select a Disk Group Image: Create a new Disk Group Image: Create a new Disk Group that allows multiple volumes on it. You can create a volume on it later. Image: Choose an existing Disk Group	
Create or select a Disk 0	Group
🔵 Create a new Disk Gr	oup
	p that allows multiple volumes on it. You can create a volume on
Choose an existing D	isk Group
Disk Group:	Disk Group 1 (Available: 923.99 GB) 💙

To create a volume by allocating partial space on a Disk Group:

- 1 Click the Volume tab.
- 2 Click Create to open the Volume Creation Wizard.
- 3 Choose the Custom mode, and click Next.
- 4 Choose Multiple Volume on RAID, and click Next.

- 5 Choose either of the following:
 - Create a new Disk Group: This action will create a new Disk Group from unused hard disks, and then create a volume on the newly-created Disk Group. Click Next and do the following:
 - a Choose the hard disks you want to add to the Disk Group, and then click Next.
 - **b** Click Yes to confirm, and then choose available RAID type for the new Disk Group. Click Next to continue.
 - c Choose whether to perform disk check, and then click Next.

Note: The newly-created Disk Group will be displayed under the **Disk Group** tab. You can also create a Disk Group by following the instructions of "Create a Disk Group" (shown blow).

- Choose an existing Disk Group: This action will create a volume on an existing Disk Group. Choose the Disk Group from the drop-down menu, and click Next.
- 6 On the Allocate volume capacity page, enter a number in the Allocate Size (GB) field to specify the volume capacity, and click Next.
- 7 Click Apply to start volume creation.

Create a Disk Group

You can also create a Disk Group on your DiskStation, and then create multiple volumes on the created Disk Group.

Choose	e disks		
I	Number	Model	Disk Size
V	Disk 4 (DX510-1)	ST31000333AS	931.51 GB
	Disk 5 (DX510-1)	ST31000333AS	931.51 GB

To create a Disk Group:

- 1 Click the Disk Group tab.
- 2 Choose the hard disks you want to add to the Disk Group, and then click Next.
- 3 Click Yes to confirm, and then choose available RAID type for the new Disk Group. Click Next to continue.
- 4 Choose whether to perform disk check, and then click Next.
- 5 Click Apply to start Disk Group creation.

To create volumes on the created Disk Group:

Follow the instructions of "Create a Volume by Allocating Partial Space on a Disk Group" on Page 46. Choose **Choose an existing Disk Group** in step 5, and choose the Disk Group to create a volume on it.

More Information

About Shared Folder Quota: DSM doesn't come with shared folder quota support. However, you can limit the maximum size of a shared folder by doing the following:

- 1 Create a volume and specify its capacity by following the instructions of "Create a Volume by Allocating Partial Space on a Disk Group" (shown above).
- 2 Create a single shared folder on the newly-created volume. (See "Set Up Shared Folders" on Page 79 for more information.)
- **3** After the setup is complete, the maximum size of the shared folder will be limited to be the same as the volume capacity.

Remove a Volume or Disk Group

- 1 Click the Volume or Disk Group tab.
- 2 Select the volume or Disk Group you want to remove.
- 3 Click **Remove** and follow the wizard to remove the volume or Disk Group.

Note: Data stored on the volume or Disk Group will be deleted after you remove the volume or Disk Group. Be careful using this option.

Repair a Volume or Disk Group

The repair function is available for **RAID 1**, **RAID 10**, **RAID 5**, **RAID 5+Spare**, **RAID 6**, and SHR volumes or Disk Groups. Depending on your RAID types, When one or two of the hard drives in the volume or Disk Group fails, it will be in the **degraded** mode. You can repair the volume or Disk Group by replacing the crashed disk(s) to keep the data on the volume or Disk Group protected.

Note: Synology DiskStation provides the **hot swapping** function, allowing you to replace the crashed disk without shutting down your Synology DiskStation.¹

To identify and replace the crashed disk:

1 Identify the crashed disk by doing one of the following:

- Check the hard drive icons in **Storage Manager**. The icon of the crashed disk will appear with an exclamation mark.
- Go to Information > Status, and check the status column in the Hard disk(s) section. (See "Check System Information" on Page 206 for more information.)
- Check the LED indicators on your DiskStation. (See "Appendix B: LED Indication Tables" on Page 226 for more information.)

2 Pull out the hard drive tray to replace the crashed disk with a new one.

Note: The replacement hard drive size must be larger or equal to the size of the smallest disk in the volume or Disk Group.

To repair a volume or Disk Group:

- 1 Click the Volume or Disk Group tab.
- 2 Click Manage.

3 Select Repair and follow the wizard to repair the volume or Disk Group.

Note:

- The status of the repairing hard drive must be Initialized or Not Initialized.
- If your volume is created by allocating partial space on a Disk Group (see "Create a Volume by Allocating Partial Space on a Disk Group" on Page 46 for more information), you need to repair its Disk Group.

¹ This is supported on specific models only. See "Appendix A: Synology DiskStation Specifications" on Page 219 for more information.

Change RAID Type

If you have created a **Basic**, **RAID 1** or **RAID 5** volume or Disk Group, you could add a new drive to the Synology DiskStation, and then use Storage Manager to change the RAID type.

Volume Manager Wizard	8
Choose an action	
 Repair Choose this option to repair a degraded volume. After repairing, if there is unallocated disk space, the system will expand the volume size automatically. Expand the volume by adding hard disks Choose this option to expand the volume by adding hard disks. 	
Expand the volume with unallocated disk space Choose this option to expand the volume with unallocated disk space.	
Change RAID type Choose this option to change to another RAID type.	
Next	

Available RAID type change includes:

- Basic to RAID 1, RAID 5 or RAID 5+Spare
- RAID 1 to RAID 5 or RAID 5+Spare
- Add mirror disk to RAID 1
- RAID 5 to RAID 5+Spare or RAID 6
- RAID 5+Spare to RAID 6

To change the RAID type:

- 1 Click the Volume or Disk Group tab.
- 2 Select the volume or Disk Group you want to change.
- 3 Click Manage.
- 4 Choose Change RAID type and follow the wizard to complete the setup.

Note:

- The status of the volume or Disk Group must be normal.
- The status of the added drive must be Initialized or Not Initialized.
- If you want to change the RAID type, enough number of hard drives for the new type is required. See "Synology DiskStation Supported RAID Types" on Page 43 for the required amount of disks for the RAID type.
- The size of the replacement hard drive must be larger than the smallest disk size of the volume or Disk Group.

Expand a Volume or Disk Group

You can expand the storage capacity of a volume or Disk Group.

Expand a Volume by Changing Volume Size

If your volume is created by allocating partial space on a Disk Group, you can do the following to expand the volume.

To expand a volume by changing volume size:

1 Under the Volume tab, click the volume you want to expand.

- 2 Click Edit.
- 3 Enter a number in the Size (GB) field, or click Max to automatically fill in the number of the available size on the Disk Group.

Note: The number must be larger than the original volume capacity.

4 Click OK.

Expand a Volume or Disk Group by Replacing with Larger Disks

When the internal HDD storage runs out of space, you can follow the steps below to replace a larger HDD without losing the original data.

For one-bay models:

- 1 Turn off the Synology DiskStation.
- 2 Replace the internal hard drive with a larger one.
- 3 Turn on the Synology DiskStation.
- 4 Reinstall the system. See "Reinstall Synology DiskStation" on Page 215 for more information.
- 5 Connect the replaced hard drive to the USB or eSATA port.
- 6 Copy the data from the replaced hard drive to the new hard drive.
- 7 Remove the replaced hard drive.

For Basic or RAID 0 on models with two or more bays:

- 1 Back up all data stored on the Synology DiskStation.
- 2 Turn off the Synology DiskStation.
- 3 Replace the internal hard drives with larger ones.
- 4 Turn on the Synology DiskStation
- 5 Reinstall the system. See "Reinstall Synology DiskStation" on Page 215 for more information.
- 6 Copy the backup data to the new volume or Disk Group.

For RAID 1 and RAID 5, RAID 5+Spare, and RAID 6:

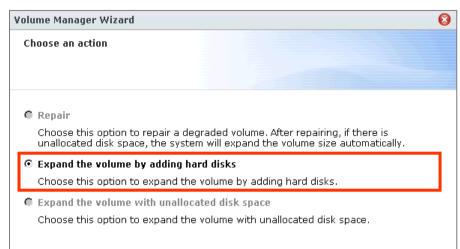
- 1 Turn off the Synology DiskStation (skip this step for models that support disk hot swapping).
- 2 Replace the first internal hard drive with a larger hard drive.
- **3** Turn on the Synology DiskStation and repair the volume or Disk Group. See "Repair a Volume" on Page 48 for more information.
- 4 Repeat step 1 to 3 until all internal hard drives are replaced with larger hard drives.
- 5 The system will expand the volume or Disk Group automatically.

Note:

- Before replacing the spare disk of a RAID 5+Spare volume or Disk Group, you need to click Manage, click Change RAID type, and then follow the wizard to change the volume or Disk Group.
- When the system is removing a volume or Disk Group, all enabled services on other volumes will be temporarily stopped. When the volume or Disk Group is removed successfully, those services will be resumed.
- You can only remove the hard drive when the volume or Disk Group is in Normal status; otherwise it will cause data loss. If the volume or Disk Group is in Degraded status, please repair the volume or Disk Group before replacing it.

Expand a Volume or Disk Group by Adding Disks

If you have empty hard drive bays in your Synology DiskStation, you can expand **JBOD**, **RAID 5**, **RAID 5+Spare**, **RAID 6**, and **SHR** volumes or Disk Groups by adding disks.



To expand a volume or Disk Group by adding disks:

1 Install a new hard drive for your Synology DiskStation.

- 2 Select the volume or Disk Group you want to expand.
- 3 Click Manage and choose Expand the volume by adding hard disks (for volume expansion) and Expand the RAID by adding hard disks (for Disk Group expansion).
- 4 Select the hard drive in the Choose disks section.
- 5 Follow the wizard to complete the setup.

Note:

- For RAID 5, RAID 5+Spare, and RAID 6 volume or Disk Group, the hard drive size must be larger than the smallest disk in the volume or Disk Group.
- The status of the volume or the Disk Group must be Normal.
- The status of the added disk must be Initialized or Not Initialized.
- You can also expand your volume with Synology Expansion Unit using the same way.¹

¹ Synology Expansion Unit is supported on specific models only. Please visit www.synology.com.

Manage iSCSI Target with Storage Manager

Go to Main Menu > Storage Manager and click the iSCSI Target tab to manage iSCSI Targets on your Synology DiskStation. You can manage up to 10 or 32¹ iSCSI Targets on one Synology DiskStation, and map iSCSI LUNs to them.

Storage Manager	•		② ● ● ●
Volume Dis	k Group HDD Management iSCSI LUN	iSCSI Target	
Create Rer	nove Edit Disable iSNS		
	Properties		(
Target-1	Name	Target-1	
_	IQN	iqn.2000-01.com.synology:PMDemo.name	
1	Service Status	Ready	
Target-2	Authentication	None	
0	Multiple Sessions	Disable	
S.	Header digest	Disable	
Target-3	Data digest	Disable	
_	Maximum receive segment bytes	262144 Bytes	
	Maximum send segment bytes	4096 Bytes	

Term Explanation

iSCSI

iSCSI is an Internet Protocol based storage networking standard for linking data storage facilities. By carrying SCSI commands over IP networks, iSCSI can facilitate data transfers over local area networks (LANs), wide area networks (WANs), or the Internet.

Through iSCSI, the space on storage server will be regarded as local disks by client's operation system. But in reality, all data transferred to the disk are actually transferred over network to the storage server.

iSCSI Target and LUN

In SCSI terminology, A LUN (logical unit number) represents an individually addressable (logical) SCSI device that is part of a physical SCSI device (called "Target").

An iSCSI environment emulates the connection to a SCSI hard disk. An iSCSI Target is like a connection interface, and LUNs are essentially numbered disk drives. When an iSCSI Target is connected by an iSCSI initiator (a client), all the LUNs mapped to the iSCSI Target are virtually attached to the client's operation system. Therefore, Initiators can establish and manage file systems on iSCSI LUNs, as they would a raw SCSI or IDE hard drive.

To create an iSCSI Target:

- 1 Click the Create button.
- 2 Enter the iSCSI Target's information, including Name, IQN, and whether to enable CHAP authentication.
- 3 Click Next.
- 4 Set up iSCSI LUN mapping. Select Create a new iSCSI LUN or Map existing iSCSI LUNs.

Note: For more information about creating iSCSI LUNs, see "Manage iSCSI LUNs with Storage Manager" on Page 54.

5 Click Next.

6 Click Back to modify or Apply to confirm settings.

¹ 32 iSCSI targets are supported on specific models only. Please visit www.synology.com.

Term Explanation

IQN: IQN (iSCSI Qualified Name) is a set of unique name for an iSCSI Target. It should not conflict with iSCSI Target IQNs on other servers. IQN must be less than 128 characters and can include letters(case insensitive), numbers, colons, dashes, and dots. The suggested naming format is iqn.[date].[domain]:[device identifier], for example: **iqn.2000-04.com.synology:storage.diskarray.1**.

CHAP authentication: If you select **CHAP**, the server will be able to verify the client's identity. In **Mutual CHAP**, both the client and the server will authenticate each other. Username can be composed of 1 ~ 12 letters and numbers, and password can be composed of 12 ~ 16 letters and numbers.

To remove an iSCSI Target:

You can remove an iSCSI Target and any mapped iSCSI LUNs. Note that when removing an iSCSI LUN, all data on the iSCSI LUN will be deleted.

- 1 Select the iSCSI Target you want to remove.
- 2 Click Remove.
- 3 If you want to remove mapped iSCSI LUNs, select **Delete mapped iSCSI LUNs as well** and select the ones you want to remove.
- 4 Click OK.

To edit an iSCSI Target:

- 1 Select the iSCSI Target you'd like to edit.
- 2 Click Edit.
- 3 Edit the settings to your preference. Click OK to save the changes.

Term Explanation

CRC Checksum: Enable CRC Checksum to check if any error occurred during data transmission.

Multiple Sessions: Allow multiple sessions from one or more initiators to connect to the same iSCSI Target at the same time. To protect your files from corruption or unexpected data loss, it is strongly suggested that you use a shared file system or cluster system such as VMware Virtual Machine File System (VMFS) and Oracle Cluster File System (OCFS).

Masking: Masking allows an iSCSI Target to be exclusively accessed by specified iSCSI initiator IQNs.

To enable or disable an iSCSI Target:

- 1 Select the iSCSI Target you'd like to enable or disable.
- 2 Click Enable or Disable.

To register iSCSI Targets with an iSNS server:

- 1 Click **iSNS**.
- 2 Tick Enable iSNS.
- 3 Enter the IP address of the iSNS server in the iSNS Server field.
- 4 Click OK.

Term Explanation

iSNS

iSNS (Internet Storage Name Service) are often used in a local area network with complex storage deployment, facilitating IT staffs to discover storage and manage iSCSI devices. You can register all the iSCSI Targets on your DiskStation with the iSNS server on your network.

Manage iSCSI LUNs with Storage Manager

Go to Main Menu > Storage Manager and click the iSCSI LUN tab to manage iSCSI LUNs on your Synology DiskStation. An iSCSI LUN (logical unit number) can be mapped to multiple iSCSI Targets to perform storage operations such as read or write. You can create up to 10 or 256¹ iSCSI LUNs on your DiskStation.

iSCSI LUN Creation Wizard	
Choose a LUN type	
🖲 iSCSI LUN (Regular Fil	es)
This type of iSCSI LUN provisioning.	ovides flexibility of dynamic capacity management with Thin
🔵 iSCSI LUN (Block-Leve	el) - Single LUN on RAID
This type of iSCSI LUN pr	ovides the best access performance.
Name:	LUN-1
iSCSI Target mapping:	Create a new iSCSI target
🔵 iSCSI LUN (Block-Leve	el) - Multiple LUNs on RAID
	created on a Disk Group and provides flexibility of dynamic th optimized access performance.
Name:	LUN-1
iSCSI Target mapping:	Create a new iSCSI target
	Next Cancel

There are 2 ways to create an iSCSI LUN:

- Designate several disks (Block-level).
- Designate a portion of your volume space (Regular Files).

If you create an iSCSI LUN with several disks, you can repair or expand it, or change its RAID type, just like using a volume. (Please see Page 44 of this chapter for detailed information about volume management.)

To create an iSCSI LUN:

- 1 Click Create.
- 2 Select Custom.
- 3 Click Next.
- 4 Select the iSCSI LUN type you want to create.
 - iSCSI LUN (Regular Files): The iSCSI LUN is created by designating a portion of the volume space for its usage. Set up iSCSI LUN configuration, including Name, Location, Thin Provisioning, Capacity (GB), iSCSI Target mapping.
 - iSCSI LUN (Block-Level) Single LUN on RAID: The iSCSI LUN is created by combining several hard disks. Enter the name for the LUN, choose iSCSI Target mapping and click Next. You can create and manage the LUN just like working with a volume. See "Create a Volume by Combining Several Hard Disks" on Page 46 for more information about volume creation.
 - iSCSI LUN (Block-Level) Multiple LUN on RAID: The iSCSI LUN is created by allocating partial space on a Disk Group. Enter the name for the LUN, choose iSCSI Target mapping and click Next. You can create and manage the LUN just like working with a volume. You can repair or expand it, or change its RAID type, just like using a volume. See "Create a Volume by Allocating Partial Space on a Disk Group" on Page 46 for more information about volume creation.

¹ 256 iSCSI LUNs are supported on specific models only. Please visit www.synology.com.

5 About iSCSI Target mapping:

- If you choose Map existing iSCSI targets from the iSCSI Target mapping drop-down menu, you will be
 prompted to choose an existing iSCSI Target.
- If you choose Create a new iSCSI target from the iSCSI Target mapping drop-down menu, you will be
 prompted to create a new iSCSI Target.

Note: For more information about iSCSI Target creation, see "Manage iSCSI Target with Storage Manager" on Page 52.

6 Follow the wizard to complete the setup.

Term Explanation

Thin Provisioning: Thin Provisioning is a method for optimizing storage utilization by allocating storage space in a dynamic and on-demand manner. This setting is only available for iSCSI LUN (regular files).

iSCSI Target Mapping: Map the iSCSI LUN to one or more iSCSI Targets.

To remove an iSCSI LUN:

By removing an iSCSI LUN, all data on the iSCSI LUN will be deleted. The connection between the iSCSI LUN and any mapped iSCSI Target will also be lost.

- 1 Select the iSCSI LUN you'd like to remove.
- 2 Click Remove.
- 3 Click Cancel to abort or OK to confirm.

To edit an iSCSI LUN:

- 1 Select the iSCSI LUN you'd like to edit.
- 2 Click Edit.
- 3 Edit the **Properties** and **Mapping** to your preference.
- 4 Click OK to save the settings.

Note: To avoid data loss when editing iSCSI LUN capacity, you can only make it larger than the current size.

Manage Hard Disks with Storage Manager

Go to Main Menu > Storage Manager and click the HDD Management tab to manage your hard disks.

Volume		Management	iscsi lun	iSCSI Target		
Cache Manage	ement S.M.A.R.T	. Test S.M.	A.R.T. Info	Disk Info Refres	h	
Number	Model	Disk Size	Temperature	S.M.A.R.T. Status	Status	Volume
Disk 1	ST31000333AS	931.51 GB	41 °C / 106 °F	Normal	Normal	Volume 1
Disk 2	ST31000333AS	931.51 GB	45 °C / 113 °F	Normal	Normal	Volume 1
Disk 3	ST31000333AS	931.51 GB	44 °C / 111 °F	Normal	Normal	Disk Group 1
Disk 4	ST31000333AS	931.51 GB	45 °C / 113 °F	Normal	Normal	iSCSI LUN (LUN-4)
Disk 5	ST31000333AS	931.51 GB	43 °C / 109 °F	Normal	Normal	Volume 2
Disk 1 (DX510	ST31000333AS	931.51 GB	38 °C / 100 °F	Normal	Normal	Volume 2
Disk 2 (DX510	WD800AAJS-22L7A0	74.53 GB	36 °C / 97 °F	Normal	Normal	Disk Group 2
Disk 3 (DX510	ST3808110AS	74.53 GB	36 °C / 97 °F	Normal	Normal	Disk Group 2
Disk 4 (DX510	ST31000333AS	931.51 GB	40 °C / 104 °F	Normal	Not Initialized	-
Disk 5 (DX510	ST31000333AS	931.51 GB	39 °C / 102 °F	Normal	Not Initialized	-

Enable Write Cache Support for Hard Disks

Write cache support is only effective on hard disks that support it. Enabling cache offers you enhanced performance on your Synology product. However, to ensure data protection, the usage of a UPS device is strongly recommended. It is also highly suggested that the system is shut down properly every time after use.

In other words, while disabling cache offers the benefit of increasing resilience against abnormal power, there is also the possibility of reduction in performance.

Write cache support
Turn on the disk write cache to improve I/O performance Schubel Write cache
Enable write cache support to improve disk I/O performance. This function is effective only if the hard drive supports it.
OK Cancel

To enable write cache support for your disk:

- 1 Select a disk on the disk list and click Cache Management.
- 2 Tick Enable write cache. By default, this function is enabled.
- 3 Click OK.

Run S.M.A.R.T. Analysis

Disk S.M.A.R.T. will help you to examine and report the hard disk status to alert possible disk failures. It is recommended that you change your disk if errors are detected.

S.	M.A.R.T. Test	
	S.M.A.R.T. Test	
	Examine and report the hard failures.	disk status to alert possible disk
	Quick Test	
	Extended Test	
	Start	
	Test Result	
	Last Quick Test result:	No record
	Last Extended Test result:	No record
		Close

To start S.M.A.R.T. test:

- 1 Select a disk on the disk list and click S.M.A.R.T. Test.
- 2 Choose any of the following test methods and click Start:
 - Quick Test
 - Extended Test

Note: The exact processing time might vary under different system environment.

- 3 The latest test results are shown in the Test Result section.
- 4 Click Close to finish.

To check S.M.A.R.T. info:

- 1 Select a disk on the disk list and click S.M.A.R.T. Info. The numbers listed can help you to diagnose the status of your disk.
- 2 Click Close to finish.

Check Disk Info

Here you can see the disk's model name, serial number, firmware version, and total size.

Disk Info	
Disk model: Serial number:	HTS545032B9SA02 100327PBSC001YJG3P4R
Firmware version:	PB3AC60W
Total size:	298.09 GB
	Close

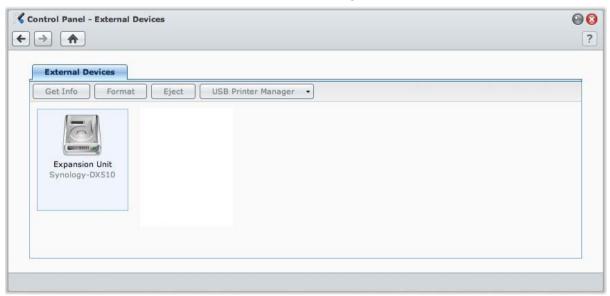
To check disk info:

- 1 Select a disk on the disk list and click Disk Info.
- 2 Click Close to finish.

Manage External Disks

You can attach external USB or eSATA disks to the USB or eSATA port of your Synology DiskStation for backup or file sharing purposes.¹

Go to Main Menu > Control Panel > External Devices to manage the attached external disks.



To attach an external disk:

- 1 Connect an external USB or eSATA disk to the USB or eSATA port of your Synology DiskStation.
- 2 A new shared folder named usbshare1 (for USB device) or esatashare (for eSATA device) will be created automatically and ready for access.

Note:

- When more than 1 external USB disk is connected, usbshare2, usbshare3 ... will be created.
- DiskStation recognizes the following format: EXT3, EXT4, FAT, FAT32, and NTFS. Any unrecognized USB disk
 will have to be formatted first before being used on the system.

To get the information of the disk:

You can access disk information by clicking Get Info.

To eject or format an external disk:

Click Eject or Format.

Note:

- For more information about external disks, see its help by clicking the Help button (with a question mark) at the top-right corner.
- You can also manage USB printer here. See "Set Synology DiskStation as Print Server" on Page 125 for more information.

¹ eSATA is supported on specific models only. See "Appendix A: Synology DiskStation Specifications" on Page 219 for more information.

Access your DiskStation from the Internet

You can connect to your Synology DiskStation over the Internet, allowing its services to be accessible from anywhere and anytime.

This chapter explains how to set up Internet connection with the easy-to-use Synology EZ-Internet wizard, or with the more advanced port forwarding function, and register a friendly DDNS hostname for your Synology DiskStation.

Use the EZ-Internet Wizard

The **EZ-Internet** Wizard can set up DiskStation access via the Internet with an easy-to-use wizard, without going through the complicated firewall settings, PPPoE setup, DDNS registration, and router port forwarding configuration.

🚔 EZ-Internet Wizard	1	00
EZ	Welcome to Synology EZ-Internet Wizard	
EZ-Internet Wizard	 The wizard will guide you through the following settings: Set up Internet connection Set up port forwarding Setup firewall Set up DDNS service 	
	Nex	t

To use the EZ-Internet wizard:

Go to Main Menu > EZ-Internet and follow the wizard to complete the setup.

Set Up Port Forwarding Rules for Router

If your Synology DiskStation is within the Intranet, you can set up port forwarding rules for the router to allow your Synology DiskStation to be accessible over the Internet.

Note: Before you start, make sure you have manually assigned a static IP address for your Synology DiskStation. See "Network Interface" on Page 30 for more information.

Control I	Panel - Router Configu	Iration		9	8
← →	^				?
Set up rou	uter Create	Delete Save Test Connection			
🗹 Enabled	Connection Test Res	Service	Local Port	Router Port	F
V	Not tested	iSCSI Target	3260	3260	1
V	0	eMule	4672	4672	
V	normal	eMule	4662	4662	_
V	failed	BitTorrent	6881	6881	
V	failed	BitTorrent	6881-6890	6881-6890	4
V	normal	Surveillance Station	55736-55863	55736-55863	
V	normal	Surveillance Station	55900-55910	55900-55910	
V	Not tested	Surveillance Station	9000	9000	П
V	normal	File Station (Extra)	7000	7000	
V	normal	FTP file server	21,55536-55663	21,55536-55663	

Go to Main Menu > Control Panel > Router Configuration to set up your router and port forwarding rules.

Note: To configure port forwarding rules and assign static IP address, you must have the administrative permission to the router.

Set up Router

Before adding port forwarding rules, you need to set up your router first.

Set up router		,		
Router:	TP-LINK: TL-R860(4.0.1 Buik 🗸	Update List		
Protocol:	HTTP			
Port:	80			
🗹 Use custom account		-		
Account:	admin]		
Password:	•••••]		
Confirm password:	•••••			
*Please select the exact model and DSM version matching your router. Otherwise, it may cause your router to malfunction.				
		OK Cancel		

To set up your router:

- 1 Click Set up router to open the settings window.
- 2 Select your router by doing the following :
 - a Choose your router from the Router drop-down menu.
 - **b** If you cannot find your router, click **Update List** to get the latest router support list from Synology.
 - c If you still have trouble finding your router even after the list is updated, contact Synology.
- 3 Enter the protocol and port for your router. The protocol and port vary depending on the model of your router. If you cannot connect using the default HTTP protocol and 80 port, refer to the documentation that comes with your router for correct settings.
- 4 If your router requires a custom account to allow it to be accessed, tick Use custom account and fill in the Account and Password fields.
- 5 Click OK.

Add Port Forwarding Rules

Add port forwarding rules to specify the destination ports of your Synology DiskStation that will receive packages from specific router ports.

Port Forwarding	8
Create port forwarding rules	
Create a port forwarding rule by:	
Built-in application	
Select built-in application to be forwarded	
○ Custom port	
Define custom port to be forwarded	
	Next

To add port forwarding rules:

1 Click Create.

2 Do one of the following:

- If you want to create port forwarding rules for system services (for example, FTP, Web Station, etc), choose Built-in application and tick the system services.
- If you want to create port forwarding rules for custom services, choose Custom port. You can use the following syntax to specify port numbers and range:
 - Use "-" to describe port range. For example, 6881-6890.
 - Use "," to separate ports. For example: 21,22 or 21,55536-55663.

Note:

- Some routers don't allow using custom ports for system services forwarding. See the documentation that came with your router for more information.
- Each router port can be used for one forwarding rule only. Using a router port for two or more rules will cause conflicts, and a warning message will appear on the screen. You need to set another port for the rule to avoid conflicts.

3 Click Save.

You may need to wait for a few minutes before the rules start working, depending on the models of your routers.

To test whether your rules are working or not:

- 1 Select the rules you want to test and click Test Connection.
- 2 The result will be displayed in the **Connection Test Result** column.

Give Synology DiskStation a DDNS Hostname

You can register a DDNS (Dynamic Domain Name Server) hostname for your Synology DiskStation, allowing it to be connected anywhere by entering the hostname in the address bar of your web browser.

Once set up, you and your friends no longer need to remember the IP address to access your Synology DiskStation. Simply type in the DDNS hostname on the web browser as you would when connecting to any website. After the setup is complete, the hostname will always point to the external IP of the Synology DiskStation.

Service Requirement

- The DDNS server of the service provider is working normally.
- The gateway connection is normal.
- Synology DiskStation is able to connect to the DNS server.
- The following addresses are unblocked in the Firewall:
 - http://members.dyndns.org:80
 - http://checkip.dyndns.org:80
- DDNS will only run in a network environment where there is no proxy server required.

Register a DDNS hostname for Synology DiskStation

Go to Main Menu > Control Panel > DDNS and use one of the following methods to enter your DDNS information.

Control Panel - DDNS					0	0
← → ♠						?
DDNS Enable DDNS support to allow Image: Enable DDNS support Service provider: Hostname: Username:	No-IP.com diskstation.no-ip.org	nrougi	n a registered host Register now	name.		
Password: Confirm password: Status:	Normal					
Gateway Information						1
Internal address:	192.168.0.1					
External address:	123.193.176.64					
					OK Cancel	L

Method 1: Visit any DDNS service provider's website to register a DDNS account

1 Visit any of the following DDNS service providers to register a DDNS account:

- http://freedns.afraid.org
- http://zoneedit.com
- http://dnspod.com
- http://changelP.com
- http://ddo.jp
- http://www.selfhost.de/
- http://www.dyndns.com/
- http://www.no-ip.com/
- http://www.3322.org/
- http://www.twodns.de/

2 Tick Enable DDNS support and enter the hostname, username, and password for your Synology DiskStation.

3 Click OK.

Note: Remember to enter the full domain name in the Hostname field. (e.g. philip1234.dyndns.org)

Method 2: Register a DDNS account at No-IP.com

- 1 Tick Enable DDNS support, choose No-IP.com from the Service provider drop-down menu, and then click Register Now.
- 2 In the window that appears, enter the hostname you want in the Hostname field.
- **3** Enter your account information:
 - If you already have a No-IP.com account, select Use an existing No-IP.com account and enter the account information in the Email and Password field to log in.
 - If you don't have a No-IP.com account, select Create a new No-IP.com account and fill out all the required fields to register a new account.
- 4 Click OK to finish. The newly registered hostname for your Synology DiskStation will be activated in just a few seconds.

Note: If you have any problem using your No-IP.com account, visit No-IP.com for troubleshooting information.

Chapter

Enhance Internet Security

After your Synology DiskStation is available on the Internet, you will need to safeguard it against any attacks from Internet hackers.

This chapter explains how to set up firewall and enable auto block.

Prevent Unauthorized Connection with Firewall

The built-in firewall can prevent unauthorized logins, and control which services can be accessed. In addition, you can choose to allow or deny access to certain network ports from specific IP addresses.

All		e L	
Select from a list	of built-in applications	Select	
Custom		Custom	
Source IP			
All	 Single host 	Subnet	
IP address:			
Subnet mask:			
Action			
Allow	O Deny		

Go to Main Menu > Control Panel > Firewall to create firewall rules.

Note: You can create up to 100 rules for Synology DiskStation.

To create a firewall rule:

- 1 Click the LAN, Bond (multiple-LAN models only), PPPoE, or Wireless Network tab, depending on the type of your network connection.
- 2 Click Create to open the settings window.
- **3** Choose an option in the **Ports** section. You can apply the rule to all ports or selected ports using one of the following options:
 - All: Choose this option to apply the rule to all ports on Synology DiskStation.
 - Select from a list of built-in applications: Tick the system services that will be included in the rule.
 - **Custom**: Specify the type and protocol of the port, and enter the custom port number. You can enter up to 15 ports separated with comma, or by specifying a port range.

- 4 Specify the source IP address in the Source IP section. You can choose to allow or deny access from a particular source IP using one of the following options:
 - All: Choose this option to apply the rule to all source IP addresses.
 - Single host: Choose this option to apply the rule to an IP address.
 - Subnet: Choose this option to apply the rule to a subnet.
- 5 Choose Allow or Deny in the Action section to allow or deny the source IP address to access the specified ports.

Note:

- When you combine multiple LAN ports with link aggregation, firewall will apply the rules from the first network interface, and reserve the rules of the second network interface. For more information about link aggregation, see "LAN" on Page 30.¹
- If your system has multiple network ports connecting to the same subnet, the firewall rules might not work properly.

To change the priorities of rules:

Reorder the rules by dragging any of them up or down. Rules at the top will have higher priorities.

To disable rules:

Uncheck the checkboxes next to the rules.

To delete rules:

Select the rules you want to delete and click Delete.

Automatically Block Suspicious Login Attempts

Auto block allows you to prevent unauthorized login via SSH, Telnet, rsync, FTP, mobile devices, File Station, and the management UI. After enabling the service, an IP address will be blocked automatically if it has too many failed login attempts.

Go to Main Menu > Control Panel > Auto Block to use the auto block function.

🔏 Control Panel - Auto Block	00
	?
Auto Block Enable this option to block IP addresses with too many failed login attempts. Failed login via SSH, Telnet, rsync, FTP, WebD, iPhone, File Station, and management UI will all count towards login attempts. Enable auto block An IP address will be blocked if it reaches the number of failed login attempts within the time period entered below. Login attempts: 5 Within (minutes): 5 Enable block expiration	
When block expiration is enabled, blocked IP addresses will be unblocked after the number of days entered below.	
Unblock after (days):	
Enable email notification	
An email notification will be sent when any IP is blocked.	
Block List	
ОК Сал	cel

¹ Link Aggregation is supported on specific models only.

To enable auto block:

1 Tick Enable auto block.

- 2 Enter the following information to block an IP address with a number of failed login attempts within the specified minutes :
 - Login attempts: The number for failed login attempts
 - Within (minutes): The number of minutes
- **3** Tick **Enable block expiration** and enter a number of days in the Unblock after (days) field if you want to unblock the IP address after the specified days.

Note: The IP address will remain blocked if Unblock after (days) is set to 0.

4 Tick Enable email notification to receive email notification when an IP address is blocked. Make sure email notification is enabled for your Synology DiskStation before using this option.

Note: For more information about email notification, see "Receive Email Notification" on Page 212.

- To manage the blocked IP addresses:
- 1 Click Block List to check the blocked IP addresses.
- 2 If you want to remove an IP address from the block list, select it and click Remove.

Set Up File Sharing

File sharing is one of Synology DiskStation's major functions. Synology DiskStation can become the file sharing center within the Intranet or over the Internet, allowing users to access its files anytime and anywhere.

This chapter explains how to enable the support for file sharing protocols for all platforms, create and manage users and groups, set up shared folders, and allow or deny access to the shared folders, applications or subfolders from specific users or groups.

Enable File Sharing Protocols for All Platforms

This section tells you how to enable Synology DiskStation to support file sharing protocols for all platforms.

Synology DiskStation supports the following file sharing protocols:

- For Windows: SMB/CIFS (My Network Places), FTP, WebDAV
- For Mac: SMB, FTP, AFP, WebDAV
- For Linux: SMB, FTP, NFS, WebDAV

Manage Windows File Service

Click the Windows File Service tab at Main Menu > Control Panel > Win/Mac/NFS to enable Synology DiskStation to be the Windows file server (CIFS server).

K Control Panel - Win/Mac/NFS	00
	?
Windows File Service Domain/Workgroup Mac File Service NFS Service	_
Enable Windows file service WINS server:	
Support Windows offline files Optimize CIFS database operations	
Enable Local Master Browser	
Enable CIFS Recycle Bin Empty CIFS Recycle Bin Enable Transfer Log	
View Logs	
OK Cancel	

To enable Windows file service:

- 1 Tick Enable Windows file service.
- 2 Click OK.

Advanced Settings

WINS Server

Microsoft Windows Internet Name Service (WINS) is a NetBIOS name- to-IP-address mapping service. Window users will locate the system more easily on TCP/IP networks if the system has been configured to register with a WINS server.

Support Windows offline files

This option will enable support for Windows offline files and automatically enables CIFS opportunistic locking. However, enabling this option will affect DiskStation performance when accessing shared folders via network.

Optimize CIFS database operations

Checking this option will disable "Opportunistic Locking" of CIFS, resulting in increased performance when database applications access database files on the shared folder of the Synology DiskStation via network.

Enable Local Master Browser

Enable Synology DiskStation to be the Local Master Browser.

Note: Enabling this function will disable the HDD hibernation mechanism and activate the guest account without password.

Enable CIFS Recycle Bin

Checking this option will enable "Recycle Bin" of CIFS, resulting in moving the deleted files into the CIFS Recycle Bin when users delete files in the shared folders via the CIFS protocol. When users delete files in a shared folder, a folder called "#recycle" will be created automatically under the root directory of the shared folder.

Empty CIFS Recycle Bin

Click **Empty CIFS Recycle Bin** to clean all CIFS Recycle Bins, resulting in deleting all contents of CIFS Recycle Bins in all the shared folders.

Enable Transfer Log

Enable this function to record the log of all file transfer via the smb protocol. After the function is enabled, you can see the log by clicking **View Logs**.

Manage Mac File Service

Click the Mac File Service tab at Main Menu > Control Panel > Win/Mac/NFS to make Synology DiskStation a Mac file server (AFP Server).

Control Panel - Win/Mac/NFS		00
← → ♠		?
Windows File Service Domain/Workg	roup Mac File Service NFS Service	
Enable Mac file service		
AppleTalk Zone:	No zones are available	
Time Machine:	timemachine 🗸	
✓ Enable Bonjour Printer Broadcast	ОК Саг	ncel

To enable Mac file service:

- 1 Tick Enable Mac file service checkbox to make Synology DiskStation a Mac file server (AFP server).
- 2 Set AppleTalk Zone or Time Machine backup folder if necessary. (See the sections below for more information.)
- 3 Click OK.

More Information

About AppleTalk Zone:

A "Zone" is a logical grouping of devices in an AppleTalk network. If there are AppleTalk zones configured in your own network, the system will join the default zone automatically. You can also configure the system to join other available zones.

About Time Machine backup folder:

To backup data from Time Machine to Synology DiskStation, select a shared folder from the drop-down menu.

Shared folders that are being used for other services will not be available for Time Machine.

To enable Bonjour printer broadcast:

Tick **Enable Bonjour Printer Broadcast** to allow Mac clients to browse and locate the printer connected to Synology DiskStation.

Enable NFS Service for Linux Clients

Go to Main Menu > Control Panel > Win/Mac/NFS to allows Linux client to access DiskStation data.

Control Panel - Win/Mac/NFS	00
	?
Windows File Service Domain/Workgroup Mac File Service NFS Service	
Enable this function to allow users to access the server via NFS protocol.	
✓ Enable NFS	
OK Cancel	

To enable the NFS service:

- 1 Tick Enable NFS.
- 2 Click OK.

If you want to configure Linux client's NFS access privileges to the shared folders, see "Allow Users or Groups to Access Shared Folders" on Page 81 for more information.

Join a Windows ADS Domain or Workgroup

Click the **Domain/Workgroup** tab at **Main Menu** > **Control Panel** > **Win/Mac/NFS** to add your Synology DiskStation to a workgroup or domain, depending on your network environment.

ontrol Panel - Win/Mac/NFS		08
→ ♠		?
Windows File Service Domain/W	orkgroup Mac File Service NFS Service	
Workgroup		
Workgroup:	WORKGROUP	
🔘 Domain		
Domain:		
DNS Server:	192.168.0.1	
Advanced domain options (Requ	red only under specific network environment)	
DC IP:		
Domain NetBIOS name:		
Domain FQDN (DNS name):		
	ОК	Cancel

To join a workgroup:

Choose WORKGROUP and enter the name of the workgroup.

To join a domain:

- 1 Choose Domain and enter the domain name in the Domain field and DNS server (optional) in the DNS Server field, and click OK.
- 2 In the window that appears, enter the user name and password for the administrator of the domain server, and click OK.

After Synology DiskStation joins the domain, domain users can log in to Synology DiskStation with their domain account and password.

Note:

- If your domain user name includes "%" and "\$", you might not be able to access your home folder. Please ask your domain administrator to give you a new user name.
- Domain groups Domain Admins and Enterprise Admins will be added to the local group administrators automatically. In other words, domain users in these groups have administrative right on the DiskStation, including performing DSM/CIFS/FTP/AFP/WebDAV applications.
- You can also configure domain users' access privileges to the shared folders on Synology DiskStation. See "Allow Domain Users or Groups to Access Shared Folders" on Page 82 for more information.

More Information

About DNS server:

You are recommended to specify a DNS server to help Synology DiskStation search for the domain. However, if the domain is not registered on the DNS server, the procedure of joining domain may fail.

About advanced domain options:

In most cases, you do not need to fill in any of the advanced domain option. Advanced domain options are needed only for specific domain environment.

- DC IP: Specify a DC (Domain Controller) IP and Synology DiskStation will try to communicate with it. If there
 is more than one IP, insert a comma in between each of them. Add an asterisk (*) after the last DC IP if you
 wish, and Synology DiskStation will try to communicate with other DC when all specified ones failed. You
 will need to add a comma between the asterisk and the last IP.
- Domain NetBIOS name: Specify the NetBIOS name of the domain.
- Domain FQDN (DNS name): Specify the FQDN (DNS name) of the domain.

Manage Users and Groups

Go to Main Menu > Control Panel > User or Group to create users or groups, and allow or deny their access to different shared folders.

🔏 Control Panel - User				
€ → Ѧ			?	
Create 🔹	Edit Delete User Home Password Strengt	h	P Search	
Name	Description	Email	Status	
admin	System default user		Normal	
guest	Guest		Disabled	
jasperlai	0000		Normal	
summy	0000		Normal	
tm			Normal	
upload	upload to chris		Normal	
K K Page	1 of 1 > > C		Displaying 1 - 6 of 6	

Create and Edit Users

Follow the steps below to create a user account. The user can login to edit his/her account info after the user account has been established. You can also choose to set an account expiration date or disallow the user to change account password.

User Creation Wizard			8
User information			
Fill in the following fields			
Name *:	ross]	
Description:]	
Email:	ross@xxx.com		
Password:	•••••		
Confirm password:	•••••		
Send a notification mail to	the newly created user		
Disallow the user to change	e account password		
* This field is required.			
			Next Cancel

To create a user account:

- 1 Click Create to open the User Creation Wizard.
- 2 Enter the user name and other information, and click Next.
- 3 In the Join Group section, tick the checkboxes to select the user group for the user, and click Next. By default, the user is categorized under the users group.

Note: For more information about groups, see "Create and Edit Groups" on Page 77.

- 4 In the Assign Privileges shared folder section, do the following:
 - a Assign the following shared folder privileges for the user:
 - Read/Write: The user can access and make changes to the files and subfolders in the shared folder.
 - Read only: The user can access the files and subfolders in the shared folder, but cannot make changes to them.
 - No access: The user cannot access the files and subfolders in the shared folder.
 - **b** See **Privilege preview** to see the user's privilege that is decided based on the privileges setting of the user and the groups joined by the user.

c See Group privileges for the shared folder privileges of the group the user belongs to.

Note:

- When you encounter privilege conflicts, the privilege priority is as follows: No access > Read/Write > Read only.
- For more information about editing a group's access privileges to shared folders, see "Allow Users or Groups to Access Shared Folders" on Page 81.

5 In the User quota setting section, do the following if you want to set the maximum storage quota for the user.

a Tick Enable quota and enter a value under the Quota column.

b Click Next.

6 In the Assign Privileges – applications section, assign the application privileges for this user, and click Next.

7 Click Apply to finish.

To create a user account by importing users list:

1 Create a text file which contains the following tab-delimited information in each line:

- Username
- Password
- Description
- Email
- Quota (MB) in volume 1
- Quota (MB) in volume 2 (and so on)

Note:

• All fields are optional except Username.

An example of the text file is shown as follows:				
eddy	1234	father	eddy@abc.com	80000
rosy	5678	mother	rosy@abc.com	80000
chaddy	8901	brother	chaddy@abc.com	20000
eric	2345	cousin	eric@abc.com	20000

2 Save the text file in UTF-8 encoding.

- 3 Go to Main Menu > Control Panel > User and click Import Users.
- 4 Choose the text file and click OK to start uploading. Tick Overwrite duplicate accounts if you want to replace the existing duplicate accounts with the one from the users list.

After submission, a dialog will show the list of imported users.

Note: Users with abnormal status will not be imported.

To edit a user:

1 Select the user you want to edit from the users list and click Edit or double-click the user.

2 Make changes to the settings and click OK.

Note:

- If you disable an account, the account will stop functioning.
- The quota value should be an integer greater than or equal to 0 GB, and less than the disk/volume capacity. A quota value of 0 means unlimited quota size.
- If there is more than one volume on the server, you can set a quota for the user on every volume.
- Email information on the "Notification" page must be set correctly in order for the system to notify the user by email after the account information has been created or modified.

To search for a user:

Type the name of the user in the **Search** field and press Enter (PC) or Return (Mac) on your keyboard. The search result will be displayed in the users list below.

This function is especially useful when there are numerous users for your Synology DiskStation.

To delete a user:

Select the user you want to delete and click Delete.

Note: To see domain users in the users list, you must join the domain and assign shared folder privileges for the users. For more information about Windows ADS domain, see "Join a Windows ADS Domain or Workgroup" on Page 70.

Apply Password Strength Rules

You can enable password strength service to make sure DSM users' password is secure enough to withstand malicious login attempt.

Password Strength	
Apply password strength rules	
Exclude name and description of user from	n password
Allow mixed case	
Include numeric characters	
Include special characters	
Minimal password length	6
	Apply Cancel

Note:

- Password Strength rules only work for passwords created or modified after the Password Strength service is enabled. Existing passwords won't be affected by the rules.
- The rules won't apply to the passwords of users created by importing users list.

To apply password strength rules:

- 1 Click Password Strength.
- 2 Tick Apply password strength rules.
- 3 Tick any of the following rules:
 - Exclude name and description of user from password: The password must not contain user name or description.
 - Mixed case: The password must contain mixed case letters.
 - Included numeric character: The password must contain at least one numeric character (0~9).
 - Included special character: The password must contain at least one special character (i.e., ~, `, !, @, #, \$, %, ^, &, *, (,), -, _, =, +, [, {,], }, \, |, ;, :, ', ", <, >, /, ?).
 - Minimum password length: The password must be longer than the specified value. The length should be a number between 6 and 127.
- 4 Click Apply.

To cancel password strength rules:

- 1 Click Password Strength.
- 2 Uncheck Apply password strength rules.
- 3 Click Apply.

Create User's Home Folder

Each DSM user (except for guest) can have his/her own folder called the **home** folder, which is accessible only by the user and the system administrator.

For DSM admin and users belonging to the administrators group, DSM users' home folders are here: homes/[Username]

User Home				
Enable user home service	e			
Location:	Volume 1 (Available: 96.10 GB)			
	OK Cancel //			

To enable user home service:

- 1 Click User Home.
- 2 Tick Enable user home service.
- **3** If there are more than one volume on Synology DiskStation, select where you want the **homes** folder to be stored.
- 4 Click OK.

To disable user home service:

- 1 Click User Home.
- 2 Uncheck Enable user home service.

When the user home service is disabled, the **homes** folder will be kept but accessible by **admin** only. Users can access their home folders again if the user home service is enabled again.

Note:

- To delete the **homes** folder, the user home service must be disabled first.
- The domain user home service would be disabled if the local user home service is disabled.

Create Domain User's Home Folder

Go to Main Menu > Control Panel > Domain Privileges to create domain user's home folder.

For DSM **admin** or users belonging to the **administrators** group (including domain administrators), domain users' home folders are in the **@DH-[Domain_Name]** folder. The name of the user's home folder is the user account plus a unique number.

Domain users Edit User Hor	Domain group		P Search
Name	Description	Email	Status
SIG2K8\1			Normal
SIG2K8\Administrator			Normal
SIG2K8\d10			Normal
SIG2K8\d11			Normal
SIG2K8\d12			Normal
SIG2K8\d13			Normal
SIG2K8\d14			Normal
SIG2K8\d2			Normal
SIG2K8\d3			Normal
SIG2K8\d4			Normal
SIG2K8\d5			Normal
SIG2K8\d6			Normal
SIG2K8\d7			Normal
SIG2K8\d8			Normal

Like local users, all domain users can access their own home folder via CIFS, AFP, FTP, WebDAV, File Browser or File Station.

admin and users belonging to the administrators group can access all personal folders located in the homes default shared folder.

All domain users' home folders are located in one of the sub-folders under a folder named **@DH-domain name**. The name of the user's home folder is the user account plus an unique number.

Note:

- To delete the **homes** shared folder, user home service must be disabled first.
- Enabling domain user home service will also enable the local user home service if it's not enabled yet.
- The domain user home service would be disabled if the local user home service is disabled.

Create and Edit Groups

Go to Main Menu > Control Panel > Group to create and edit a group, add users to the group, and then edit the group's properties, saving you the trouble of editing users one by one.

Groups created by default include the following:

- administrators: Users belonging to the administrators group have the same administrative privilege as admin.
- **users**: All users belong to the **users** group.

🛠 Control Panel - Group		⊖ ⊗
← → ♠		?
Create Edit Delete	Edit Members	P Search
Name	Description	
administrators	System default admin group	
users	System default group	
K K Page 1 of 1 > >	C	Displaying 1 - 2 of 2

To create a new group:

- 1 Click Create and enter the group name and description.
- 2 Click OK.

To edit a group's name and description:

- 1 Select the group you want to edit from the groups list and click Edit or double-click the group.
- 2 Make changes to the settings and click OK.

To delete a group:

Select the group you want to delete from the groups list and click Delete.

To add or remove group members:

- 1 Select the group you want to add users to from the groups list and click Edit Members.
- 2 Click Add or Remove, select users from the users list, and click OK. (Press and hold Shift or Ctrl while making multiple selections.)
- 3 Click Finish.

Note: For more information about editing a group's access privileges to shared folders or applications, see "Allow Users or Groups to Access Shared Folders" on Page 81 and "Allow Users to Access Applications" on Page 78 for more information.

Allow Users to Access Applications

Go to Main Menu > Control Panel > Application Privileges to decide which applications could be accessed by a user.

Edit	ivilege incl. V any	P Search	
Name	Application Privileges		
jasperlai	Audio Station, Download Station, FTP, File Browser, File Station		
summy	Audio Station, Download Station, FTP, File Browser, File Station		
tm	File Browser		
upload	Audio Station, FTP, File Browser, File Station		
K K Pa	ge 1 of 1 > >	Displaying 1 - 4 of	

To quickly find the user whose application privileges you want to modify:

- 1 Click the Local User or Domain User tab, depending on which type of users whose application privileges you want to modify.
- 2 Do any of the following:
 - Use the drop-down menus next to Edit to view users with or without access privilege to the specified application.
 - Enter the user's name in the search field and press "Enter" on your keyboard.
- **3** Wait for a while before the filter result is displayed.
- 4 Do any of the following if you want to see the complete users list:
 - Choose Privilege includes and any from the drop-down menus.
 - Delete the name you entered in the search field and press "Enter" on your keyboard.

To allow a user to access applications for Synology DiskStation:

- 1 Click the Local User or Domain User tab, depending on which type of users whose application privileges you want to modify.
- 2 From the users list, select the user whose application privileges you want to modify.
- **3** In the window that appears, tick the checkboxes to grant access to the applications. You can also tick **Grant** to grant access to all applications.
- 4 Click OK.

Note: The users list excludes admin and guest.

Set Up Shared Folders

Go to Main Menu > Control Panel > Shared Folder to manage the shared folders, which are the root folders of Synology DiskStation. (Folders within the shared folders are called **subfolders**.) You can store data in the shared folders and share them with users or groups with access privileges.

🛠 Control Panel - Shared Folder 🛛 💮 😒					
€ ⇒ ♠ ?					
Create Edit Delete	Encryption • Privileges Setup NFS Privilege	95	₽ Search		
Name	Description	Status	Volume		
homes	user home	-	Volume 1		
music	System default shared folder	-	Volume 1		
photo	System default shared folder	-	Volume 2		
surveillance	System default shared folder	-	Volume 1		
test		-	Volume 1		
Time Machine		-	Volume 1		

Built-in Shared Folders Created by the System

System built-in shared folders are created when the services or applications requiring the folders are enabled.

System built-in shared folders include the following:

Name	Description
public	The public folder will be created automatically after the first time you set up Synology 1-bay models.
web	The web folder contains contents of your website. It will be created automatically when Web Station is enabled. For more information about Web Station, see "Use Web Station to Host Websites" on Page 116.
photo	The photo folder contains photos and videos you want to share on Photo Station. It will be created automatically when Photo Station or DLNA/UPnP Media Server is enabled. For more information about Photo Station and media server, see "Chapter 11: Share Photos, Videos, and Blogs with Photo Station" on Page 129 and "Manage DLNA Media Server" on Page 200.
music	The music folder contains music you want to share on Audio Station. It will be created automatically when Audio Station is enabled. For more information about Audio Station, see "Chapter 12: Play Music with Audio Station" on Page 143.
video	The video folder contains videos you want to browse through DLNA/UPnP DMA. It will be created automatically when Media Server is enabled. For more information about Media Server, see "Manage DLNA Media Server" on Page 200.
surveillance	The surveillance folder contains Surveillance Station recordings. It will be created automatically when Surveillance Station is enabled. It is read-only and can only be accessed by the system administrator. For more information about Surveillance Station, see "Chapter 14: Safeguard Your Environment with Surveillance Station" on Page 176.
home	The home folder provides a private space for each user to store data where only the user can access. It will be created automatically when User Home is enabled. For more information about User Home, see "Create User's Home Folder" on Page 75.
homes	The homes folder contains the home folders of all users. It will be created automatically when User Home is enabled. Only system administrator can access and manage all users' home folders. For more information about User Home, see "Create User's Home Folder" on Page 75.
NetBackup	The NetBackup folder is created automatically when Network Backup Service is enabled. For more information about network backup, see "Network Backup" on Page 108.
usbshare	The usbshare[number] folder is created automatically when you connect an USB disk to Synology DiskStation's USB port. For more information about external USB disks, see "Manage External Disks" on Page 58.
satashare	The satashare folder is created automatically when you connect an eSATA disk to Synology DiskStation's eSATA port. For more information about external eSATA disks, see "Manage External Disks" on Page 58.

Create a Shared Folder

If you are **admin** or a user belonging to the **administrators** group, you can also create shared folders and assign access privileges to the folders.

Create New Shared Folder				
Shared Folder Info Windo	ws Access Control List File Indexing			
Fill in the following fields:				
Name:	test			
Description:				
🗖 Hide this shared folder in "My	Network Places".			
🗖 Encrypt this shared folder				
Encryption key:				
Confirm key:				
Mount automatically on startup				
	OK Cancel //			

To create a new shared folder:

- 1 Click Create.
- 2 Enter the name and description for the shared folder, and select a volume¹ where the folder will be created.
- 3 Tick Hide this shared folder in "My Network Places" if you want to hide the folder in Windows "My Network Places".

Note: If you have access privilege to a shared folder hidden in "My Network Places", you can still access it by pressing Windows-R and entering **\\Synology_Server_Name\Shared_Folder_Name** in the **Open** field.

- 4 If you want to encrypt the shared folder, do the following:
 - a Tick Encrypt this shared folder in the window that appears, and then enter the encryption key in the Encryption key field, and enter the same key again in the Confirm key field to confirm it.
 - **b** Tick **Mount automatically on startup** to mount the encrypted folder automatically for access. If you didn't tick this checkbox, the encrypted folder will be unmounted next time Synology DiskStation restarts. To view or access an unmounted folder, you will need to mount the folder manually by importing or entering the encryption key.
- 5 If you want to define Windows ACL privileges for the shared folder, click the Windows Access Control List tab. See "Define Windows ACL Privileges for Shared Folder" on Page 85 for more information.
- 6 If you want to index contents within this shared folder, click the File Indexing tab. See "Index Shared Folder Contents" on Page 86 for more information.
- 7 Click OK.

Note: One Synology DiskStation can contain up to 100 or 200² shared folders, including the built-in shared folders.

¹ Multiple volumes are available only on DiskStation with more than 1 bay.

² 200 shared folders are supported on specific models only. See "Appendix A: Synology DiskStation Specifications" on Page 219 for more information.

Remove a Shared Folder

If you are **admin** or a user belonging to the **administrators** group, you can remove any shared folder created by yourself.

To remove a shared folder:

- 1 Select the shared folder you want to remove from the shared folder list.
- 2 Click Delete, and tick the checkbox on the dialogue prompt for confirmation.
- 3 Click OK.

Important: Removing any shared folder also removes all data within it. If you still need the data, back them up first.

Allow Users or Groups to Access Shared Folders

Go to Main Menu > Control Panel > Shared Folder to allow or deny users' or groups' access to the shared folders.

reate Edit Delete	Encryption Privileges Setup NFS Privileges	₽ Sear	ch
Name	Description	Status	Volume
download		Hidden in "My Network Places"	Volume 1
homes	user home	-	Volume 1
Jtem		Hidden in "My Network Places"	Volume 2
music	System default shared folder	-	Volume 1
photo	System default shared folder	-	Volume 1
share		-	Volume 1
surveillance	System default shared folder	-	Volume 1
temp		-	Volume 1
timemachine		Hidden in "My Network Places"	Volume 1
upload		-	Volume 1
video	System default shared folder	-	Volume 1

To allow users or groups to access a shared folder:

- 1 Select the shared folder you want to edit from the shared folders list, and click **Privileges Setup** to open the settings window.
- 2 Click the Privilege Setup tab, and select any of the following from the drop-down menu:
 - System Internal user: Anonymous FTP user. Before allowing anonymous FTP users to connect to a shared folder, you need to allow their access to the folder first. For more information about anonymous FTP, see "Manage FTP Security Settings" on Page 93.
 - Local users: Synology DiskStation users (including guest). See "Manage Users and Groups" on Page 71 for more information.
 - Local groups: Synology DiskStation groups. See "Manage Users and Groups" on Page 71 for more information.
- 3 Tick or uncheck the following privileges to assign access privileges for the users or groups:
 - Read/Write (RW): The user or group can access and make changes to the files and subfolders in the shared folder.
 - Read only (RO): The user or group can access the files and subfolders in the shared folder, but cannot make changes to them.
 - No access (NA): The user or group cannot access the files and subfolders in the shared folder.

Note: To set the access privileges to subfolders, you can use File Browser. See "Allow Users and Groups to Access Files and Subfolders" on Page 100 for more information.

- 4 Click the Advanced privileges tab if you want to do any of the following:
 - Disable directory browsing
 - Disable modification of existing files

Disable file downloading

5 Click OK.

Note:

- When you encounter privilege conflicts, the privilege priority is as follows: No access > Read/Write > Read only.
- When you create a new shared folder, if the access privilege of admin (or a user belonging to the administrators group) to the folder is set as No access, then admin (or the user belonging to the administrators group) will only be able to see the folder by going to Main Menu > Control Panel > Shared Folder.

To allow Linux clients to access a shared folder:

- 1 Select the shared folder you want to edit from the shared folder list, and click NFS Privileges.
- 2 Click Create to open the settings window.
- 3 Enter a Hostname or IP. You may specify a host in three ways:
 - Single Host: The FQDN (fully qualified domain name) or an IP address.
 - Wildcards: *,* .synology.com
 - IP networks: 203.74.205.32/255.255.252.0, /24
- 4 Assign Privilege, assign Root Squash, or tick Enable asynchronous, and click OK.
- 5 Click OK.

Term Explanation

Asynchronous: NFS servers will reply to requests before the changes on the file are completed.

Allow Domain Users or Groups to Access Shared Folders

Go to Main Menu > Control Panel > Domain Privileges to set up and modify the access permission of a domain user or group, and enable the home service for all domain users.

Name 🔺	Preview	Group privileges	Read only	Read/Write	No access
NetBackup	NA	-			
backup	RO	-	S		
homes	NA	-			
music	NA	-			
photo	NA	-			
video	NA	-			
volume2	NA	-			
waka	NA	-			
web	NA	-			
Privileges priority: NA >	RW > RO				

To manage domain users' access privileges:

admin or users belonging to the administrators group can set up the shared folder permission and the quota of disk capacity of each domain user. The rule of settings are:

- Privileges priority: NA > RW > RO.
- **Privilege preview:** User's privilege would be shown here, and that is decided based on the privileges setting of the user and the groups joined by the user.
- Group privileges: Assign privileges to groups access to access shared folders.

To manage domain group's access privileges:

For each domain group, you can also configure the permission of all shared folders. The priority of privileges is: NA > RW > RO.

Encrypt a Shared Folder

Go to Main Menu > Control Panel > Shared Folder to encrypt your shared folder.¹

The AES 256-bit encryption can block off all unauthorized access attempts. Without the encryption key, other people will not be able to use the encrypted data even if they remove the hard drives from your Synology DiskStation and mount it on their device.

Ec	Edit Shared Folder share				
ſ	Shared Folder Info				
	Fill in the following fields: Name: Description: Location:	share Volume 1 (Available: 690.48 GB)			
	Hide this shared folder in "My N	letwork Places".			
	Encrypt this shared folder				
	Encryption key:				
	Confirm key:				
	Mount automatically on star	tup			
		OK Cancel			

To encrypt a shared folder:

- 1 Select a shared folder you want to encrypt, and then click Edit to open the settings window.
- 2 Tick Encrypt this shared folder, enter the encryption key in the Encryption key field, and enter the same key again in the Confirm key field.
- 3 Tick Mount automatically on startup to mount the encrypted folder automatically after Synology DiskStation starts up next time. By default, encrypted shared folder will be unmounted automatically on startup for security reasons.

Note:

- You can also encrypt a folder when you create it.
- The following built-in shared folders are not allowed for encryption since they are associated with system services: web, photo, music, video, surveillance, download, Netbackup.
- Encrypted shared folders cannot be accessed via NFS. If you encrypt a shared folder containing NFS rules, they
 will be removed.

¹ Shared folder encryption is supported on specific models only.

Edit an Encrypted Folder

After the folder is encrypted, you can use the Encryption drop-down menu to edit the folder.

reate Edit Delet	e Encryption -	Privileges Setup NFS Privileges	Q Searc	:h
Name	Mount	ription	Status	Volume
download			Hidden in "My Network Places"	Volume 1
homes	use	r home	-	Volume 1
Jtem			Hidden in "My Network Places"	Volume 2
music	Sys	tem default shared folder	-	Volume 1
photo	Sys	tem default shared folder	-	Volume 1
share			-	Volume 1
surveillance	Sys	tem default shared folder	-	Volume 1
temp			-	Volume 1
timemachine			Hidden in "My Network Places"	Volume 1
upload			-	Volume 1
video	Sys	tem default shared folder	-	Volume 1

The items shown in the menu depend on the status of the selected shared folder:

- For unencrypted shared folder, the Encryption drop-down menu is disabled.
- For an encrypted shared folder which is mounted, you can choose Unmount from the Encryption dropdown menu to unmount the folder, or Export key to save the encryption key.
- For an encrypted shared folder which is unmounted, you can choose Mount from Encryption drop-down menu, and then enter or import the encryption key to mount the folder for access.

Note:

- It is very important to remember the encryption key. It is strongly recommended that you export and save the encryption key. If you forget or lose the key, there is no way to rescue the encrypted data.
- If an encrypted folder is unmounted, you cannot rename it or change its volume location.

Define Windows ACL Privileges for Shared Folder

Windows Access Control List (ACL) is a list of privileges or permissions that determine specific access rights under the Windows environment. This can help administrator define access control rules for an individual file or a directory, and give different access rights for individual user or group.

Through Windows ACL, you can assign different privileges to local and domain users in the system. The privileges apply to all file-related applications, such as FTP, File Station, NFS, AFP, WebDAV, etc.

Edit Shared Folder dl
Shared Folder Info Windows Access Control List File Indexing
You can use Windows Access Control List (ACL) to establish access control policy for individual file or directory in the shared folder. If ACL is enabled for a shared folder, only users with shared folder and ACL privileges can access the shared folder.
☑ Allow editing Windows Access Control List
You can edit ACL permissions of [windows explorer] after enabling this option. If you disable this option, you can not edit ACL permissions, but ACL permissions set before will not be removed.
OK Cancel

To define Windows ACL settings for a shared folder:

You can define initial Windows ACL settings when creating a shared folder. Follow the steps below:

- 1 Click Shared Folder in Control Panel.
- 2 Click Create to create a shared folder.
- 3 Under the Shared Folder Info tab, enter the fields required.
- 4 Under the Windows Access Control List tab, check the Grant Full Control to Everyone while creating the shared folder checkbox to initialize Windows ACL support.
- 5 Click OK to finish.

To edit Windows ACL settings:

You can further edit Windows ACL settings for a shared folder under Windows "Properties" page. Follow the steps below:

- 1 In Windows, log into DiskStation using Windows Explorer.
- 2 Locate the shared folder or the file you want to manage.
- 3 Right-click on the folder or the file and choose Properties.
- 4 Go to the Security tab. You'll find the Everyone in the Group or user name section.
- 5 Click Edit.
- 6 In the Group or user name section, click Everyone.
- 7 Set the privileges in the Permission for Everyone section.
- 8 Click OK to save the settings.
- 9 Click OK.

Advanced Settings

Besides editing the privilege for **Everyone**, you can also define the access permissions for individual DiskStation account on a certain file or folder. This includes domain user accounts as well. Follow the steps below:

- 1 Follow steps 1~5 in To edit Windows ACL settings.
- 2 Click Add.
- 3 Click Advanced.
- 4 Click Search Now. The search result will include all user and groups, including domain user accounts, in your DiskStation.
- 5 Select the account you want to add, click OK.
- 6 Click OK.
- 7 In the Group or user name section, click on the account you just added.
- 8 Follow steps 7~9 in To edit Windows ACL settings to finish.

When there's a conflict between Windows ACL settings and the shared folder privileges, the system will automatically adopt the settings the two may have in common. For example, if the shared folder privilege is "Read/Write", but ACL privilege is "Read". Then final privilege will be only be "Read".

Note:

- Windows ACL is only supported on EXT4 file system. For previous DSM 2.3 users, you need to create at least one EXT4 volume to use ACL feature. This means, you have to format at least one hard disk and re-create a volume.
 Formatting DiskStation will result in erasing all stored data and settings. Please make sure all your data is backed up before processing.
- To define new privileges for domain users, make sure DSM and Windows clients are in the same domain.
- The ACL privileges of the following shared folders cannot be modified: photo, surveillance, web.

Index Shared Folder Contents

You can index the contents of a shared folder for rapid file search by File Browser.

Edit Shared Folder music
Shared Folder Info Windows Access Control List File Indexing
Index contents within this shared folder for rapid file search by File Browser.
✓ Enable file indexing
Re-index
OK Cancel

To index files in a shared folder:

- 1 Select the shared folder you want to index.
- 2 Click Edit and then click the File Indexing tab.
- 3 Tick Enable file indexing.
- 4 Click OK.

Note: See "Access Files via File Browser" on Page 94 for more information about File Browser.

Chapter

Access Files from Anywhere

8

When you have set up users or groups with proper access privileges to the shared folders, they can share their files with your Synology DiskStation from anywhere.

This chapter explains the ways to access the Synology DiskStation shared folders within the Intranet or over the Internet.

Access Files within the Intranet

This section explains how to allow users to use Windows, Mac, or Linux computer to access shared folders on Synology DiskStation within the Intranet.

Note: Before accessing, make sure the relative file sharing protocols have been enabled for your Synology DiskStation. See "Enable File Sharing Protocols for All Platforms" on Page 67 for more information.

Access Shared Folders from Windows

To access shared folders from Windows, you can use any of the following methods.

Method 1: Use Synology Assistant to map the shared folders as network drives.

- 1 Run Synology Assistant and select the server from the server list.
- 2 Click Map Drive and follow the onscreen steps to finish the setup.

Management	Printer	Device						Synology
९ Search 🛛 🖁 C	onnect	🛱 Map Drive	ပံ Set Up	WOL				🎄 😧 🚯
Server name	IP addr	ess IP	status	Status	MAC address	Version	Model	Serial no
PMDemo	192.168	8.36.18 DH	ICP	Ready	00:0E:8E:15:0D:48	3.1-1593	DS1010+	A1GAN0040

Upon completion, you can access the mapped shared folder directly in Windows Explorer.

Method 2: Use the Run window.

- 1 Press Windows-R to open the Run window.
- 2 Enter \\Synology_Server_Name\Shared_Folder_Name in the Open field.

📨 Run	
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	\\chrislai\home 👻
	OK Cancel <u>B</u> rowse

Method 3: Use Window Explorer.

 Open a Windows Explorer window and choose Tools > Map network drive to show the Map Network Drive window.

🌀 🤏 Map I	Network Drive
	etwork folder would you like to map? e drive letter for the connection and the folder that you want to connect to:
<u>D</u> rive: F <u>o</u> lder:	Z: Chrislai\home Browse Example: \\server\share Reconnect at logon Connect using different <u>c</u>redentials Connect to a Web site that you can use to store your documents and pictures.
	<u>F</u> inish Cancel

- 2 Choose a drive number from the Drive drop-down menu.
- 3 Locate the shared folder by doing one of the following:
 - Enter \\Synology_Server_Name\Shared_Folder_Name in the Folder field.
 - Click Browse to locate the shared folder, and then click OK.
- 4 Click Finish.
- 5 Enter your user name and password for Synology DiskStation Manager and click OK.

Upon completion, you can access the mapped shared folder directly in Windows Explorer.

Access Shared Folders from Mac

- 1 Choose Go > Connect to Server from the menu bar.
- 2 Type Synology DiskStation's IP address or server name (appended with .local) preceded by smb:// or afp:// in the Server Address field and click Connect. (e.g. smb://EricaWang.local or afp://192.168.0.2)

Note: For better performance, it is recommended that you connect to the shared folders via SMB.

3 Select the shared folder you want to access. Upon completion, you can access the shared folder in the Finder window.

Finder	File	Edit	View	Go Window	Help				
				Back		¥ [
				Forward)第1			
				Enclosing Fo	lder	光↑			
				Computer	r	Ω #C			
				🕆 Home		☆ 業H			
						企業D			
				Network		☆ 第K			
				Disk		•			
				Applicatio	ns	ŵЖА			
				🔀 Utilities		☆業U			
				Recent Folde	rs	►			
				Go to Folder		ΰжG			
				Connect to S	erver	ЖK			

Access Shared Folders from Linux

- 1 In Synology DiskStation Manager, Go to Main Menu > Control Panel > Shared Folder.
- 2 Select the shared folder you want to access, click NFS Privileges, and find the mount path at the bottom of the window that appears.

dit NFS privileges of music			
NFS Privileges			
Create Edit Dele	ete		
Client	Privilege	Root squash	Asynchronous
fount path:/volume1/music			
		ОК	Cancel

Note: for more information about NFS Privileges, see "Allow Users or Groups to Access Shared Folders" on Page 81.

3 On a Linux computer, enter the mount path to mount the shared folders.

Access Files via FTP

If your Synology DiskStation is accessible over the Internet, you can use a FTP application to access the shared folders.

Note: For more information about making Synology DiskStation accessible over the Internet, see "Chapter 5: Access your DiskStation from the Internet" on Page 59.

Go to Main Menu > Control Panel > FTP to enable FTP service, allowing users to upload or download Synology DiskStation data via FTP.

Control Panel - FTP	00
	?
FTP Connection Restriction Security Settings	
Users can access data on the system through FTP (file transfer protocol) after enabling the service.	
S Enable FTP service	
Port number setting of FTP 21 service:	
Port range of Passive FTP:	
● Use the default port range (55536-55663)	
○ Use the following port range:	
From: 55536 To: 55663	
Report external IP in PASV mode	
☑ Enable UTF-8 filename support	
Second Enable FTP file transfer log	
OK Car	ncel

To enable FTP service:

- 1 Tick Enable FTP service.
- 2 Enter a value in Port number setting of FTP service (The default number is 21).
- 3 Specify the Port range of Passive FTP (PASV) by using the default range (55536-55663) or entering any range between 1025 and 65535.

4 Click OK.

Note:

- The default port number for the FTP service is 21. You can set it from 1 to 65535, excluding the following numbers: 20, 22, 23, 25, 80, 110, 137, 138, 139, 143, 199, 443, 445, 515, 543, 548, 587, 873, 993, 995, 3306, 3689, 5000, 5001, 5005, 5006, 5335, 5432, 9997, 9998, 9999, BitTorrent default port range: 6881-6890, and Surveillance Station default port range: 55736-55863.
- The port range of Passive (PASV) FTP can be from 1025 to 65535. It can contain up to 128 ports.
- The guest account cannot log in to DiskStation via FTP.
- The codepage setting on the FTP client computer must be the same as that of the Synology DiskStation in order to
 access the data correctly.
- On some specific models, FTP service supports connecting using SSL or TLS.

Advanced Settings

Report external IP in PASV mode

By enabling this option, the server will report its external IP to FTP clients. The reported IP will be listed in the connection log of the FTP client. This option only works when the server is behind a NAT, and with the FTP clients residing in a different subnet as the server. In most cases you don't need to enable this option, but if the FTP clients fail to connect to the server, then please try with this option enabled.

Enable UTF-8 filename support

If FTP client supports UTF-8, enable this function to better handle multilingual filename. However, the support to the old version of FTP clients is limited. If your FTP client has trouble to handle multilingual file name, you might want to disable this function.

Enable FTP file transfer log

Enable this function to record the log of each downloaded or uploaded file.

To see the FTP file transfer log:

Go to Main Menu > System Information > Log, and choose FTP file transfer log from the drop-down menu. Enabling FTP file transfer log will affect the system performance.

Set up FTP Connection Restriction

Click the Connection Restriction tab to limit DiskStation users' FTP access to DiskStation.

Control Panel - FTP	00
	?
FTP Connection Restriction Security Settings Allow SSL/TLS connection only Limit connections per IP Max connections: Image: Connection only Enable FTP bandwidth restriction Max upload rate per Image: Connection: Max download rate per Image: Connection: KB/s (0 KB/s means unlimited.) connection:	?
OK Cancel	

To set up FTP connection restriction, tick any of the following and click OK:

- Allow SSL/TLS connection only: Accept only SSL or TLS connection requests from FTP clients.
- Limit connections per IP: Limit the maximum connections per IP.
- Enable FTP bandwidth restriction: Restrict the bandwidth of single FTP connection.

Manage FTP Security Settings

Click the Security Settings tab o enhance FTP security.

Control Panel - FTP	00
	?
FTP Connection Restriction Security Settings	
Change the selected users' root to user home Select User	
Enable Anonymous FTP	
Users can access shared folders with the "anonymous" user name while FTP login. Make sure the "Anonymous FTP" user has been assigned correct access rights on the "Shared Folder" page.	
Change Anonymous root	
Shared folder: download	
OK Cancel	

To manage FTP security settings, tick any of the following and click OK:

- Change the selected users' root to user home: Click Select User to restrict the selected users' FTP access
 to their home folders only.
- Enable Anonymous FTP: Allow anyone to log in to DiskStation's FTP service (with the anonymous or ftp account). You can also tick Change Anonymous root and select a shared folder to restrict anonymous users' FTP access to that folder only.

More Information

To configure the privilege of anonymous user:

- 1 Go to Main Menu > Control Panel > Shared Folder, select a shared folder, and click Privileges Setup.
- 2 Choose System internal user from the drop-down menu and tick the checkboxes.
- 3 Click OK.

Connect to Synology DiskStation Using a FTP Application

Open any FTP application on your computer and enter the following information to connect to Synology DiskStation:

- Synology DiskStation's IP address or domain name
- Your user account and password
- The port number (The default number is 21)

Access Files via WebDAV

By enabling WebDAV, you can manage and edit files on DiskStation remotely via the HTTP protocol. See "Manage WebDAV" on Page 121 for more information.

Access Files via File Browser

File Browser is DSM's file management tool, allowing DSM users over the Internet to access DiskStation folders with their web browsers. By launching two or more File Browsers, you can manage all your DiskStation data by dragging and dropping them between different File Browsers.

File Browser Requirement

To use the full featured File Browser, you will need the newest web browser, Java and Flash Player.

- Browser: Chrome 8 or later, Firefox 3.5 or later, Safari 4.0 or later, Internet Explorer 7 or later; with AJAX and JavaScript enabled
- Java (For browsing folders on the local computer): Java Runtime Environment (JRE) 5 or later
- Flash: Flash Player 9.0.28 or later

File Browser Appearance

Go to Main Menu > File Browser to open a File Browser window.

File Browser				e 🖯 🕄	
← → home			T Fi	lter ?	
Refresh Display 🔹	Create folder Upload			Advanced Search 📚	
4 🖳 ChrisJobs	Name 🔺	Size	File Type	Modified Date	
download	🚞 .Maildir		Folder	2011年1月25日 下午10	
D 🔂 home	🧰 photo		Folder	2011年1月26日 上午01	
b and homes b and Jtem	💽 3樓 座位與會議室分布圖(2010-06).jpg	134.11 KB	JPG File	2010年8月8日 下午08時	
D in music	▶ 5F (2010-07a).pdf	175.86 KB PDF File	PDF File	2010年8月8日 下午08時	
NetBackup	📋 UserGuide_en.chm	782.47 KB	CHM File	2010年8月8日 下午08時	
photo share	📄 不可能的任務.xlsx	11.44 KB	XLSX File	2010年10月5日 下午06	
 isurveillance isurveillance in the Machine isublity isublity isvideo My Mac ischristai ist 					
Used size 810.73 GB / Unus	K < Page 1 of 1 > > C Items per page d size 1018.61 GB	age 25 🗸		Displaying 1 - 6 of 6	

- Left panel: Displays Synology DiskStation's shared folders and their subfolders in the upper part, and the folders on your local computer in the lower part.
- Main section: Displays contents of the currently-selected folder.
- Help button (top-right corner): Click the Help button (with a question mark) to reveal the DSM Help, where you can get useful help about how to use File Browser.
- Search field (next to the Help button): Enter a keyword to filter through files or folders in the current folder.
- Advanced Search (downward arrow below the Help button): Search for refined search results.

Search for Files or Folders

You can filter through files or folders in the current folder. You can also perform advanced search for more refined search results.

🕅 File Browser	<u> </u>
← → home	Y Filter
Refresh Display Create folder Upload Action	Advanced Search 🔗
Keyword: Locati	on: home 🗸
File Type: Any V Size (M	B): Any 🗸
Modified Date V Any V 02/06/2011 Owner/Gro	up: Any 💙 💙
	Search Reset
A 🚔 ChrisJobs	Size File Type Modified Date

To search for files or folders in the current folder:

- 1 Use File Browser to go to the folder containing contents you want to search.
- 2 In the Filter field at the top-right corner of the File Browser window, enter a keyword and see the filtered result in the main area of the window.

To perform advanced search:

- 1 Use File Browser to go to the folder containing contents you want to search.
- 2 At the top-right corner of the File Browser window, click the button to the right of Advanced Search to reveal the Advanced Search panel.
- 3 Enter information or choose from drop-down menus in the following search criteria:
 - Keyword: Enter a keyword to search for files or folders with matching names.

Note:

You can use global pattern [*] (meaning any number of random characters) or [?] (meaning 1 random character) in the keyword. For example, [a*n] can represent [a**ctio**n], [a**ttentio**n], or [an].

You can use space pattern [] to separate more than one keywords. For example, [a tion] can represent [action], [a function], [function added], or nation.

You can add double quote ["] at the beginning and the end of the keyword to search for exact matches. For example, ["a typ"] can represent [a type], but cannot represent [typical].

- Location: The default location is the current folder. If you want to search other locations, select any of the listed shared folders to search its contents, or select Other locations to select any other locations.
- File Type: Choose Extension to limit the search range to specific types of files, or choose Folder to search for folders only.
- Size (MB): Choose from equals, is greater than, and is less than, and then enter a size to search for files with matching sizes.
- Modified Date or Created Date: Choose from is exactly, is before, and is after, and then choose a date from the calendar to search for files with matching created or modified dates.
- Owner/Group: Choose Owner or Group, and then choose from the drop-down menu to search for files or folders belonging to the selected owner or group.

Note: Other than Location, you have to specify at least one search criterion.

4 Click Search to start the search, or click Reset and specify the search criteria again. When the search is complete, matching files will be listed in the main area of File Browser.

Note: For quicker search result, it is recommended that you index shared folder contents. See "Index Shared Folder Contents" on Page 86 for more information.

Set File Browser in Action

With the Action menu, right-clicking, and dragging-and-dropping, you can easily download, copy, move, rename, delete, extract, and compress files or folders, and more.

•	Open in New Window
5	Extract
q.	Add to Archive
q.	Compress to playlists.zip
D	Сору
	Move
×	Delete
1	Rename
	Download
	Properties

Download Files or Folders from Synology DiskStation

Use any of the following methods to download files or folders from Synology DiskStation to your computer.

Method 1:

- 1 Select the files or folders you want to download. (Press and hold Shift or Ctrl while making multiple selections.)
- 2 Choose Download from the Action menu.

Method 2:

- 1 Select the files or folders you want to download. (Press and hold Shift or Ctrl while making multiple selections.)
- 2 Right-click the files or folders, and choose Download.

Note:

- Under Windows environment, characters * ? " > | # % contained in the filename will be replaced by after downloading.
- If you make multiple selections, File Browser will archive your selections into a zip file before downloading.

Upload Files or Folders to Synology DiskStation

Use any of the following methods to upload files or folders from your computer to Synology DiskStation.

Method 1:

- 1 From the upper part of the left panel, choose a destination folder on Synology DiskStation.
- 2 Choose Upload, and select files or folders from your local computer.
- 3 Click OK to start uploading.

Method 2:

- 1 From the lower part of the left panel, select a folder on your local computer. The main section now displays the contents of the selected folder.
- 2 Select the files or folders you want in the main section, and then click Upload.
- 3 Select a destination folder on DiskStation in the window that appears.
- **4** At the top-right corner of the window, select **Overwrite** if you want to overwrite files or folders with the same name in the destination folder. Otherwise, select **Skip**.
- **5** Click **OK** to start uploading.

Method 3:

- 1 On the left panel, drag a folder from your computer (the lower part) to any folder on the DiskStation (the upper part).
- 2 In the pop-up menu that appears, choose Upload Overwrite to overwrite files or folders with the same name in the destination folder. Otherwise, choose Upload Skip to skip the files with the same filename.

Note: If you have installed JRE 5 or later, you can upload files with size over 4GB. Otherwise, you can only upload up to 2GB of contents at a time.

When you upload files and folders using any of the following methods, you can see the uploading progress of the files and folders in the top-right corner of the desktop.

earch	a
Upload	8
Added UserGuide_en.chm to Upload Queue.	
Upload	8
Upload UserGuide_en.chm successfully.	

You can also click the upward arrow at the right end of the taskbar to see the Upload Queue.

1	File Task Monito	or			6	900
	Upload Queue	Backgroun	id Task			
	Clear completed	items Re	move Res	start		
	File	Time Left	Upload Speed	Progress	Status	
	3樓 座位與會			100%	Completed	
	5F (2010-07			100%	Completed	

Copy or Move Files or Folders on Synology DiskStation

Use any of the following methods to copy files or folders between folders on Synology DiskStation.



Method 1:

- 1 Select the files or folders you want. (Press and hold Shift or Ctrl while making multiple selections.)
- 2 Choose Copy or Move from the Action menu.
- 3 Select a destination folder on Synology DiskStation in the window that appears.
- 4 At the bottom of the window, select **Overwrite** if you want to overwrite files or folders with the same name in the destination folder. Otherwise, select **Skip**.

Method 2:

- 1 Select the files or folders you want. (Press and hold Shift or Ctrl while making multiple selections.)
- 2 Drag any DiskStation folders or files from the main section to another DiskStation folder on the left panel.
- 3 In the pop-up menu that appears, choose Copy Overwrite or Move Overwrite to overwrite files or folders with the same name in the destination folder. Otherwise, choose Copy Skip or Move Skip to skip the files with the same filename.

Method 3:

- 1 Select the files or folders you want. (Press and hold Shift or Ctrl while making multiple selections.)
- 2 Go to Main Menu > File Browser to open a new File Browser window, and use the left panel to browse to a destination folder on Synology DiskStation.

- 3 Drag any DiskStation folders or files from the original File Browser window to the window you just opened.
- 4 In the pop-up menu that appears, choose Copy Overwrite or Move Overwrite to overwrite files or folders with the same name in the destination folder. Otherwise, choose Copy Skip or Move Skip to skip the files with the same filename.

Note: When copying or moving files/folders to a directory in FAT file system, characters *?">| in the filename will be replaced by –, and the Metadata of Mac files will be deleted.

Rename a File or Folder on Synology DiskStation

- **1** Select a file or a folder.
- 2 Do one of the following:
 - Choose **Rename** from the **Action** menu.
 - Right-click the file or folder and choose Rename.
- 3 Enter a new name in the window that appears and click OK.

Create a Folder

- 1 Go to the directory where you want to create a folder.
- 2 Do any of the following:
 - Click Create folder.
 - Choose Create folder from the Action menu.
- 3 Enter a new name in the window that appears and click OK.

Delete Files or Folders

- 1 Select the files or folders you want. (Press and hold Shift or Ctrl while making multiple selections.)
- 2 Do one of the following:
 - Choose Delete from the Action menu.
 - Right-click one of the files or folders and choose Delete.

Extract an Archive

- 1 Select an archive you want to extract.
- 2 Choose Extract from the Action menu. You can see the contents of the archive in the File list.
- 3 Click the Option tab to enter the password if the archive is password-protected.
- 4 Click **Destination** at the bottom, and select a destination folder on Synology DiskStation in the window that appears.
- 5 Do one of the following:
 - To extract all files and folders in the archive, click Extract All.
 - To extract some files or folders in the archive, select them in the File list and click Extract Selected.

Note: File Browser can extract the following archive formats: .zip, .tar, .gz, .tgz, .rar, .7z, .iso (ISO 9660 + joliet)

Compress Files or Folders

- 1 In the main section, select the files or folders on Synology DiskStation that you want to compress. (Press and hold Shift or Ctrl while making multiple selections.)
- **2** Do one of the following:
 - Choose Compress to "(file name)".zip from the Action menu.
 - Right-click one of the selections and choose Compress to "(file name)".zip.
 - To use advanced options (such as renaming or encrypting the archive, using different compression levels or modes), choose Add to archive instead.

Note:

- You cannot compress files or folders on your local computer using File Browser.
- Supported archive formats: .zip, .7z.

Open a File in a New Window

Open a file on Synology DiskStation in a new tab or window of the web browser to preview it instantly.

To open a file in a new window:

- 1 Select the file you want to preview.
- 2 Do one of the following:
 - Choose Open in New Window from the Action menu.
 - Right-click the file and choose Open in New Window.

If your browser can view the selected file, it will be opened in a new browser window.

Note: The browser setting will decide what file types can be viewed directly.

Edit the Properties of Files and Subfolders

You can edit the access privileges to files and subfolders (meaning folders and their subfolders in a shared folder), copy download links and open file in a new browser window in the **Properties** window.

Name:		fun		
Location:		/volume1/music/fun		
Size:		0 Bytes. Contain 0 file(s), 0 folder(s)		
Modified Date:		2011-01-30 06:09:44		
Download Link	:	http://chrislaids410j.no-ip.org	:5000/fbdownload	
Privilege				
Owner:	Read	Vrite	Execute	
Group:	🔽 Read	W rite	Execute	
Others:	🔽 Read	Vrite	Execute	
Owner & Grou	ıp			
Owner:		admin	~	
Group:		users	~	

Allow Users and Groups to Access Files and Subfolders

With File Browser, you can set access privileges to files and subfolders. This function is especially useful when you want to allow different groups of users to access different subfolders in a shared folder.

Owner:	Read	Vrite	Execute
Group:	Read	Vrite	Execute
Others:	Read	Vrite	Execute
Owner:	а	dmin	*
Owner:	а	dmin	~
		sers	*

Note: To set access privileges to shared folders, use Synology DiskStation Manager instead. See "Allow Users or Groups to Access Shared Folders" on Page 81 for more information.

To allow users and groups to access files and subfolders:

- 1 Select the files and folders for which you want to set access privileges. (Press and hold Shift or Ctrl while making multiple selections.)
- 2 Do one of the following to open the Properties window:
 - Choose Properties from the Action menu.
 - Right-click one of the files or folders and choose Properties.
- 3 In the Owner & Group section, do the following:
 - Choose the owner of the selected files and folders from the Owner drop-down menu.
 - Choose the user group of the selected files and folders from the Group drop-down menu.
 - All the other users or groups not chosen here belong to the Others group.
- 4 In the Privilege section, allow or disallow Owner, Group, and Others to access the selected files and folders by ticking any of the Read, Write and Execute checkboxes.
- **5** Tick **Apply to this folder, sub-folders and files** if you want to give the same access privileges to all the subfolders and files within the selected subfolders.
- 6 Click OK.

Note: You are not allowed to edit the access privileges to files and subfolders in the **photo** shared folder here. To set access privileges to photo albums for Photo Station users, see "Set as Private Album" on Page 137 for more information.

Obtain a File or Folder's Download Link

You can obtain the download link to a file or folder and share the link with other users.

eneral	
Properties	
Name:	01733_desert_1920x1200.jpg
Location:	/volume1/dl/01733_desert_1920x1200.jpg
Size:	1.14 MB
Modified Date:	2008年12月29日 上午08時33分08秒格林威治標準時間+08:00
Modified Date: Download Link:	2008年12月29日上午08時33分08秒格林威治標準時間+08:00 http://192.168.37.47:5000/fbdownload/01733_dese

To obtain a file or folder's download link:

- 1 Select the file or folder for which you want to obtain its download link.
- 2 Do one of the following to open the Properties window:
 - Choose **Properties** from the **Action** menu.
 - Right-click the file or folder and choose Properties.
- **3** Right-click the download link, and choose the pertinent function from the shortcut menu to copy the download link. The name of the function may vary depending on the web browser you are using.
- 4 Send the link to other users via Email or instant messages. They can download the linked file or folder by entering their username and password.

Note:

- To download a file or folder with the download link, valid DiskStation username and password are required.
- With File Browser, you can only perform the upload action for files and folders on your computer. All the other File Browser actions and properties setting are available for files and folders on Synology DiskStation only.

Edit Music Information

With File Browser's Music Information Editor, you can view or edit the information of music files.

🗟 Music Inform	ation Editor			00
Title:	All I Do Is Win			
Artist:	DJ Khaled Feat. Luda	acris, Snoop Dogg, Rick	Ross & T-Pain	
Album:	MixFiend.com / Mixta	apeTorrent.com		
Comment:	MixFiend.com / Mixta	apeTorrent.com		
Track:		Genre:	Hip-Hop	~
Disc:		Year:	2010	
Album Artist:	MixFiend.com / Mixta	apeTorrent.com		
Composer:	MixFiend.com / Mixta	apeTorrent.com		
Codepage:	System default			~
			Save Car	ncel

To view or edit music information:

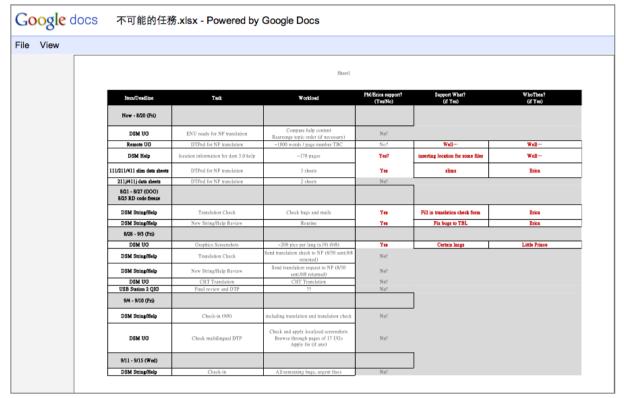
- 1 Right-click the music file and choose Edit music information.
- 2 Here you can view or modify the music file's information, or choose a language from the Codepage drop-down menu to convert non-Unicode text to Unicode and display the text in the correct language. (System default is the codepage you specified at Main Menu > Control Panel > Regional Options.)
- 3 Click Save to finish the setup.

Note: Music Information Editor supports the following formats: mp3, wma, wav, ogg.

View Documents, Photos, or Videos

With File Browser, you can view documents, videos or photos.

View Documents in Google docs



- 1 Browse to the folder where the document is located.
- 2 Right-click the document and choose View in Google docs.

Note: The View in Google docs function supports the following formats: doc, docx, odt, ppt, pps, xlsx, pdf, tif

3 A new browser window should appear and display your document in Google docs. You can log in to your Gmail account and save the document in Google docs.

Preview Photos



- 1 Browse to the folder where the photos are located.
- 2 Right-click any of the photos and choose **Preview** to open the Photo Viewer window. You should be able to view the photo now.

Note: Photo Viewer supports the following formats: jpg, jpeg, jpe, bmp, gif, png, tiff, tif, arw, srf, sr2, dcr, k25, kdc, cr2, crw, nef, mrw, ptx, pef, raf, 3fr, erf, mef, mos, orf, rw2, dng, x3f, raw

- 3 At the top of Photo Viewer, do any of the following to control photo preview:
 - Click Info to see the EXIF, IPTC, or XMP information of the photo (if any).
 - Click Play/Pause to start or pause photo slideshow.
 - Click Previous or Next to see the previous or next photo in the folder.
 - Click Rotate 90° clockwise or Rotate 90° counter-clockwise to rotate the photo.
 - Click **Delete** to delete the current photo.
- 4 Hover your mouse over the bottom of Photo Viewer to reveal the thumbnail sliding bar for quick navigation.

Play Videos



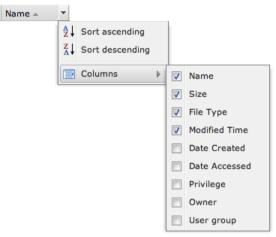
- 1 Browse to the folder where the video is located.
- 2 Right-click the video and choose Play to open the Video Player window.
- **3** The video should start playing right away. If not, please make sure you have installed VLC Player (Windows, Linux) or VLC web browser plug-in (Mac) on your local computer.

Note:

- VLC Player or web browser plug-in is not supported by Chrome for Windows and Safari for Mac.
- Video Player supports the following formats: avi, dat, mkv, vob, asf, wmv, mov, qt, divx, flv, swf, rm, rmvb, mpg, mpeg, mpeg1, m1v, mpeg2, m2v, mp2, dvr-ms, m2ts, mts, m2t, ts, tp, trp, mpeg4, m4v, mp4, 3g2, 3gp, 3gp2, ogv, webm
- 4 At the bottom of Video Player, do any of the following to control video playback:
 - Click Play/Pause to play or pause the video.
 - If you have a subtitle file with the same name and in the same folder as the video, you should be able to see the subtitle during video playback. If you want to use another subtitle file, choose it from the drop-down menu.
 - Use the Progress bar to skip to any point you want.
 - Use the Volume bar to adjust the volume.
 - Click Stop to stop playback.

Display Additional Attributes

You can display additional attributes of files or folders to show them in new columns of the main section.



To display additional attributes:

- 1 Hover your mouse to any column header and click the downward triangle that appears on the right.
- 2 From the drop-down menu that appears, choose the Columns submenu.
- 3 Tick the checkboxes next to the extra attributes to show them in new columns.

Access Files via File Station

Go to Main Menu > Control Panel > File Station to enable File Station, which allows you to access DiskStation files through a customized port.

To enable File Station:

- 1 Tick Enable File Station (HTTP) and specify a customized port number.
- 2 If you want to have the connection to File Station encrypted via the SSL/TLS encrypting mechanism, tick Enable File Station (HTTPS) and specify a customized port number.
- 3 If you want to activate the mini banner to save vertical space, tick Use mini banner.
- 4 If you want to record the activities of all users, tick Enable File Station log.
- 5 Click OK.

To see the File Station log:

Go to Main Menu > System Information > Log, and choose File Station log from the drop-down menu. The user activities are shown under the Event column, including Upload, Download, Delete, Rename, Move, Copy and Property set.

To customize File Station:

- 1 Under Customization, do any of the following:
- 2 Customize the login message in the Message field.
- 3 Change the banner color in the Change banner color field.
- 4 Click the button next to Upload banner image to upload your favorite banner image.
- 5 Click OK.

To launch File Station, do any of the following:

- Click the link next to Login at.
- Go to Main Menu and click File Station.
- Type Synology DiskStation's IP address or server name or domain name plus a colon and the customized port number (e.g. http://ericawang.dyndns.org:7000) in the address bar of your web browser. Press Enter (PC) or Return (Mac) on your keyboard.

Back Up Data



Synology offers comprehensive backup solutions for your computer and Synology DiskStation. You can back up data on your computer to Synology DiskStation. If you are **admin** or a user belonging to the **administrators** group, you can also back up DiskStation data with local or network backup, or sync shared folder contents between DiskStations. The creative Copy button simplifies external storage devices backup with One-touch design. The support for the Amazon S3 backup service and the innovative Time Backup package give you other choices for server backup.

Back Up Computer Data

Synology-designed Data Replicator 3 allows you to back up data from a Windows computer to Synology DiskStation. If you are using a Mac or Linux, Synology DiskStation can also serve as their backup destination.

Use Data Replicator for Windows

The Synology Data Replicator installation package can be found on the Installation CD and Synology's Download Center at: http://www.synology.com/support/download.php

😯 Synology Data Replicator 3			
DATA Replicator 3	0	Velp Select a backup destination	About
Backup	0	Check the folders you want to backup.	Select
Restore		Outlook, Outlook Express, and Windows Mail Files My Documents Desktop C: D: H:	
Options Log			
		J	
	3	Choose a backup mode	
		Immediate Sync Schedule	
			Synology®
Ready			

What Can Data Replicator Do?

- Monitor specific folders on your Windows computer and perform real-time backup when any modification to the contents within a monitored folder is made.
- Adjust backup versions and restore points.
- Restore backup data from Synology DiskStation to your Windows computer according to your preference.

Important:

- Your computer and Synology DiskStation should use the same encoding. See "Language" on Page 36 for more information.
- Synology Data Replicator 3 is the next generation of Synology Data Replicator. It can only restore the data on Synology DiskStation that was backed up after Data Replicator 3 was installed. If users have backed up data on Synology DiskStation using Synology Data Replicator, we recommend restoring data on Synology DiskStation to PC first before using Synology Data Replicator 3.

Data Replicator Requirement

- Free HDD Space: 5MB
- Operating System: Windows 2000 or later
- Best Screen Resolution: 1024 x 768 or above
- Network Environment: Microsoft Networking over TCP/IP enabled and has network connection with Synology DiskStation

Install Data Replicator

- 1 Insert the Installation CD into the optical drive of your computer.
- 2 Click Data Replicator 3, and follow the onscreen instructions to finish installation.

Synology X
Synology'
Start
Quick Installation GuideUser's Guide
 Synology Assistant Data Replicator 3 Download Redirector
Browse DVD S Exit

Use Data Replicator

For detailed instructions on how to use Data Replicator, see its Help by clicking the Help button.

Use Time Machine for Mac



Synology DiskStation provides compatibility for backup with Apple Time Machine. Mac users can back up their data to Synology DiskStation's shared folder without problem.

To set Synology DiskStation as Time Machine's backup destination: 1 Go to Main Menu > Control Panel > Win/Mac/NFS and tick Enable Mac file service. 2 Choose a shared folder from the Time Machine drop-down menu. The chosen shared folder will become Time Machine's backup destination.

Note: For more information about using Time Machine, see the help on your Mac computer.

Use rsync for Linux

You can use rsync to back up Linux data to Synology DiskStation.

Back Up Data on Synology DiskStation

Other than backing up computer data to Synology DiskStation, you as **admin** or a user belonging to the **administrators** group can back up the data in your shared folder or even the subfolders on your Synology DiskStation.

Ways to Back Up Synology DiskStation Data

Local Backup and Network Backup are ways you can choose to back up data on your Synology DiskStation. Plus, Synology DiskStation also supports Amazon S3 Backup, allowing you to back up data to the Amazon S3 Server.

Local Backup

Local Backup allows you to back up data to the LocalBackup folder in the following locations on your Synology DiskStation:

- Another shared folder
- An external USB or eSATA Disk attached to your Synology DiskStation

Note: You may need to format the external disk before performing Local Backup to the disk for the first time.

Network Backup

Network Backup allows you to back up data to the **NetBackup** folder in the following locations within the Intranet or over the Internet:

- Another Synology DiskStation
- A rsync-compatible server

About Network Backup encryption:

- Non-encrypted: Back up without data encryption. It provides better performance.
- Encrypted: Back up with data encryption. It can protect your data with higher security.

Note: To ensure backup efficiency, it is recommended that you choose encrypted mode for important files only.

About backup modes for backing up to rsync-compatible server:

- The **rsync daemon mode** is used when you select a backup module (shared folder on the rsync-compatible server) from the drop-down menu next to **Backup module**.
- The remote shell mode will be enabled only when you enter an absolute path (starting with "/") in Backup module.

Note: Remote shell mode only supports encrypted backup.

Amazon S3 Backup

Amazon Simple Storage Service (S3) Backup allows you to back up data to the Amazon S3 server.

After you perform an Amazon S3 Backup task, a single backup file will be stored in a **Bucket** on Amazon S3 Server, which is identified by a unique **Set KEY Value** that begins with **SourceServerName_MAC address**, and ends with the complete file path of this file.

For more information about Amazon S3 Backup, visit its website at: http://aws.amazon.com/s3/

Note:

- There are also encrypted and non-encrypted modes for Amazon S3 Backup. See "Network Backup" on Page 108 for more information.
- Fees may apply to use the Amazon S3 Backup service.
- For more information about backing up DiskStation data, go to Main Menu > Backup and Restore and click the Help button (with a question mark) at the top-right corner.

Perform Backup Tasks on Synology DiskStation

Go to Main Menu > Backup and Restore to perform backup tasks on Synology DiskStation.

🔠 Backup and	Restore					Ø 🕀 🔁 🔞
Backup	Configuration	Backup Shared Folder Sy	/nc			
Create	Get Info	Edit Delete Back	up now Cancel Re	store		
т	ask	Backup type	Backup contents	Destination	Status	Backup status
						11

Before you start, do the following first:

- For Network Backup to another Synology DiskStation: Log in to the target Synology DiskStation, click the Network Backup Service tab and make sure Enable network backup service is ticked to make the target DiskStation available for backup.
- For Local Backup to external disks: Go to Main Menu > Control Panel > External Devices and click Format to format the external disk.

Create a Backup Task

Click Create and follow the wizard to complete the setup.

Backup Wizard	8
Select destination type	
• Local Backup	
Back up data to an external disk or a system shared folder.	
 Network Backup (Synology server) 	
Back up data to another Synology server.	
 Network Backup (rsync-compatible server) 	
Back up data to a rsync-compatible server.	
Amazon S3 backup	
Back up data to an Amazon S3 server	
Back Next	

Edit a Backup Task

- 1 Select the backup task you want to edit.
- 2 Click Edit and modify settings.
- 3 Click OK.

Delete a Backup Task

1 Select the backup task you want to remove. (Press and hold Shift or Ctrl while making multiple selections.)

2 Click Delete.

Perform Immediate Backup

You can perform an immediate backup for a backup task at any time.

To perform immediate backup:

1 Select the backup task you want to back up. (Press and hold Shift or Ctrl while making multiple selections.)

2 Click Back up now.

Cancel a Backup Task

You can cancel backup tasks in progress or in waiting list.

To cancel a backup task:

1 Select the backup task to you want to cancel. (Press and hold Shift or Ctrl while making multiple selections.)

2 Click Cancel.

Restore Backup Data

Click Restore and follow the wizard to complete the setup.

Back Up and Restore System Configuration

Go to Main Menu > Backup and Restore > Configuration Backup to back up and restore the settings of your Synology DiskStation, including users, groups, and shared folders.

🟥 Backup and Restore	
Backup Configuration Backup Shared Folder Sync	
 Back up system configuration Back up the user, group, and shared folder settings to a .dss file. 	
Restore system configuration	
Overwrite conflicted settings	
Select a backup file: Choose File no file selected	
	ОК
	11

To back up system configuration:

- 1 Choose Back up system configuration.
- 2 Click OK.
- **3** The configuration file (named **configuration.dss**) will be downloaded to your computer's default download folder.

To restore system configuration:

- 1 Choose Restore system configuration.
- 2 Click the button next to Select a backup file to select configuration.dss.
- 3 Click OK.

Sync Shared Folder Contents between DiskStations

Shared Folder Sync allows you to sync shared folder contents from a source DiskStation (or "client") to a destination DiskStation (or "server") over the network.

Enable Shared Folder Sync Service

Before performing Shared Folder Sync, you need to enable Shared Folder Sync service on the server (destination DiskStation) before pairing the server with a client (source DiskStation).

Control Panel - Network Backup	0	8
		?
Network Backup Shared Folder Sync Service Enable this service to make your DiskStation a server that allows Shared Folder Sync connection. Image: I		

To enable Shared Folder Sync service on the server:

- 1 On the server (destination DiskStation), log in to DSM with the credentials of **admin** or a user belonging to the **administrators** group.
- 2 Go to Main Menu > Control Panel > Network Backup.
- 3 Under the Shared Folder Sync Service tab, tick Enable Shared Folder Sync Service.
- 4 Click OK.

Pair or Unpair the Server and the Client

Follow the instructions below to pair or unpair the server and the client. Please note that one server can be paired with only one client at a time, while a client can sync shared folders with multiple servers. If you want to use another client to sync shared folder contents with the server, you need to unpair the server from the current client, allowing another client to perform Shared Folder Sync with the server.

Shared Folder Sync Service Enable this service to make your DiskStation a server that allows Shared Folder Sync connection.						
Enable Shared Folder Sync Service						
Info						
Server status:	Idle					
Server is currently paired with:	(null)					
berver is currently pured with	ection allows your [

To pair the server with a client:

On a client (source DiskStation), perform Shared Folder Sync and choose the server as sync destination. After the pairing process is complete, you can see the pairing status in the **Info** section.

Note: See "Manage Sync Tasks" for more information about how to perform Shared Folder Sync to a server.

To unpair a server from a client:

- 1 On the server (destination DiskStation), log in to DSM with the credentials of **admin** or a user belonging to the **administrators** group.
- 2 Go to Main Menu > Control Panel > Network Backup.
- 3 Click Reset.

Manage Sync Tasks

After Shared Folder Sync service is enabled on the server (destination DiskStation), you can log in to a client (source DiskStation) to perform Shared Folder Sync with the server.

ackup and Restore					000
Backup Configuration	Backup Shared Folde	r Sync			
reate Edit D	elete Cancel Syn	Now Full Sync			
Task	Source	Destination	Status	Last sync result	Schedule
TUSK	Jource	Destination	Status	Last sync result	Schedule

To create a sync task:

- 1 On the client (source DiskStation), log in to DSM with the credentials of **admin** or a user belonging to the **administrators** group.
- 2 Go to Main Menu > Backup and Restore, and then click the Shared Folder Sync tab.
- 3 Click Create.
- 4 Enter a name for the task.
- 5 Select the shared folder you want to sync to the destination.
- 6 Set up the destination and the following transfer options of this sync task:
 - Enable transfer encryption: Encrypt data during transfer. Encrypted transfer provides better security, while non-encrypted transfer provides better performance.
 - Enable transfer compression: Compress data during transfer. It will save network bandwidth but increase CPU loading.
 - Enable block-level synchronization: Transfer only differential data instead of whole files. It will save network bandwidth but increase CPU loading. Set up the destination and transfer options of this sync task.
- 7 Set up schedule for the task. There are 3 schedule modes:
 - Periodically: Run sync task by specific interval of hours. The time starts counting from midnight. And the interval cannot exceed 24 hours.
 - Manually: Only run sync when manually performed.
 - Daily: Run sync task daily at specific time.
- 8 Click Apply.

To edit or delete a sync task: Select the task and click Edit or Delete.

To cancel an ongoing sync task: Select the task and click Cancel.

To perform immediate syncing: Select the task and click **Sync Now**.

Note:

- During first time synchronization, Shared Folder Sync will makes a full sync of the selected shared folder(s). Afterwards, only changed files will be synced from the client to the server.
- All files that have been removed from the client will also be removed from the server.
- The access privilege to folders synced to the server will be set as default, which means not specified.
- During the syncing process, the client will copy the selected shared folders to the server. However, if a folder with the same name already exists on the server, that folder will be renamed as "shared_folder_name 1" to prevent its data from being overwritten.
- Task name must be of 1 to 32 Unicode characters and must not contain the following characters:
 ! " # \$ % & '() * +, /:; <= > ? @ [] \ ^` { } | ~
- If you sync shared folders from ext4 to ext3 file system, you may encounter errors when a folder has over 32,000 files in a single directory.
- If the shared folders on the server have been synced with another client, Shared Folder Sync will perform a full sync for the task.
- When transfer encryption is enabled, you have to set up the password. It cannot be left empty.
- When syncing to DiskStation over Internet, you can enter the server name by its external IP address or its hostname. However, if you choose to enter its hostname, the name must be in FQDN (Fully Qualified Domain Name) format, like "abc.bcd.com", for example.
- To set up port-forwarding rules for Shared Folder Sync over the Internet, please choose port 22 for encrypted transfer and port 873 for unencrypted transfer.
- An encrypted shared folder will remain encrypted after syncing. You need the encryption key to mount the shared folders on the destination DiskStation.

Backup DiskStation Data with Time Backup

Synology Time Backup is a quick and flexible way to backup and restore shared folders on DiskStation. You can back up the data locally onto another volume, or onto an external hard disk. You can set up multiple **tasks** and create more than one **version** for each task.

Time Backup features snapshot function. When creating a version, the system will take a **snapshot** and capture the condition of the data within the specified moment. The system will create a version entry within seconds. You can access the newly created version and edit the files you've just backed up with no time delay.

Synology [®] Time Backup							Timeline	Settings	?
			2010081	15-0000					
	Root			۵	D Filter				
	Display • Action	•							
	Name 🔺	Size	File Ty	Modified Time		Owner			
	🧰 backup			2010年7月27日 下午 0	1:49:04	0			
20100803-14	🚞 homes			2010年5月25日下午 0					
▲ P Filter	🧰 music			2010年7月13日 上午 1	1:40:27	0			
	🚞 NetBackup			2010年3月11日下午 0					
	🚞 photo			2010年5月5日 上午 10					
	🗀 surveillance			2010年7月27日 下午 0					
	🚞 video			2010年1月25日下午 0					-
	🚞 web			2010年5月31日下午 0	4:27:38	0			-
	K K Page 1 of 1	> н	C R	efresh 50 🗸	Displayi	ng 1 - 8 of 8			-
						-			
Past		7 Da	ys ago				Recent	Tasks	- 632
			İ			0		- HUSKS	***

The Time Backup package is available at Synology's **Download Center**. To learn more about how to use Time Backup, see its help by clicking the **Help** button (with a question mark) at the top-right corner.

Note: For more information about installing packages for Synology DiskStation Manager, see "Manage Packages" on Page 211.

Use USBCopy to Back Up Data on USB Device

You can copy data from a USB device to a shared folder on your Synology DiskStation using the Copy button.¹

Go to Main Menu > Control Panel > External Devices > USBCopy and specify a shared folder from the dropdown menu. All data on your USB device will be copied to the specified shared folder when you perform USBCopy.

Control Panel - External Devices	00
	?
External Devices SDCopy SDCopy	
Enable USBCopy	
USBCopy allows you to copy data from the USB device to the DiskStation with one-touch of the Copy button on th front panel.	ne
Shared folders to back up: public	
OK Cance	

To perform USBCopy:

- 1 Connect the USB device to the USB port of your Synology DiskStation.
- 2 Press the Copy button (with the letter C) on the front panel of your Synology DiskStation.

Note:

- Only USB devices in FAT or NTFS format are supported.
- USB devices must be plugged into the USB port on the front panel of Synology DiskStation.
- The available space of the destination shared folder must be larger than the used space of the USB device.

¹ USBCopy is supported on specific models only. See "Appendix A: Synology DiskStation Specifications" on Page 219 for more information.

Use SDCopy to Back Up Data on SD card

You can copy data from a SD card to a shared folder on your Synology DiskStation using the Copy button.¹

Go to Main Menu > Control Panel > External Devices > SDCopy and specify a shared folder from the dropdown menu. All data on your SD card will be copied to the specified shared folder when you perform SDCopy.

1	Control Panel - External Devices	00
F		?
	External Devices USBCopy SDCopy	
	Enable SDCopy	
	SDCopy allows you to copy data from the SD card reader to the DiskStation with one-touch of the Copy button on the front panel.	
	Shared folders to back up: public	
	OK Cancel	

To perform SDCopy:

- 1 Connect the SD card to the SD card slot of your Synology DiskStation.
- 2 Press the Copy button (with the letter C) on the front panel of your Synology DiskStation.

Note:

- Only SD cards in FAT or NTFS format are supported.
- The SD card must be plugged into the SD card slot on the front panel of Synology DiskStation.
- The available space of the destination shared folder must be larger than the used space of the SD card.

¹ SDCopy is supported on specific models only. See "Appendix A: Synology DiskStation Specifications" on Page 219 for more information.

Chapter

Host Websites, Email Server, and Print Server

Synology DiskStation is especially designed for small and medium businesses (SMB), providing them with the ability to set up web, email, and print servers on a single Synology DiskStation without spending extra money.

Use Web Station to Host Websites

Go to Main Menu > Control Panel > Web Services to set up your website with Web Station, which is integrated with support for PHP and MySQL.

Enable Web Station

When Web Station is enabled, the **web** shared folder will be created automatically. Save your web page content in the folder to publish it on your website.

X	Control Panel - Web Ser	vices				00
÷						?
	Web Applications	PHP Settings	HTTP Service Options	WebDAV		
	🔽 Enable Web Statio	n				
	Enable Web Statio	n to create a websi	ite.			
	Virtual Host					
	📃 Enable personal w	ebsite				
	Enable this option	to allow local users	to create a personal websit	te by uploadir	ng web pages to their home directory.	
	Enable MySQL					
	Enable MySQL to u	ise database functio	ons.			
	Location:	Volume 1 (Available: 1754.52 GB) 💌			
					OK Cancel	

To enable Web Station:

1 Tick Enable Web Station.

2 Click OK.

Web Station support and limitations include:

- The homepage for your website must be named index.htm, index.html, or index.php.
- PHP 5.3.2 is supported.
- The following functions are not supported by PHP: system(), exec().
- When you use the PHP mail() function, the system will automatically retrieve and use the SMTP server information from Synology DiskStation. Make sure you have entered the correct SMTP server information.

Note: For more information about SMTP server, see "Receive Email Notification" on Page 212.

- The real path of the web shared folder is /volume1/web. Some applications require the user to set the path in the configuration file.
- The names blog, photo, photosrc, and webdefault are reserved folder names. These names cannot be used by Web Station, so please do not create folders with these names under the web shared folder.
- You can customize the error page by creating any of the following files and putting them in the web shared folder: missing.html, missing.htm, or missing.php. When users try to connect to a page that does not exist, this customized error page will be displayed.

Enable Virtual Host to Host Websites

The Virtual Host support allows you to host up to 30 websites on one Synology DiskStation. Each website can have different port number or even different hostname.



To enable Virtual Host and host websites:

- 1 Click Virtual Host to open the settings window.
- 2 Click Create and enter the following information.
 - a The name for the subfolder (in the web shared folder) that will contain the web pages to build the website
 - b The hostname for the website
 - c The protocol (HTTP or HTTPS) for the website
 - d The port number for the website

Note: To use HTTPS protocol, HTTPS connection needs to be enabled in advance. See "HTTP Service Options" on Page 26 for more information.

3 Click OK.

4 Click Virtual Host and go through the above steps again if you want to set up more websites.

Enable Personal Website

The personal website function is a convenient way to allow Synology DiskStation users to host their own personal website. Each user will have a unique website address http://Synology_Server_IP/~username or http://Synology_Server_Name/~username.



Note: Before enabling personal website, make sure User Home is enabled. See "Create User's Home Folder" on Page 75 for more information.

To create a personal website:

- 1 Tick Enable personal website and click OK.
- 2 Create a www folder in the user's home folder.
- 3 Upload web pages to the www folder.

Personal website Support and limitations:

- Local users are only allowed to access the data in the following path:
 - Their own home folder
 - /var/tmp
 - /tmp

- /volume1/@tmp/php
- Synology DiskStation users can customize the error page by creating any of the following files and putting them in the www shared folder: missing.html, missing.htm, or missing.php. When users try to connect to a page that does not exist, this customized error page will be displayed.

Enable MySQL

You can enable MySQL to use the MySQL database function for your website. After MySQL is enabled, you can install the **phpMyAdmin** package available at Synology's **Download Center** to manage the MySQL database.

📃 Enable personal website		
Enable this option to allo	w local users to create a personal website by uploading web pages to their home directory.	
Enable MySQL		
Enable MySQL to use dat	abase functions.	
Location:	Volume 1 (Available: 1754.52 GB)	

To Enable MySQL:

Tick **Enable MySQL** and choose a volume to store the database data.

Note:

- For more information about installing packages for Synology DiskStation Manager, see "Manage Packages" on Page 211.
- By default, the ID for the phpMyAdmin administrator is **root**, and the password is blank. It is recommended that you change the password.
- You can go to Main Menu > Control Panel > Restore Defaults to delete your MySQL databases. See "Restore Synology DiskStation to Factory Defaults" on Page 214 for more information.

Manage PHP Settings

After you have enabled Web Station, you can click the PHP Settings tab to configure PHP related settings.

🕺 C	ontrol Panel - Web Services	08
-		?
	Web Applications PHP Settings HTTP Service Options WebDAV	
	 Turn on PHP configuration option register_globals. Enable PHP cache Enable display_errors to display PHP error message Enable PHP safe_mode_exec_dir access limitation 	
	Important: It is recommended that you turn on the [Enable PHP safe_mode_exec_dir access limitation] option for security reasons. Customize PHP open_basedir	
	open_basedir: /etc:/tmp:/usr/bin/php:/usr/syno/etc/preference:/usr/syno/synoman:/var/package Note: If errors occur due to wrong setting of open_basedir, uncheck "Customize PHP open_basedir" and click "OK" to restore to system default.	
	Select PHP extension	
	OK Cancel	

To turn on PHP configuration option register_globals:

- 1 Tick Turn on PHP configuration option register_globals if the PHP application you use requires the register_globals option to be turned on.
- 2 Click OK.

Important: it is recommended that you turn off the register_globals option for security reasons.

To enable PHP cache:

- 1 Tick Enable PHP cache if you wish to enhance the PHP performance. However it may not take effect under some circumstances.
- 2 Click OK.

To customize PHP open_basedir:

- 1 Tick Customize PHP open_basedir if you wish to customize your own open_basedir.
- **2** Type the customized path in the text field. Use ":" to separate between each path. For example: /etc:/tmp:/usr/bin/php
- 3 Click OK.
- 4 If you want to use the system default setting, uncheck the Customize PHP open_basedir and click OK.

To select PHP extension:

- 1 Click Select PHP extension to customize your own PHP extension.
- 2 In the pop-up dialog PHP extension List, select which extension you want to enable.
- 3 You can also click Default at top of the dialog to return to default settings.
- 4 Click OK.

More Information

Install Featured Applications

- After you have finished setting up your web environment, you can install applications to enhance the features
 of your website using many of the free Open Source applications.
- For a list of featured applications tested to be compatible with Synology DiskStation, visit http://www.synology.com/support/faq_show.php?q_id=404. For the download links and installation instructions of those applications, visit their official websites.

Modify HTTP Service Options

Click the HTTP Service Options tab at Control Panel > Web Services. In addition to the default port number 80, you can add another port for the use of Photo Station and Web Station.

Control Panel - Web Services	00
	?
Web Applications PHP Settings HTTP Service Options WebDAV	
Add additional HTTP port	
In addition to the default port number 80, you can add another port for the use of Photo Station and Web Station.	
HTTP:	
Enable HTTPS connection for web services	
By enabling this function, HTTP connections for web services will be protected via SSL/TLS connections.	
Import Certificate	
OK Cancel	

To add an additional HTTP port:

- 1 Tick Add additional HTTP port.
- 2 Enter any port number between 1 and 65535 in the Enter the port number field.
- 3 Click OK.

Important: You cannot use the following port numbers for HTTP access, because they are reserved for system use.

- Port number: 20, 21, 22, 23, 25, 110, 137, 138, 139, 143, 199, 443, 445, 515, 543, 548, 587, 873, 993, 995, 3306, 3689, 5335, 5432, 8080, 8081, 9997, 9998, 9999, 50001, 50002
- FTP port range: 55536-55663
- BitTorrent port range: 6881-6890
- Surveillance Station port range: 55736-55863

To enable HTTPS connection for Web Station and Photo Station:

- 1 Tick Enable web HTTPS connection.
- 2 Click the optional Import Certificate.
- 3 Click OK.

By enabling this function, HTTP connections to Web Station and Photo Station will be protected with SSL/TLS encrypting mechanism.

Note:

- For more information about importing certificate and enabling HTTPS connection for other services, see "HTTP Service Options" on Page 26.
- For more information about Photo Station, see "Chapter 11: Share Photos, Videos, and Blogs with Photo Station" on Page 129.

Manage WebDAV

Click the **WebDAV** tab at **Main Menu > Control Panel > Web Services** to enable WebDAV. By enabling WebDAV, you can manage and edit files on DiskStation remotely.

Web Applications PHP Settings HTTP Service Options WebDAV Enable WebDAV to allow users to edit and manage files on DiskStation remotely. Image: Comparison of the second se	Xc	ontrol Panel - Web Se	rvices			e 🖸 🖸
Enable WebDAV to allow users to edit and manage files on DiskStation remotely. Enable WebDAV Port: 5005 Enable WebDAV HTTPS connection Port: 5006 Enable WebDAV log View Logs Enable Anonymous WebDAV Users can access shared folders with the "anonymous" user name while WebDAV login. Make sure the "Anonymous"	4	→ ▲				?
Enable WebDAV to allow users to edit and manage files on DiskStation remotely. Enable WebDAV Port: 5005 Enable WebDAV HTTPS connection Port: 5006 Enable WebDAV log View Logs Enable Anonymous WebDAV Users can access shared folders with the "anonymous" user name while WebDAV login. Make sure the "Anonymous"						
 Enable WebDAV Port: 5005 Enable WebDAV HTTPS connection Port: 5006 Enable WebDAV log View Logs Enable Anonymous WebDAV Users can access shared folders with the "anonymous" user name while WebDAV login. Make sure the "Anonymous 		Web Applications	PHP Settings	HTTP Service Options	WebDAV	
Port: 5005 Enable WebDAV HTTPS connection Port: 5006 Enable WebDAV log View Logs Enable Anonymous WebDAV Users can access shared folders with the "anonymous" user name while WebDAV login. Make sure the "Anonymous		Enable WebDAV to a	allow users to edit a	and manage files on DiskSt	ation remotely.	
Enable WebDAV HTTPS connection Port: Enable WebDAV log View Logs Enable Anonymous WebDAV Users can access shared folders with the "anonymous" user name while WebDAV login. Make sure the "Anonymous		🗹 Enable WebDAV				
Port: 5006 Enable WebDAV log View Logs Enable Anonymous WebDAV Users can access shared folders with the "anonymous" user name while WebDAV login. Make sure the "Anonymous"		Port:	5005			
 Enable WebDAV log View Logs Enable Anonymous WebDAV Users can access shared folders with the "anonymous" user name while WebDAV login. Make sure the "Anonymous 		Enable WebDAV	HTTPS connection			
View Logs Enable Anonymous WebDAV Users can access shared folders with the "anonymous" user name while WebDAV login. Make sure the "Anonymous"		Port:	5006			
		View Logs	-			
OK Cancel						OK Cancel

To enable WebDAV:

- For HTTP connection:
 - a Tick the Enable WebDAV checkbox. The default port number for the WebDAV service is 5005.
 - **b** Click OK.
- For HTTPS connection:
 - a Tick the Enable WebDAV HTTPS connection checkbox. The default port number for WebDAV HTTPS is 5006.
 - b Click OK.

Use WebDAV to Manage Files in Different Environments

You can use WebDAV to manage files in different environments. You can set it up as a network drive on your operating system, or access it via a browser or on a smartphone.

When using WebDAV service, we suggest you use UTF-8-supported WebDAV clients to manage your files. This can prevent the file names from becoming unreadable characters after uploading.

To use WebDAV on Windows XP/Vista:

- 1 Right-click on My Computer and select Map Network Drive.
- 2 Click Connect to a Web site that you can use to store your documents and pictures.
- 3 Click Next.
- 4 Click Next.
- 5 Enter the path for the network drive. The path should include the IP or the DDNS of your DiskStation and the port number. An example would be http://demo.no-ip.info:5005/.
- 6 Click Next.
- 7 Enter your account and password. Click OK.
- 8 Name this network drive. Click Next.
- 9 Click Finish to finish the settings.

Note:

- Before you start using a WebDAV client software under Windows environment, please check if you have installed Windows patch Web Folders (KB907306).
- When using WebDAV service under Windows environment, if you want to switch to another user account, you need to log out of Windows system first.

To use WebDAV on Windows 7:

For Windows 7 users, you need to have a client program to use WebDAV. A program like this would be **Netdrive**. You can also find other client software on the Internet.

Note: Before you start using WebDAV client software under Windows environment, please check if you have installed Windows patch Web Folders (KB907306).

To use WebDAV on Mac:

- 1 Choose Go > Connect to Server from the menu bar.
- 2 Enter the Address field. The address should include the IP or the DDNS of your DiskStation and the port number. An example would be http://demo.no-ip.info:5005/.
- 3 Enter your user name and password.
- 4 Click Connect.

Note: WebDAV supports Bonjour broadcast.

To use WebDAV on Ubuntu:

- 1 Click Places > Connect to server.
- 2 Select WebDAV (HTTP) or WebDAV (HTTPS) from the drop-down menu.
- **3** Enter the information required, including server location, port, folder, and user account. Click **Connect** to continue.
- 4 Enter your password and click Connect.

To use WebDAV via Linux command line:

If you'd like to use command line, you can use **cadaver**, a command-line WebDAV client software to setup access.

To use WebDAV on Internet Explorer:

This is only supported in Internet Explorer 7 or earlier versions. If you are using Internet Explorer 8 or beyond, please consult other methods provided in help or use a WebDAV supported client software.

- 1 Click Files > Open.
- 2 Enter the address in the Open field. The address should include the IP or the DDNs of your DiskStation and the port number. An example would be http://demo.no-ip.info:5005/.
- 3 Enter your username and password. Click OK.

To use WebDAV on Firefox:

To use WebDAV on Firefox browser, you need to first install plug-in applications that support WebDAV, two of which are:

- Trail-Mix: www.trail-mix.com
- Mozdev: webfolder.mozdev.org

Note: Before using WebDAV on web browsers, Windows Vista users have to start WebDAV service first. For more information, see "Use WebDAV to Manage Files in Different Environments" on Page 121, and then follow the steps of "To use WebDAV on Windows XP/Vista".

To use WebDAV on mobile devices:

For iOS or Android devices, you can use WebDAV via client apps. Examples:

- iOS: DAV-E and GoodReader
- Android: WebDavDroid and Mobile WebDAV

Host Mail Server

You can turn your Synology DiskStation into a mail server, allowing Synology DiskStation users to receive and deliver mail messages using their mail client programs.

Before you start

Register a domain name for your IP, or apply for a DDNS hostname.

Note: For more information about registering a DDNS account for Synology DiskStation, see "Give Synology DiskStation a DDNS Hostname" on Page 61.

 When applying for a domain name or dynamic domain name, please fill the MX (Mail eXchanger) record of mail domain with your mail server (that is the FQDN of Synology DiskStation).

For example, if the mail server is mail.synology.com, then fill the MX record with mail.synology.com.

Go to Main Menu > Control Panel > User and enable User Home service to allow users to store their mail
messages in their home folders. Otherwise, they will not be able to send or receive mails.

Note: For more information about User Home, see "Create User's Home Folder" on Page 75.

Confirm the port forwarding settings:

You should follow the table below to setup port forwarding if NAT is required.

Protocols	SMTP	POP3	IMAP	IMAPS	POP3S
Port	25	110	143	993	995
Note			APS: IMAP over S P3S: POP3 over S		

Set up Mail Server

Go to Main Menu > Control Panel > Mail Server to enable DiskStation's mail server service.

🔏 Control Panel - Mail Server	00
	?
Mail server settings Mail receiving settings	_
Enable SMTP to deliver and receive mails.	
Enable SMTP	
SMTP Authorization is required	
Domain name:	
Maximum size per email (MB): 10	
☑ Enable spam filter	
Click http://192.168.37.47/mail/ to launch Mail Station, and then go to [Admin Settings] > [SMTP Server Settings] to set webmail settings.	
OK Cancel	

To set up mail server:

1 Under the Mail server settings tab, do the following:

- a Tick Enable SMTP to deliver and receive mails.
- **b** Tick **SMTP** Authorization is required if you want to prevent your mail accounts from being used as a spammer.

If you use this option, then your users must provide their Synology DiskStation user account and password for authentication while setting SMTP server in their mail clients. Take Outlook Express, for example, you

can enable the option at My server requires authentication in Tools > Accounts > Mail Account > Properties > Servers.

c Fill in the Domain name. Your users' mail address will be: user_name@domain_name or user_name@DDNS_hostname

Note: Make sure you entered the same domain name for your IP, or the same DDNS hostname you registered in Main Menu > Control Panel > DDNS.

- d Tick Enable spam filter to avoid receiving junk emails.
- e Click OK.
- 2 Under the Mail receiving settings tab, enable at least one of the protocols (POP3, POP3 SSL/TLS, IMAP, and IMAP SSL/TLS) to receive mails via mail clients.

Install Mail Station to Enable Webmail Service

With the Mail Station package up and running, DiskStation users can send and receive mails via DSM's webmail service.

To install Mail Station:

- 1 Download and extract the Mail Station package from Synology's Download Center at: http://www.synology.com/support/download.php
- 2 Go to Main Menu > Package Management and install the Mail Station package.

Note: For more information about installing packages for Synology DiskStation Manager, see "Manage Packages" on Page 211.

To connect to Mail Station:

Type the following web address in the address bar of your web browser, and then press Enter on your keyboard: http://Synology_Server_IP_Address/mail/

Note: For more information about using the webmail service, see **Mail Station 2 User's Guide** from Synology's Download Center at: http://www.synology.com/support/download.php

Set Synology DiskStation as Print Server

Go to Main Menu > Control Panel > External Devices to set DiskStation as the print server over your local area network, allowing client computers or mobile devices to access printers connected to DiskStation for printing, faxing, or scanning.¹

External Devices Get Info Format Eject USB Printer Manager Vetwork Printer Pixma MP640 Multifunction	0
Get Info Format Eject USB Printer Manager	
Get Info Format Eject USB Printer Manager •	
Pixma MP640	

Note: One DiskStation can be connected by up to 2 USB printers.

Set up Print Server on DiskStation

Under the External Devices tab, you can set up print server on DiskStation.

Notwork Drinton	
Network Printer Use print function only	
Network MFP	
Use print/scan/fax functions	
AirPrint	
Enable AirPrint	
Printer brand:	Epson
Printer driver:	Epson Stylus C41 👻

To set up print server on DiskStation:

- 1 Connect the network printer to the USB port of DiskStation, and select the printer's thumbnail appearing on the device list.
- 2 Click the Set Up Printer button, and choose either of the following operation modes:
 - Choose Network Printer If your printer only supports printing, or you want clients over the local area
 network to access the printing function only. If you want to print to the printer from an iOS device, tick

¹ For recommended peripheral models, including hard drive, USB printer, DMA, and UPS, please visit www.synology.com.

Enable AirPrint and choose your printer's brand and driver from the Printer brand and Printer dropdown menus.

 Choose Network MFP if you want clients over the local area network to use print/scan/fax functions of your multifunctional printer.

Note:

- Network MFP mode is available for Windows computers only.
- Enabling AirPrint will also enable DSM's Bonjour Printer Broadcast function. See "Manage Mac File Service" on Page 68 for more information.
- 3 Click Save, and then click Close.

Access Print Server with iOS Devices

If you have enabled DSM's AirPrint support by following the instructions of the "Set up Print Server on DiskStation" section, any iOS devices running on iOS 4.2 or later can print to the printer connected to your DiskStation.¹



To access the print server with an iOS device:

- 1 Use your iOS device to browse to the document, web page, mail message, or photo you want to print.
- 2 Tap the action button, then and tap Print.
- 3 Select the printer named [Printer_Name (DiskStation_Name)], and then tap Print.

Note: AirPrint is available for the Network Printer mode only.

^{1 1} For recommended peripheral models, including hard drive, USB printer, DMA, and UPS, please visit www.synology.com.

Set up Computer to Access Print Server

After the print server is set up on your DiskStation, Windows, Mac, and Linux client over the local area network can connect to the print server and access its print/fax/scan service.

er Mode	Printer Device	IP address	Server name	Status	
Synology I	Assistant - Setup Wizard				802
Please s	select the device to s	set up			
Select from t	he list below				Search
Printer Devi	ce	IP address	Printer Mode	Server name	
Hewlett-Pac	kard Officejet 6000 E609a	192.168.32.28	Network Printer	k408	
Hewlett-Pac	kard HP LaserJet P2055dn	192.168.47.11	Network Printer	Printer-5FW	
Canon, Inc.	Pixma MP640 Multifunction dev	ice 192.168.36.18	Network Printer	PMDemo	
Canon, Inc.	MG5200 series	192.168.32.28	Network Printer	k408	
Brother Indu	stries, Ltd MFC-255CW	192.168.32.20	Network Printer	phc-ds509p	
Hewlett-Pac	kard HP LaserJet P2055dn	192.168.47.12	Network Printer	Printer-5F	
				'	

To set up print server access with Windows:

- 1 Install and open Synology Assistant on your computer.
- 2 Click the **Printer Device** tab, click the **Add** button, and follow the wizard to complete the setup process. If you cannot see the **Printer Device** tab, enable it by clicking the **Settings** button (with a gear icon) at the top-right corner.

Note:

Using Synology Assistant to set up print server access under the Network Printer mode is only available for DiskStations running on DSM v2.0.1-3.0368 and onward.

Using Synology Assistant to set up print server access under the Network MFP mode is only available for DiskStations running on DSM v3.1-1553 and onward.

For other methods of setting up print server access, open DSM Help, go to and refer to **Other methods to set up a Network Printer**.

To set up print server access with Mac OS X:

- 1 Make sure DSM's Bonjour Printer Broadcast function is enabled. See "Manage Mac File Service" on Page 68 for more information.
- 2 For ways of setting up printer server access with Mac OS X, click the Help button (with a question mark) at the top-right corner of the External Devices tab, and then refer to the Set up The USB Printer With Your Mac section.

After the print server access is set up, clients over the local area network can access the printing/faxing/scanning service provided by the print server.

Release the Connection between Printer and Client

Under the External Devices tab, you can release the connection between the printer and a client.

When do I need to release the printer?

After a client connects to the multifunctional printer to receive faxes and scan files, the connection needs to be released to allow the next client in line to connect to the printer for faxing and scanning.

For more information about attaching or releasing a printer, click the **Help** button at the top-right corner of **Synology Assistant**, and refer to the **Attach/Release the printer** section.

To release the connection between the multifunctional printer and a client:

1 Select the printer from the device list.

2 Click Release Printer.

Note:

- Release Printer is only necessary for the Network MFP mode.
- Release Printer is not available when no client is attaching to the printer.

Manage Printer

Under the External Devices tab, you can manage the network printer connected to your DiskStation.

To get the printer's information:

- 1 Select the printer from the device list.
- 2 Click Get Info.

To remove all printing tasks from all printers (Network Printer mode only): Click Clean up spool space.

To disconnect the network printer:

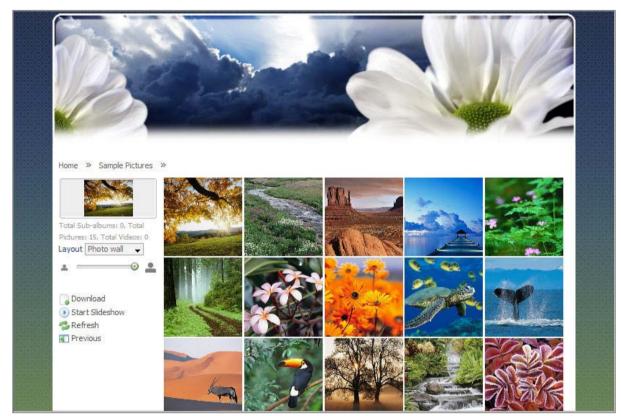
- 1 Select the printer from the device list.
- 2 Click Eject.

After the printer is ejected, you can disconnect the printer from the USB port of DiskStation.

Chapter

Share Photos, Videos, and Blogs with Photo Station

Photo Station is an online photo album integrated with a blog saved on your DiskStation. It makes creating albums and blogging fun and easy.



This chapter explains how to do the following:

- Enable Photo Station (for DSM admin) and Personal Photo Station (for DSM users) service
- Create Photo Station user accounts
- Upload and download photos and videos
- Manage the albums
- Manage the thumbnail view
- Customize Photo Station background and theme
- Find photos and videos with the search function
- Manage blogs

Enable Photo Station

Go to Main Menu > Control Panel > Photo Station to enable Photo Station owned by DSM admin.

X Control Panel - Photo Station	00
	?
Photo Station Personal Photo Station	_
Enable Photo Station to share photos and videos in the "photo" shared folder, and to publish your blog. You can also use Photo Station through mobile devices.	
To manage user accounts for Photo Station, go to the admin area of Photo Station.	
Second Enable Photo Station 4	
Set new albums as public	
Hide Photo Station from Main Menu	
Launch Photo Station Re-index	
OK Cancel	

To enable Photo Station:

1 Click the Photo Station tab.

- 2 Tick Enable Photo Station 4.
- 3 Click OK.

After it is enabled, the **photo** shared folder will be created automatically to contain Photo Station data.

To edit Photo Station settings:

- 1 Click the Photo Station tab.
- 2 Tick Set new albums as public if you want the uploaded photo albums available to visitors.
- 3 Click **Re-index** to reconstruct the index structure of the image files If you found missing images in Photo Station. The process will be executed in the background.
- 4 Click OK.

To launch Photo Station, do any of the following:

- Click Launch Photo Station.
- Go to Main Menu and click Photo Station.
- Type the following web address in the address bar of your web browser: http://Synology_Server_IP_Address/photo/

To connect via Mobile Device:

- Photo Station can be accessed using the web browser of a mobile device with Android OS 1.5 onward, iPhone OS 2.3.1 onward, or Windows Mobile 6.0 (Internet Explorer Mobile or Opera 9.0 or later).
- If you have a mobile device using iPhone OS 3.0 onward or Android OS 1.5 onward, you can also download DS photo+ on Apple App Store or Android Market to access Photo Station.

Note: For more information about using mobile devices to access Synology DiskStation services, see "Chapter 17: Communicate with Mobile Devices" on Page 217.

Support and Limitations

- Video formats viewable on Photo Station: 3G2, 3GP, ASF, AVI, DAT, DivX, FLV, M4V, MOV, MP4, MPEG, MPG, QT, WMV, XviD
- Video formats not viewable but downloadable on Photo Station: RM, RMVB, VOB, RV30, RV40, AC3, AMR, WMA3
- Maximum image file size: 20 MB (excluding images in RAW format)

- Browser requirement: JavaScript enabled
- Microsoft Internet Explorer requirement: ActiveX controls and plug-ins and Active scripting enabled
- Upload limit: If you upload contents with Photo Station, you can only upload up to 2GB of contents at a time.

Enable Personal Photo Station

DSM **admin** can enable Personal Photo Station service to allow all DiskStation users to have their own Personal Photo Station.

🔏 Control Panel - Photo Station	00
	?
Photo Station Personal Photo Station	_
Enable Personal Photo Station service to allow DiskStation users to has their own Photo Station. When it is enabled, users can enable or disable their Personal Photo Station on the "Options" page.	
OK Cancel	

To enable Personal Photo Station service for DiskStation users (by admin or a user belonging to the administrators group):

1 Click Enable Personal Photo Station service.

2 Click OK.

Note: Before enabling the service, make sure the "User Home" function has been enabled. See "Create User's Home Folder" on Page 75 for more information.

Enable DSM User's Photo Station

After Personal Photo Station service is enabled by **admin** or a user belonging to the **administrators** group, DSM users can choose to enable their own Photo Station.

🍨 Options	2 0 3
Account Volume Usage Desktop Photo Station Others	
Enable Photo Station - admin to share photos and videos in the "home/photo" folder, and to publish blog. You can also use Photo Station - admin through mobile devices. To manage user accounts for Photo Station - admin, go to the admin area of Photo Station - admin	
Senable Personal Photo Station - admin	
Set new albums as public	
Launch Photo Station Re-index	
ОК Са	ancel

To enable DSM user's Photo Station:

1 Click Options at the top-right corner of Main Menu, and then click the Photo Station tab.

2 Click Enable Personal Photo Station - [username] and click OK.

After Photo Station is enabled, the user can edit the Photo Station settings, which are basically the same as those of **admin**'s Photo Station.

To connect to the user's Photo Station, do any of the following:

- Click Launch Photo Station.
- Go to Main Menu and click Photo Station [username].
- Type the following web address in the address bar of your web browser: http://Synology_Server_IP_Address/~[username]/photo/

Manage Photo Station User Accounts

When Photo Station or Personal Photo Station is enabled by DSM admin or DSM users, they become the enabled Photo Station's administrator, who can create, update, and delete their Photo Station's user accounts.

Select Settings at the top of Photo Station's homepage, and then select the User Accounts tab on the Synology Photo Station 4 Settings page to add and edit Photo Station user accounts.

reate	3
User Information	
- Information	
Username:	guest1
Description:	
Password:	••••
Confirm password:	••••
Email:	
🗐 Set as admin	inge account information
	Submit Close

To add a new account:

1 Click Create and enter the username, description, and password.

2 If you like, do any of the following in the Other Settings section:

- · Choose whether to allow this user to modify his/her account information.
- Choose if you want to set this user as Photo Station's administrator. If this user is set as admin, he/she will be able to sign in with his/her own account and perform admin privileges.

3 Click Submit.

- 4 Under the Access Permissions tab, tick the checkboxes to allow the user to access private albums.
- 5 Under the Upload Permission tab, tick the checkboxes to allow the user to upload to the albums.
- 6 Click Submit.

To edit existing user accounts:

- 1 Double-click the user or select the user, and click Edit.
- 2 Modify user's information and permissions under the User Information, Access Permissions and Upload Permission tab.
- 3 Click Submit.

Note: By ticking Disable this account, you can deny the user's access until it's enabled again.

To remove a user account:

- 1 Select the user you want to delete, and click Delete.
- 2 Click Yes.

Create Albums

If you have Photo Station's admin privilege, you can use any of the following methods to upload the new album to the **photo** shared folder (for the default Photo Station managed by DiskStation **admin**) or **home/photo** folder (for Personal Photo Stations managed DiskStation users).

Note: The length of time required largely depends on the size and the amount of files. Of all the methods mentioned in this section, we recommend you use Photo Uploader (in Synology Assistant), which utilizes your computer's system resources for quicker thumbnail generation and video compression before the uploading process starts.

Upload Albums Using Photo Uploader (Synology Assistant)

You can upload your albums to Synology DiskStation using Photo Uploader, one of the several functions of Synology Assistant.

Add Remove Edit & Connect Profile Name Account chrislaids 410j admin To start photo uploading, click Add on the upper left-hand corner or select a profile
chrislaids410j admin
Thumbnail Select a photo or video to show its

Before uploading, Photo Uploader will use your computer to compress videos to H.264 format, and generate thumbnails for the photos and videos.

Note: For more information about using Photo Uploader, see the help of Synology Assistant.

Create Album Using Photo Station

Go to Photo Station's home page and click New Album to create a new album.

Photo Station 4 Photo+Video+Blog	
Frioto Station	Welcome, admin Photos Blog About Settings Sign out
Reorder Album	Search : •

Note: See "Upload Photos and Videos to an Album" on Page 135 for more information about uploading photos and videos to an album.

Upload via File Sharing Protocols or File Browser

Select the photos and videos on your computer, and put them in a folder that will become your new album.

To upload within the Intranet:

If your computer and Synology DiskStation are within the same Intranet, you can upload the album via the file sharing protocols for your platform.

Note: For more information about accessing folders within the Intranet, see "Access Files within the Intranet" on Page 88.

To upload over the Internet:

If your computer and Synology DiskStation are not within the same Intranet, you can upload your album via File Browser or FTP.

Note: For more information about accessing folders over the Internet, see "Access Files via FTP" on Page 91 or "Access Files via File Browser" on Page 94.

Upload Using DS photo+ (Mobile App)

If you have an iOS or Android device, you can upload photos from your device to Photo Station with DS photo+. See the DS photo+ Help for more information.



Manage Albums

Manage your albums with the upload, delete, download, and reorder functions. Edit the titles, descriptions, and access privileges according to your need. You can also enable virtual albums in Photo Station.



Edit Album Details

nformation		
— Information —		_
Album Name:	WEB	
Title:	Trip to the Highest Mountain	
Description:	so fun	
- Setting		
Set as public		
Allow user con	ments	
	OK Close	

- 1 Go to Photo Station's homepage and click Edit under the album you want to edit.
- 2 Modify the album's information and users' access permissions.
- 3 Choose whether to allow users to comment on images in this album.
- 4 Click OK.

Upload Photos and Videos to an Album

You can allow users to directly upload or download photos and videos via Photo Station.

Add title	٩,		Search : 💌
Add description			
Total Sub-albums: 0, Total Pictures: 8, Total Videos: 0		±	•
Layout Basic 🔽 Sort by Filename 🗾 Sort order Ascending 👤	Apply		
🦻 Map 🕟 Start Slideshov 🛛 🏹 Upload 🔂 Download 🤹	Refresh	New Album	🚞 Manage

To upload photos and videos to an album:

1 Select the album to which you want to upload photos and videos.

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2 Click Upload in the album information to select and upload photos and videos to the album. (If you cannot see the button, click the tiny downward triangle in the top-right corner to reveal the album information. The downward triangle will not be displayed if you are using the Photo wall layout.)

Note: Only users with the access and upload rights to the album can upload photos and videos. See "To add a new account" on Page 132 for more information.

Download Album

You can allow users to download albums via Photo Station.

Add title Search : •]
Add description	
Total Sub-albums: 0, Total Pictures: 8, Total Videos: 0	.
Layout Basic Sort by Filename Sort order Ascending Apply	
📍 Map 🕟 Start Slideshow 🛛 🕞 Upload 🔽 Download 🔁 Refresh 🛛 📷 New Album 📁 Manage	

To allow users to download albums:

- 1 Select Settings at the top of Photo Station's homepage, and then select the Photo tab on the Synology Photo Station 4 Settings page.
- 2 Tick Allow users to download album in Other Settings and then click Save.

To download an album:

- 1 Select Photos at the top of Photo Station's homepage, and then select the album you want to download.
- 2 Click Download. (If you cannot see the button, click the tiny downward triangle in the top-right corner to reveal the album information. The downward triangle will not be displayed if you are using the Photo wall layout.)
- 3 In the window that appears, do any of the following:
 - Select Download all to download the entire album as a zip file.
 - Select <u>Select items to download</u>, select the items you want to download and click OK. (Press and hold Shift or Ctrl while making multiple selections.)

Your selections will be downloaded as a zip file.

Reorder Albums

Go to Photo Station's home page, click **Reorder Albums**, and drag and drop the albums to reorder them. If you are using a touch screen, you can also reorder the albums with your fingers. Click **Save** to finish.



Set as Private Album

If you wish for the album to be accessible only by specific users, do any of the following.

Access Permissions	
Album	Public
20091004_summyGodiva	2
20110101_跨年	1
@eaStream	2
20100101_101 firework	2
@eaStream	2
20100420_brown sugar	2
@eaStream	2
20100515_MacBookPro	2
@eaStream	2
20100516_summyOffice	2
20100709_香港行	2
@eaStream	•
20100717_test	1
Fin	
Hram	
20100922美術館,溫德德國餐廳,雙聖之行	
20100922美術館,溫德德國餐廳,雙聖之行	1
20100925-0926清淨農場行	
20100925-0926清淨農場行	
20101219a_大佳花博	2
4 4 Page 1 of 2 ▶ ▶ 🛟	Displaying 1 - 20 of 3
	Save Close

Method 1:

- 1 Go to Photo Station's homepage, and click Edit under the album you want to edit.
- 2 Uncheck Set as public.
- 3 Assign users to the Access Permission list. You can also set the access permissions to the second tier album within an album, but only users with access to the first tier albums will be able to access the second tier albums.
- 4 Click OK.

Method 2:

- 1 Select Settings at the top of Photo Station's homepage, and then select the Photo tab on the Synology Photo Station 4 Settings page.
- 2 Click Customize next to Access Permissions.
- 3 In the window that appears, uncheck Public for the album you want to switch to private, and click Save to save the changes.

Note:

- This action will clear the albums' original access and upload rights. Please re-configure the albums' access rights and upload rights after saving the changes.
- You can set the new album as public by default from Synology DiskStation Manager. The second tier albums within the new album will inherit the same attributes from the first tier albums. See "Enable Photo Station" on Page 130 for more information.

Enable Virtual Album

Photo Station allows you to display the most recent photos and videos in virtual albums, which will be listed in front of all the other albums on the **Photos** page.

Recent photos	20	~
Recent videos	20	•
Recently commented photos	20	~
Recently commented videos	20	*

To Enable Virtual Album:

- 1 Select Settings at the top of Photo Station's homepage, and then select the Photo tab on the Synology Photo Station 4 Settings page.
- 2 Click Customize next to Display Virtual Album to open the settings window.
- 3 Tick any of the following checkboxes to enable the virtual albums:
 - Recent photos
 - Recent videos
 - Recently commented photos
 - Recently commented videos

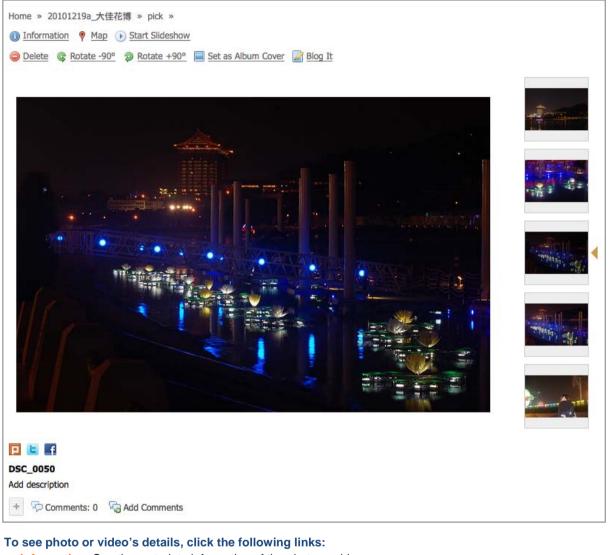
Move or Delete Album

Go to Photo Station's home page, click Manage, tick the albums, click Move or Delete, and then follow onscreen instructions to delete the selected albums or move them inside another album. Click Done to finish.

hoto Station 4 Photo+V	ideo+Blog		
		Welcome, admin Phot	tos Blog About Settings Sign out
Move Delete Done		٩,	Search : •
Empty		Concerned and the second	
☑ 100709_香港行	20100101_101 firew	20100922美術館, 溫	20100515_MacBookF

View and Edit Photos and Videos

After the album is created, you can connect to Photo Station and enter the **Photos** page, where you can see the albums you uploaded. Click the thumbnail of your album to see the thumbnails of all the photos and videos within the album.



- Information: See the metadata information of the photo or video.
- Map: See where the photo is taken if your camera can record the coordinate information.
- Start Slideshow: Start a slideshow of the album.
- Download the Video (video only): Download the video to your computer.

To make changes to a photo or video, click the following links:

- Delete: Delete the photo or video.
- Rotate +90° or Rotate -90° (photo only): Rotate the photo.
- Set as Album Cover: Set the photo or video as the cover of the album on the Photos page.
- Blog it: Add a new blog post with the photo or video embedded.

Note: Making changes to photos or videos are available for Photo Station administrators only.

To share photo or video's link to social network:

Click the Plurk, Twitter, or Facebook icons and follow onscreen instructions to share the photo or video's link to social network.

To add comments to photo or video:

Click Add Comments below the photo, and follow onscreen instructions to add comments to the photos.

Customize Album Layout

You can customize the album layout and photo thumbnails.

To customize album layout:

- 1 Select Settings at the top of Photo Station's homepage, and then select the Photo tab.
- 2 Select Custom from the drop-down menu under Style.
- 3 Click Customize to open the dialog.
- 4 Choose the block you would like to customize and modify your settings.
- 5 Click Save.

To customize photo thumbnails:

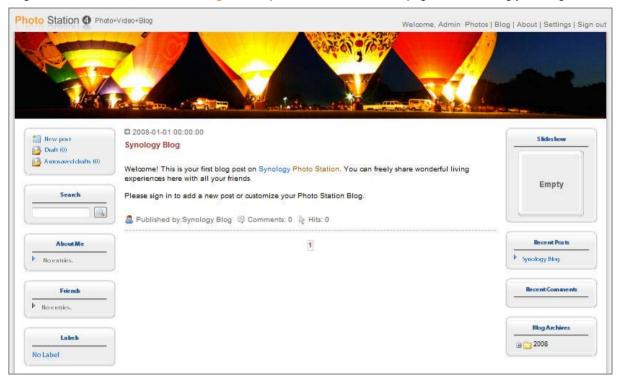
Select Settings at the top of Photo Station's homepage, and then select the Photo tab on the Synology Photo Station 4 Settings page to change the following thumbnail settings and order:

- To adopt a new layout for the photo thumbnails page, choose Basic, Photo wall, or Image Flow from the Thumbnail page layout drop-down menu.
- To determine the maximum width of the thumbnail, enter a number in the Default thumbnail size field.
- To determine the maximum number of thumbnails shown on a photo thumbnails page, enter a number in the Thumbnail per page field.
- To determine how the thumbnails are sorted, choose an option from the Sort by drop-down menu.
- To sort your thumbnails in ascending or descending order, choose an option from the Sort order dropdown menu.
- To determine the maximum width of displayed photo after clicking a thumbnail, choose an option from the Photo display size drop-down menu.

Use the Blog

The administrator can post blogs on Photo Station now. Moreover, you can also personalize your blog space by adjusting the layout and modules.

Log in to Photo Station, and select Blog at the top of Photo Station's homepage to start editing your blog.



Add a New Post

- 1 Click New post on the left side.
- 2 Enter the post title, edit the post, and insert images or videos if you wish. To insert a video, click the Insert/edit embedded media button (I) in the format bar above the text field, and then enter the video URL in the window that appears.
- 3 Select a label action from the Label Actions drop-down menu.
- 4 Click the Settings tab.
- 5 Choose readers from the drop-down menu.
- 6 If you wish to display a post abstract, tick Show abstract when article is on main page and enter the content.
- 7 To allow visitors to leave comments, tick Allow comments.
- 8 Click Publish.

Note:

- For the post title, you can enter up to 512 characters, whereas 40,960 characters are allowed for the post content.
- The following html tags in article content will be filtered out automatically: form, input, script, table, td, tr, tbody, th, html, body.

Delete a Post

- 1 Click the post title, and click Delete post.
- 2 Click Yes in the dialog window.

Personalize the Blog

The administrator can go to the **Settings** section to adjust the blog settings, such as changing the banner picture, naming the blog, editing the module settings, and deciding the blog layout, etc.

To edit basic blog settings:

Double-click the item or click Customize on the right side.

To edit module settings:

Choose a module from the drop-down menu, and click **Customize**. You can add your personal information here, or a slideshow of one of your photo albums, or links to your friends' sites.

To adjust the blog layout:

Go to the Appearance Settings area and click Customize next to Page Width and Banner or Layout & Modules, and decide the blog layout and modules you wish to display on the main page.

Find Old Posts

A Blog archive module contains all your posts, including those that don't appear on the main page.

To find an old post, do one of the following:

- Click the archive folders by year to unfold the monthly post records.
- Use the **Search** module to search all your previous articles with keywords.

Play Music with Audio Station

Chapter

Audio Station is a web-based audio application, allowing you to access the music library on your Synology DiskStation, choose available audio sources on the local area network, and add your favorite music to playlists for playback.

With Audio Station, you can also browse and play songs on your iPod or on the DLNA-certified Digital Media Servers, and listen to Internet radio.

Audio Station can play music through USB speakers connected to your Synology DiskStation, your computer, or DLNA-certified Digital Media Renderers.

This chapter explains how to enable Audio Station, choose audio source, browse music from the source, add music to the playlist, and add music and playlists to the queue panel for playback.

Ittle Album Artist Dura Track By Folder Velvet Moods (All R Joha 9:36 29 By Artist Breezer (DJ Ti All R Jurg 8:53 30 By Artist The Opera Son All R Jurg 8:21 31 By Genre Re-Form (DJ Ti All R Kid V 8:32 32 Tic Toc (Magik All R Kid V 8:32 33 Hungry (DJ TiQ All R Kosh 6:22 34 Did I Dream (D All R Kosh 6:22 34 Did I Dream (D All R Kosh 6:53 38 Internet Radio Pulsar 2002 (D All R Moby 6:53 Add Radio Station Extreme Ways All R Moby 7:11 41 We Are All Mad All R Moby 8:08 42 Dance Of The All R Moon 8:20 43	Playlist - Action	- Settings			All Categories 🗸 🔎 S	earch
 Nobody's Perfect (D) TiQst All R John 9:36 By Arlist Velvet Moods (All R Joha 9:36 By Arlist Breezer (D) Ti All R Jurg 8:53 The Opera Son All R Jurg 8:21 Re-Form (D) Ti All R Kid V 8:32 Tic Toc (Magik All R Kid V 8:32 Tic Toc (Magik All R Kosh 6:22 Tic Toc (Magik All R Kosh 6:22 Tic Toc (Magik All R Kosh 6:22 Hungry (D) TiQ All R Kosh 6:22 Nobody's Perfect (D) TiQsto Remix Hungry (D) TiQ All R Kosh 6:22 Nobody's Perfect. All R Mado 9:11 Nobody's Perfect. (D) TiQsto Remix) Nobody's Perfect. Nobody's Perfect. Nobody's Perfect. Nall R Mado 9:11 Nobody's Perfect (D) TiQsto Remix) 9:11 U Shine On (M All R Moby 6:53 Pulsar 2002 (D All R Moby Extreme Ways All R Moby Fixtereme Ways All R Moby Stoul Castion Shoul Castion We Are All Mad All R Moby 8:20 We are All Mad All R Moby 8:20 Wa favorite 	- Library	▲ Library ► All Mus	ic		Streaming Mode -	≣∗ ≭
	All Music By Folder By Album By Artist By Genre Random100 Personal Playlist New Playlist Shared Playlist Internet Radio Shared Station SHOUTcast(TM) RadioIO User defined	Title Velvet Moods (Preser (D) Ti The Opera Son Re-Form (D) Ti Tic Toc (Magik Tic Toc (Magik Did I Dream (D Did I Dream (D Did I Dream (D Pulsar 2002 (D Extreme Ways Xextreme Ways We Are All Mad	AlbumArtist Jari JAll RJohaAll RJunkiAll RJunkiAll RJurgAll RKid VAll RKid VAll RKoshAll RLostAll RMadoAll RMadoAll RMadoAll RMadoAll RMaturAll RMobyAll RMobyAll RMoby	7:42 28 9:36 29 8:53 30 8:21 31 8:32 32 7:23 33 6:22 34 8:33 35 9:11 37 6:53 38 7:12 39 6:28 40 7:11 41 8:08 42	Nobody's Perfect All Remixes Madonna 0:06 C It It I	(D) TiQsto Remix) -9:05 20 0 0 0 0 0 0 0 9:11
Media Server When Time Wil All R Moto 7:51 44	A			0.45 45		

Note: Audio Station supports the following formats:

Audio: (USB Mode) AAC, FLAC, M4A, MP3, Ogg Vorbis, WMA, WMA VBR; (Streaming Mode) MP3, M4A, M4B

• Playlist: M3U, WPL

Enable Audio Station

Go to Main Menu > Control Panel > Audio Station to enable Audio Station. After it is enabled, the **music** shared folder will be created automatically to contain your Audio Station data.

🔏 Control Panel - Audio Station	08
	?
C Audio Station	
Enable Audio Station to listen to music with USB speakers or stream music to client PC, iPhone, or iPod touch.	
C Enable Audio Station 3	
Launch Audio Station Re-index	
OK Cancel	
5	

To Enable Audio Station:

Click Enable Audio Station 3 and click OK.

To re-index audio files:

Click **Re-index** to reconstruct the index structure of the audio files If you found missing music in Audio Station. The process will be executed in the background.

To launch Audio Station, do any of the following:

- Click Launch Audio Station.
- Go to Main Menu and click Audio Station.

To connect via Mobile Device:

You can download DS audio from Apple's App Store or Android Market to play the music in Audio Station with your iOS and Android device. For more information about DS audio, see "Chapter 17: Communicate with Mobile Devices" on Page 217.

Choose Audio Source

On the left section of Audio Station are several audio sources you can choose from for playback on Audio Station.

Playlist - Action	Settings				All Categories 🗸 🖓 Se	arch
🔻 Library	▲ Library ► All Musi	с			Streaming Mode 👻	≣∗ ≭≣
All Music All Music By Folder By Album By Artist By Genre Random100 Personal Playlist New Playlist Shared Playlist Add Radio Station SHOUTcast(TM) RadioIO User defined My favorite	Title Title Velvet Moods (Breezer (DJ Ti The Opera Son Re-Form (DJ Ti Tic Toc (Magik Tic Toc (Magik Hungry (DJ TiQ Did I Dream (D Nobody's Perfe U Shine On (M Pulsar 2002 (D Extreme Ways Extreme Ways Extreme Ways Xe Are All Mad Dance Of The When Time Wil	All RJohaAll RJurki.All RJurgAll RKieaAll RKieaAll RLostAll RMado.All RMado.All RMado.All RMado.All RMado.All RMado.All RMado.All RMobyAll RMobyAll RMobyAll RMobyAll RMoby	 7:42 9:36 8:53 8:21 8:32 7:23 6:22 8:33 9:11 6:53 7:12 6:28 7:11 8:08 8:20 	Track 29 30 31 32 33 34 35 37 38 39 40 41 42 43 44	Nobody's Perfect (All Remixes Madonna 0:06 Title Nobody's Perfect (DJ TiQsto Remix) U Shine On (Magik Muzik Remix)	DJ TiQsto Remix)
r Media Server 灩 Scan Media Server	Southern Sun (-	. 9:45 I C	45 *	K < Page 1 of 1 > >	I C

Library

The library contains music in the **music** shared folders of your Synology DiskStation, which will be organized into the following categories.

To browse your music library, do any of the following:

- Click All Music to browse all music in the music shared folder.
- Click By Folder to browse music by directory.
- Click By Album to browse music by the album information of the song.
- Click By Artist to browse music by the artist information of the song.
- Click **By Genre** to browse music by the genre information of the song.
- Click Random100 to browse 100 songs chosen randomly by the system.

Personal and Shared Playlist

You can click the disclosure triangle next to **Personal Playlist** or **Shared Playlist** to see your personal playlists (viewable by yourself only) or shared playlists (viewable by all DiskStation users with access to Audio Station).

To edit your playlist, do any of the following:

- Select Refresh to update all playlists.
- Select New Playlist to create a new playlist.

Note: Only users with the Manage Playlist privilege (in Settings > Privileges in the top-left corner) can edit or add playlists.

Smart Playlist

You can click the disclosure triangle next to Smart Playlist to see your smart playlists.

To refresh your smart playlist:

Select Refresh to update all smart playlists.

To add or edit a smart playlist, do any of the following:

- Add or edit in DSM:
 - a Go to Main Menu > Control Panel > iTunes in Synology DiskStation Manager.
 - b Click Smart Playlist to add or edit your playlist.
- Add or edit in Audio Station: See "Work with Playlist" on Page 149 for more information.

iPod

If there is an iPod classic connected to the USB port of your DiskStation, you can click the disclosure triangle next to **iPod** to see the iPod connected to the USB port on Synology DiskStation.

To refresh iPod contents:

Select Refresh to update the iPod contents.

Note:

- Audio Station only supports iPods formatted by iTunes for Windows.
- Only users with the USB Mode or Streaming Mode privilege (in Settings > Privileges in the top left corner) have
 access to iPod contents.

Internet Radio

Audio Station comes with lists of Internet radio stations provided by **SHOUTCast(TM)** and **RadioIO**. You can also add your radio stations manually.

To add a radio station:

- 1 Select Add Radio Station to open the settings window.
- 2 Fill in the corresponding information (Name, Description, and URL) to add a radio station to the User defined list.

To see the list of radio stations:

- 1 Select an existing Internet radio provider or User defined list.
- 2 See the details of its radio stations in the main section.
- 3 Drag your favorite radio stations to My favorite for quick access.

Note: Only users with the USB Mode or Streaming Mode privilege (in Settings > Privileges in the top left corner) can listen to Internet radio.

Media Server

Audio Station can browse and play media contents on DLNA-certified Digital Media Servers or other Synology DiskStations on the local area network.

To search for media servers on the local area network:

Select Scan Media Server to search for available servers.

Note: Only users with the USB Mode or Streaming Mode privilege (in Settings > Privileges in the top left corner) can play media server contents.

Organize Your Music

After selecting one of the audio sources on the left side, you can browse its contents in the main section of the Audio Station, and organize your favorite music into playlists.

Playlist - Action	Settings			All Categories 🗸 🔎 Se	arch
Library	1 Library 🕨 All Musi	с		Streaming Mode 👻	≣• ;
All Music By Folder By Album By Artist By Genre Random100 Personal Playlist Refresh	Title Velvet Moods (Breezer (DJ Ti The Opera Son Re-Form (DJ Ti Tic Toc (Magik Hungry (DJ TiQ	All RJohaAll RJurgAll RKid VAll RKleaAll RKosh	8:53 30 8:21 31 8:32 32 7:23 33 6:22 34	Nobody's Perfect (All Remixes Madonna 0:06	DJ TiQsto Remix)
New Playlist	Did I Dream (D			Nobody's Perfect (DJ TiQsto Remix)	9:11
Shared Playlist Internet Radio Add Radio Station SHOUTcast(TM) RadioIO User defined My favorite Media Server	 Nobody's Perfe U Shine On (M Pulsar 2002 (D Extreme Ways Extreme Ways Extreme Ways We Are All Mad Dance Of The When Time Wil Southern Sun (All RMattAll RMobyAll RMobyAll RMobyAll RMoonAll RMoton	7:12 39 6:28 40 7:11 41 8:08 42 8:20 43 7:51 44	U Shine On (Magik Muzik Remix)	6:53

Browse Music

You can change views, see your current location, and use the search field to find your music quickly.

Note: If you see unreadable song titles, album names, or artist names while browsing through your music, go to Synology DiskStation Manager to set the correct codepage that matches the language of your computer, and then reindex your music. See "Language" on Page 36 and "Enable Audio Station" on Page 144 for more information.

Change Views

By clicking the three buttons above the main section, you can browse your songs in different views.

|--|--|--|

There are three views to browse your songs:

- List (the first button): Organize your items in a list.
- Icon (the second button): The icons or artwork (if any) of your songs or folders appear in the main section.
- Cover Flow (the third button): All icons/artwork and song/directory names appear using Cover Flow, a fancy
 way to flip through your library.

Note: Cover flow is available only when browsing the library using By Album or By Artist.

See Your Current Location

You can use the **Up** icon (with an upward arrow) or any of the path names above the main area to go back to previous directories.

▲ Library ► All Music

To go back to a previous directory, do any of the following:

Click the Up button to go back to the last directory.

• Click any of the path names to the right of the Up icon to go back to a previous directory.

Search Music

You can use the search field above the music player section of Audio Station to search your music.



To search music:

- 1 Choose a category from the All Categories drop-down menu.
- 2 Enter a word or phrase in the search field.
- 3 Press Enter (PC) or Return (Mac) on your keyboard.

The search result will appear in the main section.

To filter the artist, album, or genre to show in the main section:

When you are at the root directory of **By Album**, **By Artist**, or **By Genre**, you can see the **Filter** field above the main area of Audio Station. Enter a keyword in the field and press "Enter" on your keyboard to quickly find the album, artist, or genre you want, depending on your current location.

Edit Music Information

With Audio Station, you can view or edit the information of music files.

Edit music tag				
Title:	Nobody's Perfect (DJ 1	riQsto Remix)		
Artist:	Madonna			
Album:	All Remixes			
Comment:	Dj Tiesto All Remixes	Incl Magik Muzik And	d Gouryella Remixe	s
Track:	37	Genre:	Trance	~
Disc:		Year:	2006	
Album Artist:				
Composer:				
Codepage:	System default			~
			Save	incel

To view or edit music information:

- 1 Select one or more music files, and right-click to choose Edit music tag.
- 2 Here you can view or modify the music file's information, or choose a language from the Codepage drop-down menu to convert non-Unicode text to Unicode and display the text in the correct language. (System default is the codepage you specified at Main Menu > Control Panel > Regional Options.)
- 3 Click Save to finish the setup.

Note: You can only edit music files in the following formats: mp3, wma, wav, ogg.

Display Additional Attributes

You can display additional attributes of your music to show them in new columns of the main section.

- A	 Album Artis 		st		Dura
Az↓	Sort ascending				
Z↓	Sort descendin	g			
I	Columns	►		Title	
			V	Album	
			V	Artist	
				Genre	
			V	Duration	n
				Year	
				Disc	
·			V	Track	

To display additional attributes:

- 1 Hover the pointer over any column header of the main section, and click the downward arrow that appears to the right of the header.
- 2 From the pop-up menu, choose the Columns submenu.
- 3 Tick the checkboxes next to the extra attributes to show them in new columns.

Work with Playlist

You can organize your songs into playlists to categorize and access your favorite music more easily.

👻 Personal Playlist
🕗 Refresh
🔄 New Playlist
Shared Playlist

There are two types of playlists: **Personal playlist** (viewable by the DiskStation user who creates the playlist) and **shared playlist** (viewable by all DiskStation users with access to Audio Station).

To create a playlist, do any of the following:

- Method 1:
 - a Click New Playlist under Personal Playlist or Shared Playlist to create an empty playlist.
 - **b** While browsing through the library, select any songs/radio stations in the main section.
 - c Drag the selected songs/radio stations to the playlist you just created.
- Method 2:
 - a While browsing through your library, select any songs/radio stations you want in the main section.
 - b Drag the selected songs/radio stations to New Playlist below Personal Playlist or Shared Playlist.
- Method 3:
 - a Go to Playlist > New Playlist at the top-left corner to create an empty personal playlist. (if you want to create a shared playlist, tick Add as shared playlist.)
 - **b** While browsing through the library, select any songs in the main area, and then drag them to the playlist you just created.

To create a smart playlist:

- 1 Go to Playlist > New Smart Playlist at the top-left corner to create a personal smart playlist.
- 2 Name the playlist and click OK.
- 3 In the window that appears, click Add Rule to set the rules, and click OK.
- 4 You will see the new smart playlist under **Personal Playlist** on the left panel.

Note:

- You cannot add folders to playlists.
- You can also add songs from the queue to a new playlist. See "About the Output Modes and the Queue Panel" on Page 151 for more information.
- DSM administrators (DSM users belonging to the admin group) can create shared smart playlists by going to DSM's Main Menu > Control Panel > iTunes and clicking the Smart Playlist button.

To rename or remove a playlist:

Right-click the playlist and choose Rename or Delete.

To adjust the order of songs in a playlist, do any of the following:

- Select songs in the main section and click Up or Down on the top to move them up or down in the playlist.
- Select and drag the songs up or down in the main section.

To remove songs from a playlist:

Press and hold Shift or Ctrl while making multiple selections, and right-click to choose Delete.

To copy a shared playlist to a personal playlist and vice versa: Right-click the playlist and choose Copy to personal playlist or Copy to shared playlist.

To edit the rules of a smart playlist:

Right-click the playlist and choose Edit smart playlist to modify the rules.

Play Music

The right side of Audio Station consists of the queue panel and the music player. You can play the music added to the queue with the music player.

Library	▲ Library ▶ All Music	c		Streaming Mode -	=-
Library All Music By Folder By Album By Artist By Genre Random100 Personal Playlist Refresh New Playlist Shared Playlist Internet Radio	 The Opera Son Re-Form (DJ Ti Tic Toc (Magik Hungry (DJ TiQ 	Album All RArtist Jan JDur 7:44All RJoha9:36All RJoha9:36All RJunki8:52All RJung8:21All RKid V8:32All RKlea7:22All RKosh6:22All RLost8:33All RMado9:13All RMado6:53	2 20 3 29 3 30 4 31 2 32 3 33 2 34 3 35 3 38	Streaming Mode • Nobody's Perfect (All Remixes Madonna 0:06 • Title Nobody's Perfect (DJ TiQsto Remix) U Shine On (Magik Muzik Remix)	(DJ TiQsto Remix) -9:05 2 Duration 9:11 6:53
Add Radio Station SHOUTcast(TM) RadioIO User defined My favorite Media Server	🞵 When Time Wil	All R Moby 7:11	41 3 42 0 43 1 44		

About the Output Modes and the Queue Panel

To play music via different devices, you can add songs to the different output modes in the queue panel.

Streaming Mode 👻			
~	Streaming Mode		
	Media Renderer		

The output modes include the following:

- Streaming Mode: Stream music to your computer for playback via the speakers of your computer.
- USB Mode: Play music via the USB speakers connected to the USB port of your Synology DiskStation, or via external speakers or home stereo equipment connected to the audio dock of Synology Remote (sold separately).
- Media Renderer: Play music via a Digital Media Renderer (DMR) within your local area network.

Note:

- USB Mode and Media Renderer mode are available only when corresponding output devices are found by Audio Station.
- For more information about Synology Remote, visit www.synology.com.

To switch between output modes:

Choose any of them from the drop-down menu at the top of the music player.

Note: You can play music in different modes at the same time.

Add Music to Queue

You can add your songs from the library to the queue panel on the right side for playback.

🛧 Libra	▲ Library ► All Music				
Title	Albu	m - Artist	Dura	Track	
🎜 Tear	s From Th All R	Conj	8:08	8	n
🎜 The			s:21	9	
🎜 Sai	Save selection	5	7:01	10	
J. Inn	Play		7:24		
Ja Sile	Add selections		L1:36		
Ver	Song informati	on	7:32		
🎜 Bla	Edit music tag		3:44		
Ja Ma	Open containin	ig folder	10:00	15	

To add your songs from the library to the queue panel, do any of the following:

- Double-click an item in the main section to add it to the queue and start playing it right away.
- Select one or more items in the main section, and then drag them to the queue.
- Select one or more items in the main section, right-click and choose Add selections to queue to add selected songs to the queue.
- Right-click an item and choose Add all to queue to add all items in the same directory to the queue.

Add a Playlist to Queue

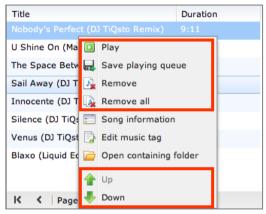
You can add or append playlists to the queue panel on the right side for playback.

	Play	
	Add to queue	
<u>,</u>	Delete	
2	Rename	
₿	Copy to personal playlist	

To add a playlist to the queue and replace the existing songs in the queue: Right-click the playlist and choose Play. Audio Station will play the songs in the playlist immediately.

To append a playlist to the queue without replacing the existing songs in the queue: Right-click the playlist and choose Add to queue.

Manage Songs in the Queue Panel



To play a song in the queue:

Right-click the song and choose Play to play it right away.

To adjust the order of songs in the queue, do any of the following:

- Select and drag the songs up and down in the queue.
- Select the song, right-clicking one of them, and choosing Up or Down.

To add all songs in the current queue panel to a new playlist:

Right-click any of the songs and choose Save playing queue.

To remove a song from the queue:

Select the song, right-click and choose **Remove**.

To remove all songs from the queue:

Right-click any of the songs and choose Remove all.

Note: Only users with the USB Mode or Streaming Mode privilege (in Settings > Privileges in the top left corner) can access relevant modes.

Play Music with Music Player

You can play the music added to the queue with the music player.



The upper part of the music player displays the information of the currently playing music, including the song's title, album, artist, and duration. The lower part contains the controls you can use to control music playback.

To play a song: Click Play/Pause, Next, or Previous.

To skip to any point in the currently playing song:

Drag the playhead along the timeline (below the song's duration) to any point you want.

To customize sound frequencies with equalizer (USB mode only):

Click the EQ button to open the equalizer, tick the checkbox, and choose a preset from the drop-down menu. You can also drag the sliders and save your own User Defined preset.

To adjust the volume:

Drag the volume slider below the timeline.

To repeat all songs or currently playing song in the queue, or turn off repeat:

Click the **No repeat**, **repeat all**, **or repeat one** button (the first button from the left in the lower-right corner of the music player).

To play the songs in the queue in random order:

Click Shuffle on/off (the second button from the left in the lower right corner of the music player).

Play Music with Mini Player

Click the Switch to mini player button at the top-right corner of the music player.

Audio Station	Ī

To play a song: Click Play/Pause, Next, or Previous.

To skip to any point in the currently playing song:

Drag the playhead along the timeline (below the song's duration) to any point you want.

To adjust the volume:

Drag the volume slider below the timeline.

To switch back to the full mode:

Click the Switch to full mode button at the bottom-right corner of the mini player.

Enable Transcoder

Enabling transcoder will allow Audio Station to support more audio formats under streaming mode. The following audio formats will be transcoded if your browser does not support them: FLAC, APE, AAC, OGG, AIFF, WMA, WAV.

Settings
Privileges Transcoder Options
Enabling transcoder will allow Audio Station to support more audio formats under streaming mode. For detailed information, please refer to Audio Station's help file.
Enable transcoders
 Transcode to WAV format
WAV format occupies less system resources. However, this format is supported on limited browsers.
 Transcode to MP3 format
By transcoding to MP3, you enjoy better browser support. However, this also occupies more system resources.
OK Cancel //

To enable transcoder:

1 Go to Settings > Transcoder.

2 Tick Enable transcoders and choose any of the following:

- Transcode to WAV format: WAV format is supported on specific browsers only. (Firefox 3.5 and above, Safari 5, Opera 10.60)
- Transcode to MP3 format¹: By transcoding to MP3, you enjoy better browser support. However, this also
 occupies more system resources.

3 Click OK.

Download Music

You can enable music download and then download songs from Audio Station to your local computer.

Settings	
Privileges Transcoder Options	
Enable music download	
	OK Cancel

To enable music download:

- 1 Click Settings and then click the Options tab.
- 2 Tick Enable music download.
- 3 Click OK.

To download music, do any of the following:

- Select multiple songs by holding Ctrl key and right-click to choose Download selected song(s).
- Right-click any of the songs in the queue panel, and choose Download playing queue.
- Right-click any playlist and choose Download playlist.

¹ Transcode to MP3 format is supported on specific models only.

Chapter

Download Files with Download Station

Download Station is a web-based download application, allowing you to download files from the Internet to your DiskStation.

This chapter explains how to enable Download Station and manage download tasks.

Synology 🛛 🤤) 🕂 😋							Filter	
wnload	File name	File s	Dow	Prog	Uplo	Dow	Time Left	Status	User name
E All Downloads	✓synolog	132.09	132.09	100.0%				Completed	admin
Downloading	✓OFFICE	733.23	733.23	100.0%				Completed	admin
Completed	♠Incepti	1.37 GB	1.37 GB	100.0%	0.00 K			Seeding	admin
😳 Active Downloads	✓kmp.exe	14.40 MB	14.40 MB	100.0%				Completed	admin
Inactive Downloads	✔index.h	58.29 KB	58.29 KB	100.0%				Completed	admin
11 Stopped	✔index1	60.57 KB	60.57 KB	100.0%				Completed	admin
rrent Search	▶ 201012	2.26 MB	2.26 MB	100.0%				Completed	admin
Search Results	▶ 201012	2.02 MB	2.02 MB	100.0%				Completed	admin
S	✓index2	59.88 KB	59.88 KB	100.0%				Completed	admin
RSS Feeds		6.50 GB	1.14 GB	17.6%	0.00 K	0.00 K		Downloadi	admin
	KKP	age 1	of 1 💙	у С	DL: 0.00 H	KB/s UL: 0	.00 KB/s	Displa	ying 1 - 10 of
	General								

Enable Download Station

Go to Main Menu > Control Panel > Download Station to enable Download Station.

🔏 Control Panel - Download Stat	ion	00
← →		?
 Enable BT/HTTP/FTP/NZB of Enable eMule downloads Location: 	o use DiskStation as a download center. downloads Volume 1 (Available: 1018.62 GB) h all applicable laws and regulations when using this download service.	
Launch Download Station	OK Cancel	

To enable Download Station:

Tick Enable BT/HTTP/FTP/NZB downloads or/and Enable eMule downloads, depending on which download methods you want to use.

To connect to Download Station, do any of the following:

- Click Launch Download Station.
- Go to Main Menu > Download Station.

To go to the BT/HTTP/FTP/NZB or eMule section of Download Station:

After connecting to Download Station, click the **BT/HTTP/FTP/NZB** or **eMule** tab at the bottom of Download Station.

BT/HTTP/FTP/NZB	eMule	

Set up BT/HTTP/FTP/NZB

Click the **BT/HTTP/FTP/NZB** tab at the bottom of Download Station, and click the gear icon next to the search field at the top to manage the following settings of BT/HTTP/FTP/NZB.

Download Station Synology Image: Constraint of the synology All Categories	© ⊖ ⊖ ©
<i>Note:</i> For detailed information about BT/HTTP/FTP/NZB settings, open DSM Help and then go Station > BT/HTTP/FTP/NZB > Set up BT/HTTP/FTP/NZB.	to Download

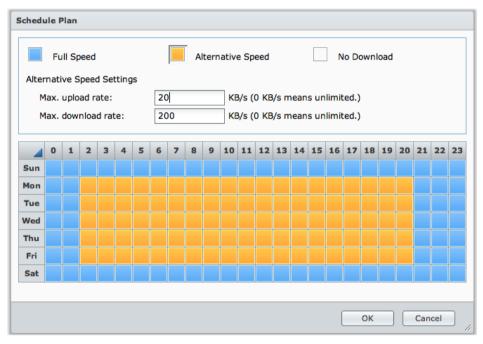
General

In this section, you can set download schedule, specify download destination folder, prioritize process order, and enable notification.

Setting						
General Premium Account E	litTorrent	Torrent Search	FTP / HTTP	NZB	RSS	
Download Schedule						
 Immediately 						
O Advanced schedule						
Schedule Plan						
Default Destination Folder						
Destination:	home		Select			
Process order						
• By date created						
O By user (one task at a time)						
Maximum active download tasks:	10	~				
Hint: Multiple active download tasks i	night result	in lower system perfo	ormance.			
Send email notification upon task	completion					
Display desktop notification upon t		tion				
					Ok	Cancel

Download Schedule

You can limit BT/HTTP/FTP/NZB's download tasks to certain time period of a week and alternative speeds, so that you can free up more network bandwidth when needed.



To set advanced schedule:

- 1 Tick Advanced schedule.
- 2 Click Schedule Plan and do the following:
 - a If you want to limit download tasks to alternative speeds during certain periods of a week, enter the maximum download or upload rates in the Alternative Speed Settings section. ("0" means unlimited.)
 - **b** Choose any of the following and click on the grid to limit download tasks' time or speeds to certain period of a week:
 - No Download: Do not download or upload files.
 - Default Speed: Download or upload files at the default maximum speeds.
 - Alternative Speed: Download or upload files at the maximum speeds you specified in the Alternative Speed Settings section.

3 Click OK.

Default Destination Folder

Do the following to set the download destination folder for BT/HTTP/FTP/NZB.

Default Destination Folder		
Destination:	home Select	

- 1 Click Select and choose a folder.
- 2 Click Select.
- 3 Click OK.

Premium Account

There are many online file sharing websites, where registered users can upload files and share the download links to the files with other people. If you have a premium membership for such websites, you can use Download Station to directly download their files without entering user credentials for each download task.

Setting			
General Premi	um Account BitTorrent	Torrent Search FTP / HTTP	NZB RSS
Hostname	Username	Password	Confirm password
Megaupload			
Rapidshare			

Download Station now supports the premium accounts of the following websites:

- RapidShare
- Megaupload

To enter your premium account credentials:

1 Double-click the fields under Username, Password and Confirm password, and enter your credentials.

2 Click OK.

BitTorrent

In this section, you can edit the settings for downloading BitTorrent files.

To set up BitTorrent upload and download rates:

Enter the maximum upload and download rate for BitTorrent downloads and uploads in the Max. upload rate or Max. download rate fields. ("0" means unlimited.)

Torrent Search

In this section, you can see a list of default BitTorrent search engines. When you use the **Torrent Search** function to search for torrent files, Download Station will list search results provided by these search engines.

Setting		
General	Premium Acco	unt BitTorrent Torrent Search FTP / HTTP NZB RSS
Upload	Delete	
Enabled	Name	Description
	KickassTorrents	KickassTorrents.com is a quickly growing torrent search engine. Our main goal is to provide you
	nyaatorrents	A BitTorrent community focused on East Asian media including anime, manga, music, and more.
	fenopy	fenopy.com
	ExtraTorrent	The Biggest BitTorrent System
	mininova	The ultimate BitTorrent source!
	Btjunkie	Btjunkie is the largest BitTorrent search engine. We store the torrent files that enable you to do
	isoHunt	The most advanced BitTorrent search engine. With cross-referenced trackers statistics for all torr

You can also click Add and upload a BitTorrent search engine plug-in to add your favorite BitTorrent search engines to the list.

FTP / HTTP

In this section, you can set the number of simultaneous connections to one FTP server, and limit the maximum download rate of each FTP task.

Setting
General Premium Account BitTorrent Torrent Search FTP / HTTP NZB RSS
FTP Download Setting Set simultaneous connections to each FTP server Max active connections:
FTP/HTTP Download Setting Max. download rate per task: 0 KB/s (0 KB/s means unlimited.)

NZB

Download Station allows you to download files via a news server. The news server information must be assigned before downloading NZB files.

The maximum connections is usually limited by your news server, you can also limit maximum connections to each NZB task by giving it a value.

Create BT/HTTP/FTP/NZB Download Tasks

This section explains how to create BitTorrent/HTTP/FTP/NZB tasks.

Download Station Keyword or URL) 😳 🕂 🚱		× 🖪		Filter	❷ ⊕ €
Download	File name	File size D 8.13 MB	Downlo 8.13 MB	Progress Uplo 100.0%	ad Downlo	Time Left
Downloading Completed Active Inactive Stopped	 (1.31_news.php (1.31_news.php<td>Unknown Unknown 11.34 KB 11.33 KB 4.05 KB</td><td>Unknown Unknown Unknown Unknown Unknown</td><td>Unknown Unknown Unknown Unknown Unknown</td><td></td><td></td>	Unknown Unknown 11.34 KB 11.33 KB 4.05 KB	Unknown Unknown Unknown Unknown Unknown	Unknown Unknown Unknown Unknown Unknown		
Dirrent Search Disconch Results SS RSS Feeds	 ED844DFB3EF4E 56189F982F6D13 5D673DB6B3808 	11.06 KB 18.60 KB 4.05 KB	Unknown Unknown Unknown	Unknown Unknown Unknown		
	K K Page 1	of 1 💙 划	C DL: 0	0.00 KB/s UL: 0.0	0 KB/s Disp) ◀ ► laying 1 - 10 of : (
BT/HTTP/FTP/NZB eN	fule					

Create by Uploading Files

You can create download tasks by uploading the following files from your local computer to Download Station:

- Torrent (.torrent) contains information for downloading files being shared over the BitTorrent network.
- NZB (.nzb) contains information for retrieving posts from news servers.
- URL (.txt) contains a list of HTTP/FTP URLs for downloading the linked files.

Task	
Destination:	home Select
Open a file:	Choose File no file selected
	(eg. download.torrent, download.nzb, urls.txt)
Show the torrent	information
	Create Close

To create download tasks by uploading files:

- 1 Click the Create button.
- 2 Click the button next to Open a file and browse to the files for upload. (If you have installed Flash Player 9 or later, you can make multiple selections.)

3 Click Create.

Note: You can upload up to 20 files at a time.

Create by Entering URLs

You can create download tasks by entering URLs.

Task		
Enter URL:		
	Authentication required	
	Username:	
	Password:	
Destination:	dl Select	
Show the torrent	nformation	
	Create	

To create download tasks by entering URLs:

- 1 Click Add.
- 2 In the window that appears, enter the URLs of the file you want to download. You can enter up to 20 URLs in the box.

Note: If you want to download a FTP folder, simply enter the FTP link with the forward slash (/) at the end of the link. All of the files and sub-directories in the folder will be downloaded.

3 If authentication is required, tick Authentication required and enter your username and password.

- 4 If you want to change your download destination, click **Select** to select another folder.
- 5 Click Create.

Create via Torrent Search

You can search for torrent files with BitTorrent search engines to help you find your favorite downloads more easily.

ኞ Download Station							🕜 🕒 🕀 🔇
Synology	8	J 💩 🗸	II Categories				
Download	File	File size	Time	Seeds 👻	Peers	Site	
All Downloads	Pc	417.00 MB	2011-02-03 08:00:00	66	101	Btjunkie	
Oownloading	syn	128.50 MB	2010-09-21 00:00:00	5	8	fenopy	
🗹 Completed	syn	69.84 MB	2010-06-29 00:00:00	2	5	fenopy	
😳 Active	syn	163.05 MB	2010-03-09 02:38:30	0	1	isoHunt	
Inactive	0722	18.82 MB	2008-09-25 03:05:32	0	1	isoHunt	
III Stopped	syn	69.83 MB	2008-09-23 00:33:42	0	1	isoHunt	
Forrent Search	>						
RSS							
🔊 RSS Feeds							
	кк	Page 1 of	1 > > C Items pe	er page: 25 🗸	•	Disp	laying 1 - 6 of

To create download tasks via torrent search:

- 1 Enter a keyword in the search field at the top-left corner of BT/HTTP/FTP/NZB, and press "Enter" on your keyboard to start searching.
- 2 Click Search on the left panel. The search result of available files will be listed in the main area.
- 3 Make your selections, and then click any of the following buttons to create download tasks:
 - Download immediately: Download the selected files to the default destination folder you specified at Setting > General. See "Default Destination Folder" on Page 157 for more information.
 - Download to: Change destination folder and modifies the torrent's URL or authentication (if required). Click Create to create the download task.

Create Download Tasks for RSS Feeds

You can use Download Station to download RSS feeds.

Download Station Synology Image: Contemporation	0 😳 🖶 🔂 🗶 🔂	000	3 🕄
Download E All Downloads	Name URL Mininova http://www.mininova.org/rss.xml	Last Updated User name 2011年2月23日 上午09時5 admin	
 Downloading Completed Active 	Synology Inc Syn http://www.synology.com/enu/ne	. 2011年2月23日 上午09時5 admin Displaying 1 -	2 of
Inactive III Stopped	RSS Feeds Download Filter Download		
Orrent Search	Name (2008.10.02) Synology® Disk Station DS508 Received t	File size Time 0 B 1970年1月1日 上午08時00分	0
RSS Feeds	(2008.09.25) Synology® NAS Servers Now Support Thr (2008.09.23) Synology® Released New Video Tutorial " (2008.09.22) Synology® Announced the Official Releas	0 B 1970年1月1日 上午08時00分 0 B 1970年1月1日 上午08時00分 0 B 1970年1月1日 上午08時00分	0
	(2008.09.11) Synology® Disk Station DS508 Received t K < Page 1 of 5 > > X C	0 B 1970年1月1日 上午08時00分 Displaying 1 - 50 c	-
BT/HTTP/FTP/NZB eMu	e]		

More Information

What is RSS?

RSS (Really Simple Syndication, also known as RSS feed) is an alternative way of web browsing. Web publishers often use RSS feeds to publish frequently-updated works, such as blog entries, news headlines, podcasts, photo albums, or audio/video clips.

Can Download Station download all kinds of RSS feeds?

RSS files on the website of BitTorrent search engines and iTunes podcasts are generally supported by Download Station.

Some download links in the RSS file are links to a web page rather than the actual file. This kind of RSS files will not be supported. To view and update their RSS feeds, you can use a RSS reader (such as Google Reader) instead.

To view and update the list of RSS feeds:

- 1 Right-click the RSS icon on a webpage to copy the URL of the RSS file.
- 2 Launch Download Station and click RSS Feeds on the left panel. You can see the file list in the main area.
- 3 Click the Add button above the file list.
- 4 In the window that appears, paste the URL into the text field and click OK. (If you tick Automatically download all items, Download Station will automatically add all RSS feeds listed in the RSS file to download tasks.) The RSS file is now added to the file list. You can rename or remove the RSS file by clicking the Rename or Remove button above the file list.

Add		
Enter RSS URL		
http://www.synology.c	om/enu/news/feed.xr	nl
Automatically downle	ad all items	
Destination:	dl	Select
		OK Close

5 Select the RSS file and view the list of its RSS feeds under the RSS Feeds tab.

Synology) 😳 🖶 📝 🗶 🔂 🛑		
Download	Name URL	Last Updated	User name
E All Downloads	Mininova http://www.mininova.org/rss.xml	2011年2月23日 上午09時5	admin
Uownloading	Synology Inc Syn http://www.synology.com/enu/ne	2011年2月23日 上午09時5	admin
Completed	K < Page 1 of 1 > > C		Displaying 1 - 2 of
🚺 Inactive	RSS Feeds Download Filter		
III Stopped	Download		
orrent Search	Name	File size Time	
🔎 Search Results	(2008.10.02) Synology® Disk Station DS508 Received t	0 B 1970年1月1	日 上午08時00分0
SS	(2008.09.25) Synology® NAS Servers Now Support Thr	0 B 1970年1月1	日 上午08時00分0
RSS Feeds	(2008.09.23) Synology® Released New Video Tutorial "	0 B 1970年1月1	日 上午08時00分0
	(2008.09.22) Synology® Announced the Official Releas	0 B 1970年1月1	日 上午08時00分0
	(2008.09.11) Synology® Disk Station DS508 Received t	0 B 1970年1月1	日 上午08時00分0
	K K Page 1 of 5 > > C	Dis	playing 1 - 50 of 2

6 Click Update above the file list to update the list of RSS feeds for the selected RSS file, or click Update All to update the lists of RSS feeds for all RSS files in the file list.

Download Station					@@@
Synology	8	-	×		

Note: Download Station automatically updates the lists of RSS feeds on a daily basis.

To create download tasks by selecting RSS feeds:

- 1 Click **RSS Feeds** on the left panel, and then select the RSS file containing feeds you want to download.
- 2 From the list of RSS feeds under the RSS Feeds tab, select the feeds you want to download.
- 3 Click the Download button below the RSS Feeds tab to create download tasks for the selected RSS feeds.

Inactive	RSS Feeds Download Filter		
11 Stopped	Download		
Torrent Search	Name	File size	Time
Search Results	(2008.10.02) Synology® Disk Station DS508 Received t	0 B	1970年1月1日 上午08時00分0
RSS	(2008.09.25) Synology® NAS Servers Now Support Thr	0 B	1970年1月1日 上午08時00分0 🎽
RSS Feeds	(2008.09.23) Synology® Released New Video Tutorial "	0 B	1970年1月1日 上午08時00分0
	(2008.09.22) Synology® Announced the Official Releas	0 B	1970年1月1日 上午08時00分0 🥥
	(2008.09.11) Synology® Disk Station DS508 Received t	0 B	1970年1月1日 上午08時00分0
	K K Page 1 of 5 > > H C		Displaying 1 - 50 of 211

To create download tasks by setting download filter:

- 1 Click **RSS Feeds** on the left panel, and then select the RSS file containing feeds you want to download.
- 2 Under the **Download Filter** tab, click Add.
- 3 In the window that appears, enter the following information and click OK to create a filter:
 - Name: The name of the filter
 - Matches: The keyword for searching RSS feeds with matching names
 - Does not match: The keyword for excluding RSS feeds with matching names
 - Destination: The destination folder for the downloaded RSS feeds

🔲 Inactive	RSS Fe	eds	Download Filter			
🔟 Stopped	Add	Add				
Torrent Search	Name	Nam	e:	rs only		ne
Search Results		Mato		RS		
ລັ RSS Feeds >			not match:	09 home	Select	
		Dest	ination:	nome	Select	
	к «	-		ОК	Close	No data
BT/HTTP/FTP/NZB eMule				UK		

- 4 You will see the new filter under the **Download Filter** tab. Click **Edit** or **Delete** if you want to edit or delete the filter.
- 5 When the list of RSS feeds is updated, Download Station will automatically create download tasks for newlyadded RSS feeds matching the criteria set in Download Filter.

Note:

- If you leave Matches and Does not match blank, Download Station will create download tasks for all newly-added RSS feeds.
- Download Filter only works for newly-added feeds. Original RSS feeds on the list can only be downloaded using the Download button below the RSS Feeds tab.

Manage BT/HTTP/FTP/NZB Download Tasks

You can check and manage the download tasks you just created.

C Keyword or URL) 🏟 🕂 🚱		🗶 🔡	🖻 🖩	-	Y Filter	
ownload	File name Great Southern	File size 8.13 MB	Downlo 8.13 MB	Progress U 100.0%	pload	Downlo	Time Left
Downloading Completed Active	<pre>③01.31_news.php ④01.31_news.php ④synology_cs407</pre>	Unknown Unknown 11.34 KB	Unknown Unknown Unknown	Unknown Unknown Unknown			
Stopped Stopped Search Search Search	 79D9D4F900DE5 5D673DB6B3808 ED844DFB3EF4E 	11.33 КВ 4.05 КВ 11.06 КВ	Unknown Unknown Unknown	Unknown Unknown Unknown			
SS RSS Feeds	 56189F982F6D13 5D673DB6B3808 	18.60 KB 4.05 KB	Unknown Unknown	Unknown Unknown)		4 ۲ (
BT/HTTP/FTP/NZB eMu		of 1 义 义	I C DL: (0.00 KB/s UL:	0.00 KB/s	Displa	aying 1 - 10 of

View BitTorrent/HTTP/FTP/NZB Tasks

Click any of the following on the left panel to view BitTorrent/HTTP/FTP/NZB tasks:

- All Downloads lists all download tasks.
- Downloading lists download tasks that are currently downloading.
- Completed lists download tasks that are completely downloaded.
- Active Downloads lists download tasks that are currently downloading or seeding.
- Inactive Downloads lists download tasks that are erroneous, waiting, or paused by you.
- Stopped lists download tasks that are paused by you.

Manage BitTorrent/HTTP/FTP/NZB Tasks

While checking BitTorrent/HTTP/FTP/NZB tasks, you can use the buttons along the top of download queue and the tabs below the queue to manage your tasks.



To pause/resume/remove download tasks:

- 1 Select the download task(s) you want to pause, resume, or remove.
- 2 Click Pause or Resume or Remove.
- To end an incomplete or erroneous download task:
- 1 Select the download task you want to end.
- 2 Click End incomplete or erroneous download tasks.
- 3 Click OK to end the task and the files will be moved to your destination shared folder.

Warning: You cannot resume/restart the task after completing this action.

To edit download tasks:

- 1 Click Edit to customize the general settings (auto stop task, maximum upload/download rate, maximum peers allowed per torrent) and tracker lists for the current task.
- 2 Click OK.

Note:

- To edit the default setting for all download tasks, refer to here.
- The maximum upload/download rates and the maximum peers allowed per torrent cannot exceed the default setting.

To clear finished download tasks:

Click Clear completed items. Downloaded files will remain in the destination shared folder.

To change the list order of download tasks:

Click on the column headings. Default ordering is by the creation date of the download tasks.



To view detailed information about a download task:

- 1 Select the download task you want to view.
- 2 Click any of the following tabs below the download queue to view detailed information of the task. (If you cannot see the tabs, click the upward triangle at the bottom right corner of Download Station.)
 - General displays general information of the download task.
 - Tracker (BitTorrent tasks only) lists servers that track other BitTorrent clients sharing the same files over the network. You can add or remove trackers by clicking Add or Remove.
 - Peers (BitTorrent tasks only) lists other BitTorrent clients sharing the same files over the network.
 - File (BitTorrent/NZB tasks only) lists files to download for the current task. For BitTorrent tasks, you can set download priority for each file or skip downloading certain files.
 - Log (NZB tasks only) records the download progress of files.

Stopped	General Original torrent:	Tracker Peers File Download original torrent		×
Search Results	Transfer			
RSS	Status:	Downloading	Transferred (UL/DL)	: 0 KB /
	Progress:	0.7%	Speed:	0.00 🖌
RSS Feeds	Peers:	883	Connected Peers:	100
	Total Pieces:	735	Downloaded Pieces:	1 U
	Seeding elapsed	:0	Seeders/Leechers:	34/0 🔺
	Start Time:	2011年2月23日 上午10時20分45秒格林感治檀港時間+08	·00 Time Left ·	1 hour
BT/HTTP/FTP/NZB eMule				

Troubleshooting

When error(s) occur, all action buttons will be disabled. You can enable the action buttons by checking for the possible errors:

- Download Station is disabled.
- The network is down.
- Download destination not set.
- Your account is disabled or removed.
- Unknown Error.
- If the problem still exists after checking the above list of possible errors, consult the Administrator.

Set up eMule

Click the **BT/HTTP/FTP/NZB** tab at the bottom of Download Station, and click the gear icon next to the search field at the top of Download Station to manage the following settings of eMule.

\varTheta Download Station		② ⊕ ⊕ ③
Synology S	😳 🕂 🕨 II 🗶 🖻 🗐	
Download	File name 🔺 File size Downlo Progress Speed Sour Status	User name
🔶 Download Queue 🔷 💙		
1 Uploading		
Connection		
Server/Kad		
Search		
Search Results	K K Page 1 of 1 > N C DL: 0.00 KB/s Items per page: 100 V	No data
	General Transfer	≷
	File name: ED2K link:	
	Hash: File size:	
	Priority: User name:	
	Destination:	
BT/HTTP/FTP/NZB eMule		
	•	11

Note: For detailed information about eMule settings, open DSM Help and then go to **Download Station** > eMule > Set up eMule.

General

In this section, you can manage the settings of ED2K server, notification, and protocol obfuscation.

To manage server settings:

- **1** Tick any of the following:
 - Automatically update server list when connected to a server or client allows you to retrieve server lists from other servers or eMule clients.
- Connect to server automatically allows Download Station to connect to ED2K server automatically.
- 2 Click OK.

Note: See "Connect to ED2K Server/Kad" on Page 169 for more information about ED2K servers.

Connection

In this section, you can set up connection for eMule downloads.

General Connection Location Bandwidth Port	
Port	
 Use the default ports 	
 Use the following ports 	
TCP Port: 4662 UDP Port: 4672	

Location

In this section, you can set the default destination folder for eMule, and share your files on the ED2K network.

ting	
General Connection Location Bandwidth	
Default Destination Folder	
Destination: home Select	
Share Share file(s) in the following folder(s): Select	
photo/天下第一帥 test	
music/maw	

To set the download destination folder for eMule:

- 1 Click Select and choose a folder.
- 2 Click Select.
- 3 Click OK.

To specify folders you want to share with other eMule clients:

- 1 Click Select and choose a folder.
- 2 Click Select.
- 3 Click OK.

Bandwidth

In this section, you can set upload and download rates and download schedule to limit download and upload bandwidths.

ting		
General	Connection Location Bandwidth	
Upload and	l download rates	
Max. upload	rate: 20 KB/s (0 KB/s means unlimited.)	
Max. downlo	bad rate: 0 KB/s (0 KB/s means unlimited.)	
Download	Schedule	
 Immedia 	tely	
Advance	d schedule	
Sched	lule Plan	

To set upload and download rates:

Enter the maximum upload and download rate for eMule downloads and uploads. ("0" means unlimited.)

To set the download schedule:

Like BT/HTTP/FTP/NZB's download schedule, eMule's download schedule is set up in the same manner. See "Download Schedule" on Page 157 for more information.

Connect to ED2K Server/Kad

Click Server/Kad on the left panel to set up Server/Kad. An ED2K server contains information about resources on the ED2K network. To search and download ED2K resources, it is necessary to connect to a server.

							00	00
Synology	0		6					
Download Download Queue Ploading	IP a	ddress	Name	Description	Port	Ping	Users 👻	Max
Connection								
Server/Kad	>							
Search Results								
	E			 	****)4 +
	K	K: Not conne	tected Kad: Not o	ms per page: 100) 🗸		٩	lo data
BT/HTTP/FTP/NZB	ule							

To add an ED2K server:

- 1 Click the Add button.
- 2 Choose any of the following:
 - Server IP: Enter the IP address and port of the server.
 - ED2K Link: Enter the ED2K link. (e.g. ed2k://|server|IP|port|/)

• Update server.met from URL: Enter the URL of the server.met file (e.g. http://www.synology.com/server.met).

3 Click Add.

To delete ED2K servers:

Select the servers from the list and click the **Delete** button.

To connect to a random ED2K server:

1 Double-click a server from the server list.

2 Wait for the server to be connected.

When the selected server is full or has an invalid IP address, the system will randomly connect to an available server.

Create eMule Download Tasks

This section explains how to create eMule download tasks.

Synology	8		+		🗙 📴					
Download		File na	me 🔺	File size	Downlo	Progress	Speed	Sour	Status	User name
🖶 Download Queue	>									
懀 Uploading										
Connection										
Server/Kad										
Search										
Search Results		ĸ	Page	1 of 1	> н с	DL: 0.00	KB/s Items	per page:	100 🗸	No data
		Gen	eral	Transfer						۲
		File na	me:			E	D2K link:			
		Hash:				F	ile size:			
		Priority	:			U	lser name:			
		Destin	ation:							
BT/HTTP/FTP/NZB eM	ule									
										11

Create by Uploading Files

You can create download tasks by uploading a text file (.txt) containing ED2K links from your local computer to Download Station:

Create		
Destination:	home	Select
Open a file:	Choose File no file select	ed
	(eg. emule.txt)	
Enter URL:		
	(eg. ed2k:// file <filenam< td=""><td>e> <filesize> <file hash=""> /)</file></filesize></td></filenam<>	e> <filesize> <file hash=""> /)</file></filesize>
		Create Close

To create download tasks by uploading a file:

- 1 Click RSS Feeds on the left panel, and then click the Create button.
- 2 Choose Open a file and click the button to browse to the text file for upload.
- 3 Click Create.

To resume an eMule download task:

- 1 Select one or more tasks in the list.
- 2 Click the Resume button. Only tasks which are not completed or paused will be resume downloading.

Create by Entering URLs

You can create download tasks by entering URLs.

Create	
Destination:	home Select
Open a file:	Choose File no file selected
	(eg. emule.txt)
Enter URL:	
	(eg. ed2k:// file <filename> <filesize> <file hash=""> /)</file></filesize></filename>
	Create Close

To create download tasks by entering URLs:

1 Click Create.

- 2 In the window that appears, choose Enter URL, and enter the URLs of the file you want to download. You can enter up to 20 URLs in the box.
- 3 Click Create.

Create via eMule Search

Click Search on the left panel to search and download the files your are looking for.

Download Station							_	0000
🔎 synology	0	Any	Global Server		P -			
Download Download Queue Uploading Connection Server/Kad Search Search Results	>	File name			File s	ize	Sources +	File Type
		K K Page 1	of 1 > >	C Ite	ms per page:	100 🗸		No data
BT/HTTP/FTP/NZB eMule	•]							
								1

Note: If you want to perform eMule search, make sure you are connected to an ED2K server at Server/Kad. See "Connect to ED2K Server/Kad" on Page 169.

To create download tasks via general search:

1 Enter a keyword in the search field at the top-left corner of eMule, select a file type and search method. Press "Enter" on your keyboard to start searching. Click Start/Stop search to stop searching.

Download Station				0000
🔎 synology	Any	-	Global Server 🗸 🔎 🧃	

- 2 The search result of available files will be listed in the main area, and might be shown in the following colors:
 - Blue: There are sufficient sources available on the network for those files.
 - Red: The file is already in the download queue or in the download destination.

Note: Files already exist in the download queue will not be added to the queue again.

3 Make your selections, and click **Download selected file(s)** to create download tasks.

To create download tasks via advanced search:

1 Click on the down arrow to the right of the Start/Stop search button.

					0 ⊕ € 0
Synology	8	Any	Global Server	₽• ↓	

- 2 In the window that appears, do the following:
 - Enter a keyword.
 - Select the file type.
 - Select the search method.
 - Enter the minimum and maximum file size for the desired files. (optional)
 - Enter the number of minimum sources. (optional)
 - Enter the file extension. (optional)
- 3 Click Start/Stop search to start searching. Click the button again to stop searching.
- 4 Make your selections, and click Download selected file(s) to create download tasks.

To clear search results:

Click Clear search results to clear the search result.

Pownload Station		⊘ ⊕⊕ ⊗
Synology	S Any Global Server V 🔎 🐺	

Manage eMule Download Tasks

You can check the download tasks you just created, and manage the tasks with eMule.

Download Station						
C Keyword or URL	🗋 🏟 🕂 🕨	🔢 🗙 🖻				
ownload	File name 🔺 🛛 File	e size Downlo	Progress Spee	d Sour	Status	User name
🖊 Download Queue	>					
懀 Uploading						
onnection						
Server/Kad						
earch						
Search Results	K K Page	1 of 1 > > (DL: 0.00 KB/s Ite	ms per page:	100 🗸	No dat
	General	ansfer				3
	File name:		ED2K link	:		
	Hash:		File size:			
	Priority:		User nam	e:		
	Destination:					
BT/HTTP/FTP/NZB eMu	e					
	1					

Manage Download Queue

Click **Download Queue** on the left panel to manage the download tasks.

To pause/resume/remove download tasks:

- 1 Select the download task(s) you want to pause, resume, or remove.
- 2 Click Pause or Resume or Remove.

	_				0000
Keyword or URL		-	×		

To view detailed information about a download task:

- 1 Select the download task you want to view.
- 2 Click the tabs below the download queue to view detailed information of the task.

	General Transfer	6	\$
	File name:	ED2K link:	
	Hash:	File size:	
	Priority:	User name:	
	Destination:		
BT/HTTP/FTP/NZB eMule			
			11

To edit download tasks:

1 Click Edit to edit the priority and change destination folder for the task.

dit	
Priority:	Auto 🗸
Destination:	/volume1/download Select
	OK Cancel

Note: To change the default destination folders for all download tasks, see "Location" on Page 168.

2 Click OK.

To clear finished download tasks:

Click Clear. Downloaded files will remain in the destination shared folder.



Check Upload Queue

Click Upload Queue on the left panel to check your shared files currently uploaded to other eMule clients.

ኞ Download Station						00000
P Keyword or URL) 🎯 🕑					
Download Download Queue	User name	File name	Transferred	Speed	Waited	Upload Time
Connection Server/Kad Search Search Results						
	K 🔇 Page	1 of 1 > >	C UL: 0.00 K	3/s Items per p	bage: 100 🗸	No data
BT/HTTP/FTP/NZB eMule						

Note: To specify folders you want to share with other eMule clients, see "Location" on Page 168.

Safeguard Your Environment with Surveillance Station

Chapter

Surveillance Station is a web-based application that can manage IP cameras to safeguard your home or office environment.

This chapter explains how to manage IP cameras, watch and record live view videos, set up scheduled recording, playback recorded events, and use all the other comprehensive features provided by Surveillance Station.

Enable Surveillance Station

Go to Main Menu > Control Panel > Surveillance Station to enable Surveillance Station.

After it is enabled, the **surveillance** shared folder will be created automatically to contain your Surveillance Station data. The shared folder is read-only and can be accessed only by **admin** or a user belonging to the **administrators** group.

Image: Control of the station of t	K Control Panel - Surveillance Sta	ation	00
Enable Surveillance Station to record videos with IP cameras over the network. ✓ Enable Surveillance Station 5 You can log in to Surveillance Station directly through a customized port. ✓ Enable customized port Port: 9900 ✓ Enable customized port (HTTPS) Port: 9901	← → ♠		?
	Enable Surveillance Station to ✓ Enable Surveillance Station You can log in to Surveillan ✓ Enable customized port Port: ✓ Enable customized port	n 5 nce Station directly through a customized port. 9900 : (HTTPS)	
	Launch Surveillance Station		
OK Cancel		OK Cancel	

To enable Surveillance Station:

1 Tick Enable Surveillance Station 5.

2 If you want to connect to Surveillance Station via a customized port, do either or both of the following:

- Tick Enable customized port and specify a customized port number.
- Tick Enable customized port (HTTPS) and specify a customized port number. Your connection to Surveillance Station via the specified port will be encrypted with the SSL/TLS mechanism.
- 3 Click OK.

To launch Surveillance Station, do any of the following:

- Click Launch Surveillance Station.
- Go to Main Menu and click Surveillance Station.
- Type Synology DiskStation's IP address or server name or domain name plus a colon and the customized port number (e.g. http://ericawang.dyndns.org:9900) in the address bar of your web browser. Press Enter (Windows) or Return (Mac) on your keyboard.

Surveillance Station will be launched in a new browser window.

Manage IP Cameras

Go to **Device** > **Camera** under **Management** to add and edit cameras, set up recording schedule, and set up the guard settings.

Live View	Timeline	Mana	gement	Surveillance Station 5		
Device	Add Delete	Edit 🔹 Guard	• Enable •	Refresh Confi	guration -	
🐉 Centralized Management	Preview	Name	IP address	Status	Used/Quota	
Event Event List Export		office	192.168.4.15	Normal	9.99 / 10 (GB)	
B Mount						
Notification						
🌽 Settings						
⊠ Email ∰≬ SMS						
System						
膨 Е-Мар						
🏟 Advanced						
🔗 Privilege						
🔑 License						
🛄 Log						
🞼 Logout						

Add a Camera

Add Camera		8
Device Info		
Name: IP address: Port: Brand: Video format: Username: Password:	B0 Please select MJPEG Test Camera	
	Previous Finish Cancel	

- 1 Click Add.
- 2 Choose Quick Setup or Complete Setup and click Next.
- 3 Edit the following Device Info settings:
 - **a** Enter a name for identifying this camera.
 - **b** Enter the camera's IP address or host name. You can also click **Search**, the system will search the IP camera installed at the same domain. Once the camera is selected, the system will automatically display the IP address, port number and model of the camera.⁵

- c Change the port number if the camera is using another port.
- d Select the camera brand from the drop-down menu.
- e Select the camera model from the drop-down menu.¹
- f Select the video channel from the drop-down menu if the camera device is a video server.
- g Select the video format from the drop-down menu.²
- **h** Select the streaming type from the drop-down menu.³
- i Enter the username and password of the camera's administrator account.
- j Click Test Camera to see if the camera can be correctly connected.
- 4 If you selected Quick Setup, click Finish to complete setup. Otherwise, click Next to edit the Video settings:
 - a Select the Image quality, Resolution, and Frame rate⁴ for recording image and live view image.
 - **b** Select the live view source from either Surveillance Station or directly from camera. Choosing live view source from the camera will mitigate the server loading and minimize the possible time delay. However, you will have to configure the camera's port forwarding to live view via Internet.
- 5 Click Next and edit the Recording settings:
 - a Choose either Motion detection by the camera or Motion detection by Surveillance Station (MJPEG only). Choosing Motion detection from the camera will mitigate server loading and minimize the possible time delay. Choosing Motion detection by Surveillance Station (MJPEG only) will provide Motion detection capability to camera models without this function built-in.
 - **b** Tick the checkbox of **Enable motion detection while in continuous recording mode** or **Enable alarm recording while in continuous recording mode** at your preference. Different events will be displayed in different colors on the event timeline.
 - c Select the time length of each saved video file under continuous recording mode.
 - d Select Pre-recording time and the Post-recording time under event recording mode.
 - e Select Enable audio when recording and choose Audio format if your camera supports the function.
- 6 Click Next and edit the following Storage Settings:
 - a Enter a name for the event archive folder that will be used to save the recorded videos.
 - **b** Enter the file name prefix that will appear in front of each file name.
 - c Tick Keep the files within (days) or Limit the archive folder up to (GB) and specify the value. Archives will be saved and deleted according to the settings.
 - d Click Estimate Required Space to evaluate the space usage.
- 7 Click Next and edit the following Schedule settings:
 - a To set a schedule plan for automatic recording, click the Continuous Recording, Motion Detection Recording, Alarm Recording(A), Motion Detection and Alarm Recording buttons, and then click or select an area on the grid.
 - **b** To select the entire day or hour in each day, click the day grid or the hour grid.

8 Click Finish to complete the setup.

Note:

- 1 If your camera model is not listed, you can select a similar model or choose User Define and enter the camera's image source path. The source path must be set correctly for the camera to obtain images. Please consult the camera's manufacturer for the camera source path.
- 2 In MPEG4 format, Surveillance Station supports audio streaming in both Live View and video recording. The audio support is only available when the IP camera is equipped with audio function.
- **3** Surveillance Station supports two streaming types, HTTP and RTSP. The actual supported streaming type depends on the camera capability.
- 4 The frame rate should be set appropriately for the best recording performance.
- **5** Only UPnP compatible cameras will be found when **Search Camera** is clicked.

ettings 🔞
Device Info Video Recording Recording Schedule
Name:officeIP address:192.168.4.15Port:80Brand:PanasonicCamera model:BL-C140Video format:MJPEGUsername:synologyPassword:•••••••Test Camera
OK Cancel

Edit Camera and Recording Settings

To edit camera settings:

- 1 Choose the camera you want to change settings, and click Edit > Settings. Or you can double-click the camera to change its settings.
- 2 Edit the settings in Device Info, Video, Recording, Storage Settings, and Recording Schedule to preference.
- 3 Click OK to save the changes.

Note: If you edit the camera settings while recording, Surveillance Station will stop recording the current video, and generate a new video according to the new settings.

To set the recording schedule:

- 1 Choose the camera you want to set the recording schedule, and click Edit > Settings.
- 2 Click Recording Schedule in the camera settings.
- 3 Click the Continuous Recording button, Motion Detection Recording button, Alarm Recording (A) button, or Motion Detection and Alarm Recording buttons, then click the grid. To select the entire day or hour in each day, click the day grid or the hour grid.
- 4 If you want to cancel selection, click the eraser icon (Delete) and click the grid you want to cancel selection.
- 5 Click OK to save the changes.

To edit motion detection settings:

- 1 Select the camera you want to change settings, and click Edit.
- 2 Select Motion Detection from the drop down menu.
- **3** You can live view the camera from the screen on the Motion Detection window. The bar next to the screen shows motion detection status. Green means normal and Red means an event is triggered.
- 4 Choose either Motion detection by the camera or Motion detection by Surveillance Station (MJPEG only).
- 5 If you select Motion detection by the camera, enter the value of Detection sensitivity, Threshold, Object size, and Trigger percentage (subject to camera's capability). The value percentage range is 1 to 99(%)¹.
- 6 If you select Motion detection by Surveillance Station, enter the value of Detection sensitivity value and Threshold. The value percentage range is 1 to 99(%)¹.
- 7 Click Detection Area to define the detection area.
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8 Click Apply and Yes to apply the settings into camera or Surveillance Station. You can preview the changes in the screen on the right.

9 Click Close to finish.

Note:

- 1 The level of sensitivity determines whether a camera is quick to respond to slight motion and start recording. You can reach this by setting a high value for detection sensitivity, and a low value on threshold, object size, and trigger percentage.
- 2 For IP cameras with the video format of MPEG4, if you want to schedule Motion Detection Recording, you can only choose Motion detection by the camera to define the motion detection area.
- 3 You can setup maximum 10 detection areas.

To edit the guard settings:

- 1 Select the camera you want to edit, click Guard, and choose Settings from the drop-down menu for manual setup. You can also click Guard and choose Wizard from the drop-down menu to quickly set the guard schedule..
- 2 To setup preset position manually:
 - a In Preset Position tab, click Add.
 - **b** Name the preset position.
 - c Adjust the camera's focus by using the PTZ panel.
 - d Click Save to save the preset position settings.
- 3 To setup patrol among several preset positions:
 - a In Patrol tab, click Add on the left section.
 - b Name the patrol.
 - c In the Preset positions list, click Add to add preset positions into patrol. Adjust the preset positions' sequence by clicking Up or Down.
 - d Select interval to indicate the time a camera should stay on each preset position.
 - e Click Preview to preview patrol.
 - f Click Save to save the settings or click Reset to clear the settings.
- 4 To setup guard by scheduling the patrols:
 - a In Guard tab, select the patrol from the drop-down menu.
 - b Select the trigger event among Continuous, Motion Detection, Alarm, or Motion Detection and Alarm.
 - **c** Set up the action plan by selecting the patrol items and Loops per cycle. If you choose Continuous mode in the previous step, select the interval between each cycle.
 - **d** Click or drag a time range on the schedule grid. To select the entire day or hour in each day, click the day grid or the hour grid.
 - e Repeat the steps to add other patrol settings onto the schedule.
 - f If you want to cancel selection, click Delete and click the grid you want to cancel selection.
 - g Click Save to save the changes. Or you can click Reset to clear all settings.
 - h Click Close.
 - i You can also click Guard and choose Wizard from the drop-down menu to quickly set the guard schedule.

Note: Preset position, patrol, and guard are only available to cameras that support the functions.

To remove cameras:

Choose the cameras you want to remove (press and hold Shift or Ctrl while making multiple selections), and click **Delete**.

Note: Removing cameras will remove both the camera settings and recorded videos.

To disable cameras:

Choose the cameras you want to disable (press and hold Shift or Ctrl while making multiple selections), and click **Disable** in the **Enable** drop-down menu. Doing so will not delete the camera settings and recorded videos.

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To enable cameras:

Choose the cameras you want to enable (press and hold Shift or Ctrl while making multiple selections), and click **Enable** in the **Enable** drop-down menu.

Export or Import Camera Configuration

You can export cameras' settings to a configuration folder, and import the configuration at a later time. Not only can this function back up all your camera settings, it can also help you transfer the settings to other Surveillance Station quickly and easily.

Configuration Export Wi	zard		8
Create camera configura	ation		
Name your configuration	n.		
Name:	home		
Select a destination to	save the configuration file.		
Destination:	test	•	
			Next Cancel

To export camera configuration:

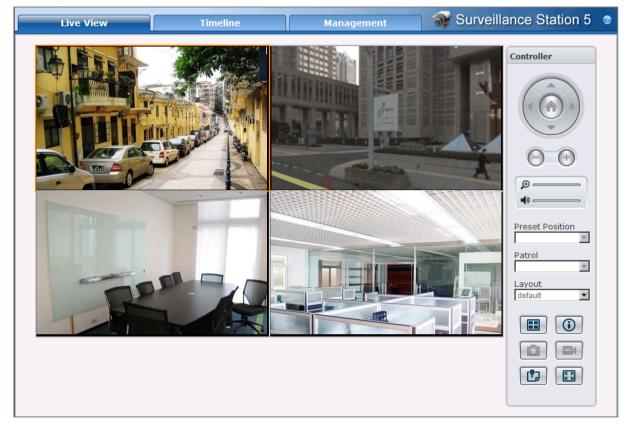
- 1 Choose Export from the Configuration drop-down menu to open the Configuration Export Wizard.
- 2 Name the configuration, select a destination shared folder to save the configuration, and click Next.
- 3 Select the camera(s) whose settings you want to export, and click Finish to finish the export.

To import camera configuration:

- 1 Choose Import from the Configuration drop-down menu to open the Configuration Import Wizard.
- 2 Select a source shared folder containing the configuration, choose a configuration from the Name drop-down menu, and click Next.
- 3 Select the camera(s) whose settings you want to import, and click Finish to finish the import.

Watch Live View

The Live View page displays real-time videos of all configured cameras. With Surveillance Station, you can perform various functions, from the basic PTZ (Pan/Tilt/Zoom) and snapshot features to the e-map and manual recording functions.



Layout Configuration		0
Layout list	Name:	default Set as default Synology Strate at action
default Default	E-Map: Layout Type Server: Loca Soffice	e demo2 (Camera delet e
		Save Reset Close

Configure Layout

The administrator can configure layout setting using Internet Explorer. To customize how the live view will be displayed, click on **Configure** and follow the steps below:

- 1 Add a new layout or click on an existing layout to edit.
- 2 Enter a layout name.
- 3 Select the corresponding E-Map. If you select None, the E-Map button will be disabled.

Note: For more information about E-map, see "Use E-Map" on Page 192.

- 4 Select a type of layout. If you have selected sequential layout, You can adjust the speed of camera rotation at the Interval drop-down menu.
- 5 Drag cameras from the camera list to the preferred layout position, or drag cameras back to the camera list to remove them from the layout.
- 6 If you have added clients in Centralized Management, you can add cameras from your local DiskStation or from other sources by selecting options from Server.
- 7 To see a snapshot of the current layout, click **Preview**. If you would like to set the current layout as the default page when you enter live view, check **Set as default**. Finally, click **Save**.
- 8 To delete an unwanted layout, select from the layout list and click Delete.
- 9 Click Close when finished.

Use PTZ Control

If your camera has PTZ (pan/tilt/zoom) support, you can select a camera and use the **Controller** panel to adjust the camera's direction. Clicking on the home button will restore the camera back to its original position. If you have selected a camera with partial PTZ support, the unsupported functions on the **Controller** panel will be grayed out.



Note:

- 1 Depending on the performance of your video card, the live view may not display if the video resolution exceeds the supported range. Changing the Video Output Module from DirectX to OpenGL at System > Advanced under Management can sometimes solve the problem.
- 2 To watch live view of Surveillance Station via internet, please make sure that you have set up proper port forwarding for MPEG4 streaming ports on your NAS server. Refer to System > Advanced under Management for the range of MPEG4 streaming ports.
- 3 Audio output requires the following audio format: G.711, G.726, AAC, and PCM.

Use Other Functions

On the Live View page, you can also use the following functions.



- 1 To digitally zoom in and out, drag the zoom bar or place the mouse over the live view of a selected camera and then scroll the mouse. You can also zoom digitally by using the scroll button on your mouse, and move by dragging the picture.
- 2 To adjust volume, drag the volume bar.
- 3 To see the corresponding preset or patrol, click on the Preset Position or Patrol list.
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- 4 Click on Show information, and the status for each camera will be displayed on the corner of each live view window.
- 5 To save the current image, click on the Snapshot button.
- 6 To start manual recording, click on the Manual Recording button.
- 7 To see the corresponding E-Map, click the E-Map button.
- 8 To see the live view in full screen mode, click the Full Screen button.

Note: Non-Internet Explorer browsers support limited functions only.

Play and Manage Events

Under the **Management** tab, you can go to **Event** > **Event List** to browse all recorded events, play them with the Event Player¹, and delete or download the video files.

Live View	Timeline		Manage	ement	🔊 Sur	veillance S	Station 5	3
Device	Event List							
🙆 Camera	Play Dow	nload	Delete - Lock	ced 🔹 💽 Stop	p Recording	Refresh	filter	
😹 Centralized Management	Camera	Mode	Start Time	Time	Size	Video format	Locked	
Event	office		2011-01-30 1	00:00:12	1.28 MB	MJPEG	No	ŕ
Event List >	office		2011-01-30 1	00:00:13	1.34 MB	MJPEG	No	
🍙 Mount	office		2011-01-30 1	00:00:15	1.63 MB	MJPEG	No	
Notification	office		2011-01-30 1	00:00:12	1.39 MB	MJPEG	No	
🖂 Email	office		2011-01-30 1	00:00:10	1.13 MB	MJPEG	No	
🗐 MS	office		2011-01-30 1	00:00:11	1.19 MB	MJPEG	No	
System E-Map	office		2011-01-30 1	00:00:09	1.07 MB	MJPEG	No	
Advanced Privilege	office		2011-01-30 1	00:00:19	2.03 MB	MJPEG	No	
🔑 License	office		2011-01-30 1	00:00:10	1.08 MB	MJPEG	No	
🛄 Log 🎼 Logout	office		2011-01-30 1	00:00:22	2.4 MB	MJPEG	No	
	office		2011-01-30 1	00:00:10	1.15 MB	MJPEG	No	
	office		2011-01-30 1	00:00:12	1.33 MB	MJPEG	No	
	office		2011-01-30 1	00:00:10	1.11 MB	MJPEG	No	
	K K Page	1 of 59	> > С			Displayir	ng 1 - 100 of 5	837

About Events

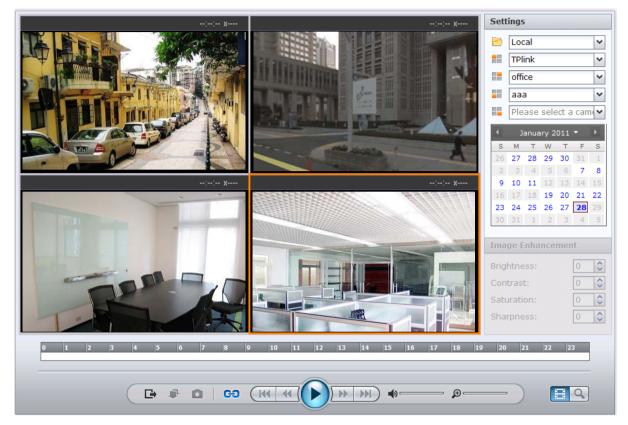
All recorded events will be here. The events are displayed with the latest ones on top. The images displayed under **Mode** correspond with the type of recording the event was filmed under.

- The gray icon represents Continuous Recording
- The blue icon represents Manual Recording
- The green icon represents Motion Detection Recording
- The orange icon represents Alarm Recording
- The green/orange icon represents Motion Detection and Alarm Recording

Note: Your IP camera must support alarm recording to be able to use Alarm Recording. Alarm recording often relates to the IP camera's digital input and output pin, or DIDO. Refer to its datasheet for pin configuration detail. Alarm recording will begin when the IP camera detects an input pin is triggered.

Play Events with Timeline

Click the **Timeline** tab to see the timeline page, which offers the Multiple-Event Playback function[•] allowing you to simultaneously watch events recorded on one day or at the same time by different cameras. All event videos are lined up in the timeline. You can easily find the event you are looking by clicking a specific time on this day or during the hour, and play it with the event player on this page.



In the timeline, events recorded in **Continuous Recording** mode will be displayed in gray, **Motion Detection Recording** mode will be displayed in green, and **Alarm Recording** mode will be displayed in orange.

You can click **Day** or **Hour** on the right side of the timeline to easily find an event recorded on this day or during the hour.

To select an event source:

If you have added clients in **Centralized Management**, or have mounted exported archives, you can play the events from your local DiskStation or from other sources.

To find events on the timeline:

- 1 On the **Controller** panel, click the **Sync mode** or **Non-sync mode** button to switch between sync or non-sync playback.
 - Sync: Allows you to play multiple events recorded at the same time.
 - Non-sync: Allows you to play multiple events on the same day sequentially without waiting.
- 2 On the Settings panel, do the following:
 - a Choose Local to play events from your local DiskStation, or choose other sources to browse their events.
 - **b** Click the calendar icon to specify the date².
 - c Choose individual cameras from the four camera drop-down menus².
- 3 Move the cursor icon to where you want to start watching the events. You can click Day or Hour to display the timeline within 24 hours or within 1 hour.

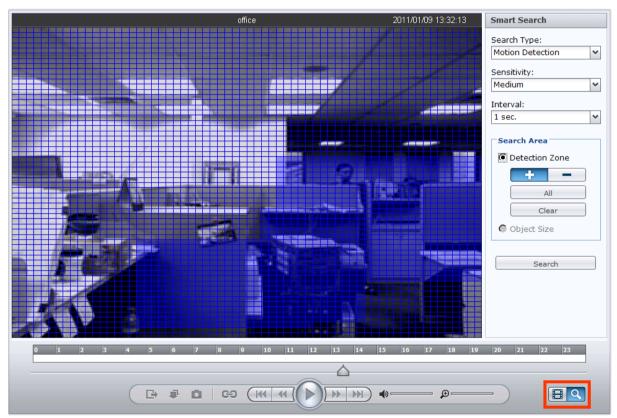
To play, download, export events, or take snapshots:

1 Click the Play button on the Controller panel start playing the events.

- 2 In the non-sync mode, click the Previous button or Next button on the Controller panel to go to the previous or next event.
- **3** To take a snapshot, you can pause the player, and then click the **Snapshot** button to save the image.
- 4 Drag the digital zoom slider on the **Controller** panel to zoom in or out digitally. Dragging to the left end will return to the normal zoom level, while dragging to the right will zoom in digitally. You can also zoom digitally by using the scroll button on your mouse, and move by dragging the picture.
- 5 Adjust the volume by dragging the slider bar on the Controller panel if the selected event has audio support.
- 6 Click Download to download the selected event.
- 7 Click Export to export all events recorded on the day by the selected camera.

Search for Specific Situations with Smart Search

With Smart Search, you can search events for specific situations such as general movement or missing/foreign objects on the screen. If the camera lens was occluded or lost its focus by people trying to avoid surveillance, Smart Search can also help you find out when the situations happened.



To use smart search:

- 1 Follow the steps of "Play Events with Timeline" on Page 186 to find and play events.
- 2 Click any of 4 screens with an event playing right now.
- 3 Click the Smart Search button at the bottom-right corner. The Settings panel on the right should be changed to the Smart Search panel now.
- 4 Do the following to specify Smart Search options:
 - **a** Choose a search type from the Search Type drop-down menu:
 - Motion Detection: Search for the time points when there are any movements in the specified areas.
 - Missing Object: Search for the time points when objects in the specified areas are missing.
 - Foreign Object: Search for the time points when foreign objects appear at the specific areas.
 - Camera Occlusion: Search for the time points when the camera lens is covered and unable to effectively
 monitor the environment.

- Focus Lost: Search for the time points when the camera focus is lost and unable to effectively monitor the environment.
- **b** Choose a sensitivity level from the **Sensitivity** drop-down menu.
- **c** Choose a search interval from the **Interval** drop-down menu:
 - All Frames: Perform frame-by-frame search.
 - 1 to 10 (in seconds): Perform search at the specified time interval.
- d Choose a type of Search Area (not available for Camera Occlusion and Focus Lost):
 - Detection Zone: Drag on the grid to add search areas. Click Add or Delete and drag on the grid to add or remove any search areas. Click All to search all areas, or click Clear to clear all search areas.
 - Object Size (not available for Motion Detection and Missing Object): Drag to resize and reposition the yellow rectangle which is smaller than the object you want to search.
- 5 Click Search to start searching, or click Pause to pause the search and continue at a later time.
- **6** When the search for the day's events is complete, follow the onscreen instruction to continue searching the next day's events or stop the search.
- 7 When the search is complete or paused, click any of the time points listed in the Search Result section to view the searched situation.
- 8 Click the Timeline button at the bottom-right corner to exit the Smart Search panel.

View Events with Image Enhancements

When you are playing events or using Smart Search, you can enhance the image to make its details stand out more clearly.

Image Enhancement		
Brightness:	0 🗘	
Contrast:	0 🗘	
Saturation:	0 🗘	
Sharpness:	0 🗘	

To view events with Image Enhancements:

- 1 Follow the steps of "Play Events with Timeline" on Page 186 to find and play events.
- 2 Click any of 4 screens with an event playing right now.
- 3 Enhance the image by changing any of the following values:
 - Brightness
 - Contrast
 - Saturation
 - Sharpness

Note: Smart Search and Image Enhancements are supported on IE only.

Edit Events

Go to Event > Event List under Management to edit your events.



To play an event with the Event Player:

Choose the event you want to play, and click **Play**. Or you can double-click the event to activate the **Event Player**.

More Information

After the Event Player is opened, you can take the following operations:

- Click the Play button on Event Player's Controller panel to play the event.
- To go to the previous or next event, click the **Previous** button or **Next** button on the **Controller** panel.
- To take a snapshot, you can Pause the current event, click the Previous frame or Next frame button on the Controller panel, then click the Snapshot button² to save the image.
- To adjust the volume, drag the slider bar² on the **Controller** panel. The far left of the bar is the minimum volume, while the far right is the maximum volume.
- Drag the digital zoom slider² on the Controller panel to zoom in or out digitally. Dragging to the left end will
 return to the normal zoom level, while dragging to the right will zoom in digitally. You can also zoom digitally
 by using the scroll button on your mouse, and move by dragging the picture.
- Click the Stop button to stop playing the event.
- Click the Time Slicing button to slice the video into 4 segments, which will be played simultaneously. This
 function is only available when the video length is longer than 1 minute.
- Click the Duration / Timestamp button to switch between displaying the length of the video and displaying the time when the video is recorded.

To lock events:

Choose the event(s) you want to unlock³, and click No in the Locked drop down menu.

You can lock the events to avoid them being deleted by the archive rotation mechanism or the delete button. To lock events, choose the event(s) you want to lock³, and click **Yes** in the **Locked** drop down list.

To download an event:

To download the video clip of an event, choose the event you want to download. Click **Download** and choose the saving destination. The video clip will be saved in .avi or .mp4 format.

To stop recording immediately

To stop the current event recording immediately, choose the current recording event and click Stop Recording.

To filter events:

You can click the **Filter** button, and then specify the criteria to find specific events you want to watch. If you have added any client server at **System** > **Advanced** > **Centralized Management**, or if you have used the **Mount** function to mount events onto your Surveillance Station, you can use the **Source** drop-down menu to play events recorded by any other DiskStation.

To delete selected events:

- 1 Choose the event(s) you want to delete³, and choose **Delete > Delete selected**.
- 2 Click Yes to confirm the deletion.

To delete all events:

- 1 Choose **Delete** > **Delete** all.
- 2 Click Yes to confirm the deletion.

To delete filtered events:

- 1 See the To filter events section above for more information about how to filter events.
- 2 After you've performed event filter, click Delete > Delete filtered to delete the events listed in the filter result.
- 3 Click Yes to confirm the deletion.

To delete events listed on the current page:

- 1 Choose Delete > Delete this page.
- 2 Click Yes to confirm the deletion.

Note:

- 1 MPEG4 format can only be played by Internet Explorer.
- 2 Supported on Internet Explorer only.
- 3 You can press "Ctrl" or "Shift" for multiple selections.
- 4 Your IP camera must support alarm recording to be able to use this function. Alarm recording often relates to the IP camera's digital input and output pin. When the IP camera is triggered by an input signal, it will send a signal to DiskStation to begin alarm recording. Refer to the IP camera's datasheet for pin configuration detail and how to setup its input pin sensor.

Export Events

Go to Event > Export under Management to export the events. You can export events from Surveillance Station to any shared folder or to an external storage device via USB or eSATA interface.

Live View	Timeline	Manag	gement	💓 Surveilla	ance Station 5	3
Device Camera	Export Add Delete	Refresh				
🐉 Centralized Management	Archive	Start date/time	Stop date/time	Destination	Status	
lisualStation	tt	2010-01-19 00:00	2010-01-26 00:00	video	Finished	
Event						
Event List						
Export	>					
🕝 Mount						

By specifying the camera and time frame, the events within the range will be exported as an archive.

To export an archive:

- 1 Click Add.
- 2 Name the archive and select a destination. Click Next.
- 3 Select the cameras which events are to be exported. Click Next.
- 4 Select the date and time range of the events to be exported. Click Finish to export.

To delete an archive:

Choose the archives you want to remove, and click **Delete**. (Press and hold Shift or Ctrl while making multiple selections.)

This action will only remove the archive from the list. The original event files and the exported archives will not be deleted.

Mount Events

Go to Event > Mount under Management to mount exported events. You can mount exported archives onto Surveillance Station. The events in the mounted archive can be played in Event Management and Timeline page.

Live View	Timeline	Management			Surveillance Station 5	3
Device @ Camera	Mount Add Delete	Enable •	Refresh	1		
😹 Centralized Management	Name	Start date/time	Stop date/time	Status	Cameras	
Event						
🔄 Event List						
🗟 Export						
😮 Mount	>					

To mount an archive:

- 1 Click Add.
- 2 Select a source from the Source drop-down menu.

The source can be any shared folder or an external storage device via USB or eSATA interface.

3 The system will list out all the exported archives stored in the source. Select the archives, click OK to mount.

Note: The same archive cannot be mounted twice.

To delete a mounted archive:

Choose the archives you want to remove, and click **Delete**. (Press and hold Shift or Ctrl while making multiple selections.)

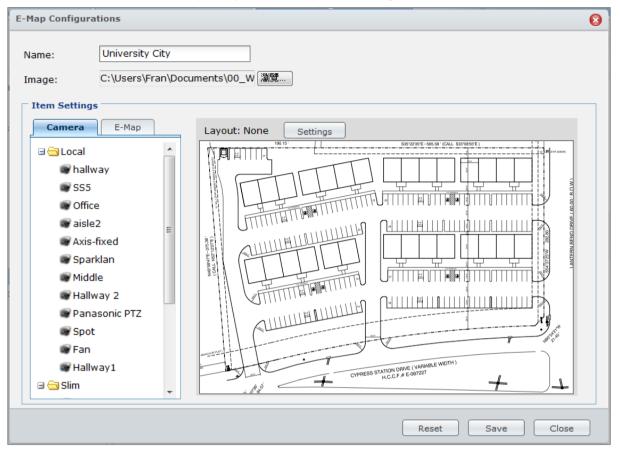
This action will only remove the archive from the list. The original event files and the exported archives will not be deleted.

To enable/disable mounted archives:

- 1 Select the archive you would like to enable/disable. (Press and hold Shift or Ctrl while making multiple selections.)
- 2 Click on the Enable button on the top of the page.
- 3 Select Enable or Disable.

Note: The Source drop-down menu in Management and Timeline page will not display disabled archives.

Use E-Map



You can add, edit, and delete E-Maps at System > E-Map under Management.

To add an E-Map:

- 1 Click Add.
- 2 Name the E-Map.
- 3 Click Browse to locate the image file and upload the file.
- 4 The image will be displayed in the Items Settings area when the transmission is complete.
- 5 Click Settings next to Layout. In the window that appears, Tick the layout(s) where you want to apply the E-Map, and then click OK.
- 6 On the uploaded E-Map image, you can arrange camera positions, or add other E-Maps links:
 - From the Camera or E-Map tab, drag the items you would like to place onto the uploaded image. Doubleclick any camera on the map to change its direction.
 - To remove any item, drag the item out of the E-Map. The removed item will return to Camera or E-Map list.
- 7 Click Save to save the changes. To undo all setting modifications, click Reset.
- 8 Click Close to close the E-Map Configurations window.

To edit E-Map settings:

- 1 Select the E-Map you want to edit, and click Edit. Or you can double-click on the E-Map to open the E-Map Configurations window.
- 2 Modify the name, re-upload the image, and arrange items to update the settings.
- 3 Click Save to save the changes.
- 4 Click Close to close the E-Map Configurations window.

To remove E-Maps:

Select the E-Maps you want to remove, and click Delete.

Note:

- The recommended image dimension is 480 x 320. Any Image with larger dimension will be resized to fit in the dimension, with its aspect ratio maintained.
- Supported image formats: BMP, JPG, JPEG, GIF, PNG

Receive Email or SMS Notification

You can set up email or SMS notification in order for Surveillance Station to send you a system notification by email or by SMS messages. You can decide which types of event to be notified at **Notifications > Settings** under **Management**.

Live View	Timeline	Management	Surveillance Station 5
Device @ Camera & Centralized Management	Email Save Refresh		
Sugart	Enable email notification		
Event E Event List Export Mount	Apply the notification set Apply the following email SMTP server:		
Notification	SMTP port:	25 secure connection (SSL)	
Email	> Authentication require	ed	
System	Username: Password:		
N E-Map 🔅 Advanced 🝰 Privilege	Confirm password: Primary email:		
🔑 License 🛄 Log	Secondary email:		
	Send a test mail		

Note: For more information about setting up Email or SMS notification, go to **Notification** > **Email** or **SMS** under **Management** and see their help pages by clicking the **Help** button (with a question mark) at the top-right corner.

Manage Advanced Settings

Go to System > Advanced under Management to manage the advanced settings for Surveillance Station.

Live View	Timeline Management	Surveillance Station 5 @
Live View	Timeline Management Advanced Save Save Refresh Initial Page Setting Go to this page after Iogon: Centralized Management Image: Setting Camera Image: Setting Image: Setting Image: Setting Setting Image: Setting Image: Setting Setting Image: Setting Image: Setting Image: Setting <td< td=""><td>Surveillance Station 5</td></td<>	Surveillance Station 5
	OpenGL	

Initial Page Setting¹

You can choose from the drop-down menu to set the initial page after logging in to Surveillance Station.

Centralized Management¹

Centralized management allows a host server to see the live view and recorded events of other clients through Live View or Event Playback page.

To set your DiskStation as a client:

Tick Enable centralized management, choose Be a client, and then enter an Authentication key and confirm the key in the Confirm authentication key field.

The host server will be required to enter the correct key to log in and watch the live views and recorded events on your DiskStation.

To set your DiskStation as a host server:

- 1 Tick Enable centralized management and then choose Be a host server.
- 2 Go to Device > Centralized Management and click Add.

3 Name your client, enter its IP address, port number, and authentication key (5000 by default), and then click **Test Client**.

Add client		
Add		
Name: IP address: Port: Authentication key:	Test Client	Search

4 If the values are correct, a dialog will appear to tell you the connection is successful. Click OK to close the dialog.

Now you can see the live view and recorded events of the client through Live View or Event Playback page

VisualStation¹

Tick **Enable VisualStation** to manage the VisualStation with your DiskStation. With VisualStation, you can see the live view of the cameras on a TV set or LCD monitor directly without using a computer. A VisualStation can only be managed by a DiskStation within the same LAN.

MPEG4 Streaming Port Range²

- **1** The default port range for MPEG4 video streaming is 55736-55863. You can set it from 1025 to 65535, excluding the following numbers:
 - 3306, 3689, 5335, 5432, 7000, 7001, 8080, 8081, 9997, 9998, 9999, 50001, 50002, 55536-55663, 6881-6890.
- **2** The port range must include sufficient number of ports for MPEG4 video streaming, and can include up to 128 ports.

Video Output Module

When DirectX is set as the video output module, live view or events might not display correctly with some computers due to video card performance. This problem may be fixed by using OpenGL instead.

Note:

- 1 Only editable by the admin.
- 2 After the port range is modified, all live views will be interrupted and reactivated.

View Log

Go to System > Log under Management to see critical events such as camera disconnection or changes on the camera settings. You can view the logs and manually delete/save the log for further use.

Live View	Timeline	Management	Surveillance Station 5
Device	Log		
🙆 Camera	Clear Save R	efresh Filter	
😹 Centralized Management	Type Date & Time 👻	Event	
🔙 VisualStation	0 2010/09/09 11:0	Connection to camera [Axis-fixed] wa	as recovered.
Event	0 2010/09/09 11:0	Recordings of camera [Spot] reached	size limit. [16] events was deleted.
🗐 Event List	2010/09/09 10:5	Connection to camera [Axis-fixed] wa	as lost.
k Export	0 2010/09/09 10:3	Connection to camera [Hallway1] wa	s recovered.
🐵 Mount	2010/09/09 10:3	Connection to camera [Hallway1] was	s lost.
Notification	0 2010/09/09 10:0	Recordings of camera [Spot] reached	size limit. [27] events was deleted.
Settings	0 2010/09/09 09:0	Recordings of camera [Spot] reached	size limit. [2] events was deleted.
Email	0 2010/09/09 07:0	Recordings of camera [Spot] reached	size limit. [2] events was deleted.
In SMS	0 2010/09/09 06:0	Recordings of camera [Spot] reached	size limit. [1] events was deleted.
Suctor	0 2010/09/09 05:0	Recordings of camera [Spot] reached	size limit. [1] events was deleted.
System	0 2010/09/09 02:0	Recordings of camera [Spot] reached	size limit. [17] events was deleted.
E-Map	0 2010/09/09 01:0	Recordings of camera [Spot] reached	size limit. [35] events was deleted.
Auvanceu 🍰 Privilege	2010/09/09 00:0	Recordings of camera [Spot] reached	size limit. [177] events was deleted.
License	2010/09/09 00:0	Recordings of camera [SS5] reached	date limit. [2] events was deleted.
Log	> () 2010/09/08 23:0	Recordings of camera [Spot] reached	size limit. [214] events was deleted.
	2010/09/08 22.0	Recordings of camera [Spot] reacher	size limit [238] events was deleted

To delete the log:

- 1 Click the Clear button.
- 2 Click Yes to finish.

To save the log:

- 1 Click the Save button.
- 2 In the prompt window, select whether to open the exported log or to save the file.
- 3 Click Save to finish.

Note: The maximum size for the logs is 64KB. When the size reaches its limit, the system will automatically delete the oldest log in order to make more space for newer logs.

To filter the log:

- 1 Click the Filter button.
- 2 In the dialog that appears, specify the criteria to find specific log you want to watch.
- 3 Click OK.

Assign Privilege

Go to System > Privilege under Management to assign the privileges for Synology DiskStation users. Admin has full authority on Surveillance Station and can assign different privileges to local users on DiskStation. Manager can manage all functions except license management. Spectator can only watch live view and event playback but cannot edit camera settings.

Live View	Timeline	Mar	agement	Surveillance Station 5	3
Device	Privilege Autho	rized Cameras	Refresh		
🕑 Camera		(
Centralized Management	Account	Privilege	Authorized Cameras	-	
🖏 VisualStation	Rosiel	Manager	[Local] hallway, SS	35, Office, aisle2, Axis-fixed, Sparklan, Middle, Hall	
Event					
🔄 Event List					
Export					
🚱 Mount					
Notification					
🌽 Settings					
🖂 Email					
📑 🛛 SMS					
System					
膨 E-Map					
🔅 Advanced					
📌 Privilege 💦					
🔑 License					
Loa					

To change users' privilege:

- 1 Select the accounts you want to manage. (Press and hold Shift or Ctrl while making multiple selections.)
- 2 Click Privilege and select Manager or Spectator according to your need.

To authorize cameras:

- 1 Select the accounts you want to manage. (Press and hold Shift or Ctrl while making multiple selections.)
- 2 Click Authorized Cameras.
- 3 Tick the checkbox to authorize camera.
- 4 Click OK.

Note: Admin should first assign the privileges to the users who can access Surveillance Station at Main Menu > Control Panel > Application Privileges of the DSM management UI. Afterward Admin can change their login privilege.

About Camera License

Go to **System** > **License** under **Management** to manage camera license. Each DiskStation comes with one camera license. For DiskStation models that support multiple cameras, you can purchase **Synology Camera License Packs** to install additional cameras.

Live View	Timeline	Management	Surveillance Station 5 @
Device	License		
Camera Cam	Add Delete F	Refresh	
🐉 Centralized Management		License Key	License Number(s)
lisualStation		Default License	1
Event			
🔄 Event List			
k Export			
🕝 Mount			
Notification			
Settings			
🖂 Email			
≣∜ SMS			
System			
膨 Е-Мар			
🌼 Advanced			
🔗 Privilege			
License	>		
	4		

To install a camera license:

- 1 Click Add.
- 2 Select Agree if you have read and agreed with the Terms and Conditions.
- 3 Enter the license key of your purchased license.
- 4 Click OK.

To delete camera licenses:

- 1 Choose the license you want to delete, and click Delete.
- 2 Click OK in the prompt dialogue window.

Note:

- One camera license is provided and installed by default for you to use Surveillance Station. It is not possible to delete the default license.
- Unlike the supported camera number, there is no limit on the number of installed camera licenses. For the supported camera number, see "Appendix A: Synology DiskStation Specifications" on Page 219.

Use VisualStation

Go to System > Advanced under Management and tick Enable VisualStation to manage VisualStation from Synology DiskStation. With VisualStation, you can see the live view of the cameras on a TV set or LCD monitor directly without using a computer. A VisualStation can only be managed by a DiskStation within LAN. After VisualStation support is enabled, you can add a VisualStation within LAN and manage its settings.

Live View	Timeline	Management	🗾 ຈັງ Sເ	urveillance S	Station 5
Device @ Camera	VisualStation Add Delete Edited	dit Enable TInfo	ormation Refresh		
😹 Centralized Management	Name IP addr	ess MAC address	Version Model	Lock	Status
🖵 VisualStation	> VS60 - 測試機 192.168.3	5.22 00:11:32:05:7	1.1-0116 VS60	Unlocked	Occupied
Event					

To add a VisualStation:

- 1 Click on the Add button.
- 2 The search result will show all the VisualStations within the network. Select the VisualStation that you would like to pair. Make sure the status of the VisualStation is **Unlocked**.
- 3 Click on Next to continue to Network Settings.
 - Create a name for the VisualStation.
 - Define LAN configuration.
- 4 Click on Next to continue to Camera Settings.
 - Select VisualStation's channel layout. The selected setting will be reflected on the preview area below.
 - All the cameras added on the Surveillance Station are also listed on this page. Select the camera you would like to show on VisualStation, and drag to the preview area.
- 5 Click on Finish to save the settings.
- 6 Press and hold the Lock button on the VisualStation unit for 3 seconds. The LED light will glow solid green when its status is changed to Locked.

To edit the settings of a VisualStation:

- 1 Select the VisualStation you would like to edit. Double click on it or click on Edit to proceed.
- 2 Edit the corresponding settings.
- 3 Click on Save to finish.

To enable/disable a VisualStation:

- 1 Select the VisualStation you would like to enable/disable.
- 2 Click on the Enable button on the top of the page.
- 3 Select Enable or Disable.

Note: Disabling VisualStation will not delete its settings.

To delete a VisualStation:

- 1 Select the VisualStation you would like to delete.
- 2 Click on the Delete button on the top of the page.
- 3 Click on Yes to finish.

To restore VisualStation to factory default:

1 Press and hold the **RESET** button at the back of the VisualStation until you hear a beep.

2 The status of the VisualStation will appear as Reset on the VisualStation list.

To pair the VisualStation with the DiskStation again, you need to delete the entry from the list and add it again. Follow the delete steps and continue with the add process.

Manage Media Server and iTunes Service

Synology DiskStation can become a multimedia server on the local area network, allowing computers (using Windows Media Player or iTunes) and DLNA/UPnP home devices (such as stereo system or TV set) to play its multimedia contents.

This chapter explains how to stream multimedia contents from Synology DiskStation to your computer or other DLNA/UPnP home devices.

Manage DLNA Media Server

Go to Main Menu > Control Panel > Media Server to enable DLNA/UPnP media server. After it is enabled, users can browse the multimedia contents on Synology DiskStation with a DLNA/UPnP home device, also known as Digital Media Adapter (DMA).

🔏 Control Panel - Media Server		00
< → ♠		?
Media Server Browsing Settings	DMA Compatibility	
Enable DLNA/UPnP media server Enable DLNA/UPnP support to browse r	multimedia files with a DLNA/UPnP DMA.	
DMA menu language:	English 👻	
DMA menu style:	Simple style Customize	
Diagnose Re-index		
	OK Cancel	

The following shared folders will be accessed by DMA Devices:

- photo
- video
- music

Note: You can play the following multimedia file formats on Synology DiskStation with DLNA/UPnP enabled DMA:

- Audio: AAC, FLAC, M4A, MP3, Ogg Vorbis, PCM, WAV, WMA, WMA VBR, WMA PRO, WMA Lossless
- Image: BMP, JPG (jpe, jpeg), GIF, ICO, PNG, PSD, TIF (tiff), UFO, RAW (arw, srf, sr2, dcr, k25, kdc, cr2, crw, nef, mrw, ptx, pef, raf, 3fr, erf, mef, mos, orf, rw2, dng, x3f)
- Video: 3GP, 3G2, ASF, AVI, DAT, DivX, DVR-MS, ISO, M2T, M2TS, M4V, MKV, MP4, MPEG1, MPEG2, MPEG4, MTS, MOV, QT, SWF, TP, TRP, TS, VOB, WMV, XviD, RV30, RV40, AC3, AMR, WMA3
- Playlist: M3U, WPL
- Subtitles: srt, psb, smi, ass, ssa, sub, idx, ifo (x07 Series: DSM v2.0.3 0451 and onward; x06 Series: DSM v2.0.3 0430 and onward)

To enable DLNA/UPnP media server:

Tick Enable DLNA/UPnP media server and click OK.

Determine the DMA Menu Language and Style

You can decide how to organize your multimedia files on the DMA menu by selecting a predefined menu style or customizing your own. The system can save up to three different sets of customized menu styles.

Media Server Browsing Setti ✓ Enable DLNA/UPnP media serv			
Enable DLNA/UPnP support to	browse multimedia files with a DLI	LNA/UPnP DMA.	
DMA menu language:	English	~	
DMA menu style:	Simple style	Customize	
Diagnose Re-index			

To determine the DMA menu language:

Choose a language from the DMA menu language drop-down menu.

To customize the DMA menu style:

- 1 Choose one of the three customized styles, and then click Customize.
- 2 Click one of the following tabs: Music, Photo, or Video.
- 3 Do any of the following:
 - If you want to create a new menu style, click Create. If you have selected Music, there will be a list of templates.
 - If you want to edit an existing style, click Edit.

Note: For users to correctly browse the multimedia files on the server, the codepage and menu language you set should be identical with those of the DMA. For more information about setting the codepage, see "Language" on Page 36.

Re-index Media Files

Click **Re-index** to reconstruct the index structure of the multimedia files if you find missing multimedia files while browsing through Synology DiskStation with your DMA device. The process will be executed in the background.

Media Server Browsing Settings	DMA Compatibility
Enable DLNA/UPnP media server Enable DLNA/UPnP support to browse n	nultimedia files with a DLNA/UPnP DMA.
DMA menu language:	English
DMA menu style:	Simple style Customize
Diagnose Re-index	

Record Diagnostic Log

The log can help determine the cause of the problem when you contact Synology Support for assistance.

To manage DMA communication log:

- 1 Click Diagnose and tick Enable DMA communication log for diagnostic purpose to start recording the log.
- 2 You can download or clear the recorded log by clicking Download or Clear.
- 3 Click OK.

Manage Browsing Settings

In the Browsing Settings section, you can manage the browsing settings for DMA.

🔏 Control Panel - Media Server		00
< ⇒ ♠		?
Media Server Browsing Settings	DMA Compatibility	_
Transmit low resolution images instead Enable this function to quickly browse		
Music display format:	Title only	
Set images with the below filenames a	s music/video cover	
Filenames:	cover.jpg;Cover.jpg;COVER.jpg;folder.jpg;Folder.	
Hide video subtitle files		
Show video's title using embedded info	ormation	
Enable Internet Radio		
	OK Cancel	

To quickly browse images:

Tick Transmit low resolution images instead of the original images.

To change how your music files will be displayed:

Select a Music display format from the drop-down menu.

To set album cover (for music files without an embedded image) or video thumbnails:

- 1 Tick Set images with the below filenames as music/video cover.
- 2 Enter Filenames such as Cover.jpg, and the image with the same filename under the same folder as the music files will be displayed as album covers or video thumbnails. The filenames are case sensitive, and the filename listed closest to the front will be used when multiple images are available.

To hide video subtitle files:

Tick Hide video subtitle files.

Note: Under most circumstances, you can hide video subtitle files while browsing DiskStation media with a DMA device, because only a few DMAs need to browse the subtitle files to have the subtitle function to work correctly.

To show video's title using embedded information instead of file name: Tick Show video's title using embedded information.

To browse and play the radio stations listed on Audio Station: Tick Enable Internet Radio.

Enhance DMA Compatibility

In the **DMA Compatibility** section, you can enhance DMA compatibility to make sure the multimedia contents on your DiskStation are played smoothly on your DMA devices.

🔏 Control Panel - Media Server	00
	?
Media Server Browsing Settings DMA Compatibility	_
Enable transcoders	
Enable transcoder to play files with the below formats if they are not supported on your DMA. The settings apply to some DMA only.	
FLAC/APE AAC OGG AIFF	
Enable customized MIME types	
Enter customized MIME types to help DMA identify file formats. Customized MIME types will overwrite the default settings.	
Customized MIME types: avi=video/x-ms-video,wav=audio/x-wav	
OK Cancel	

To enable transcoder Settings:

Tick the following checkboxes to enable transcoders if your DMA does not support the following audio formats: **FLAC**, **APE**, **AAC**, **OGG**, and **AIFF**.

To help DMA identify multimedia file formats:

Tick Enable customized MIME types and enter the Customized MIME types.

More Information

MIME types, also known as **Internet media types**, can improve the compatibility of multimedia files with DMA by specifying the type and sub-type of media files. You can customize the MIME types to help your DMA device identify the correct file formats.

Play Multimedia Contents with DMA Devices

Synology DiskStation can pair up perfectly with Sony PS3, Xbox 360, and many other DMA devices. You can use those devices to browse and stream multimedia contents from your DiskStation to your stereo system and TV set.¹

Note: For information about browsing media server's contents with DMA devices, see the documentation that came with your device.

¹ For recommended peripheral models, including hard drive, USB printer, DMA, and UPS, please visit www.synology.com.

Manage iTunes Service

Go to Main Menu > Control Panel > iTunes to use iTunes service. After it is enabled, all iTunes clients on the same local area network can browse and play songs or videos on your Synology DiskStation.

X Control Panel - iTunes	○ (3)
	?
iTunes Enable iTunes service to allow all iTunes clients in the same subnet to brow and "photo" shared folder. ✓ Enable iTunes Service Shared name: Chrislaids410j Require password Password:	se and play songs and videos in the "music", "video",
Smart Playlist Re-index	OK Cancel

The following shared folders will be accessed by iTunes clients:

- photo
- video
- music

Note: For privacy reasons, iTunes clients are not allowed to view videos in the photo shared folder.

The following formats will be supported by iTunes service:

- Audio: MP3, M4A, M4P
- Video: MOV, MP4, M4V
- Playlist: WPL, M3U

Enable iTunes Service

- 1 Tick Enable iTunes service and enter your Shared name.
- 2 Tick Require password and enter a password if you want iTunes users to enter a password before accessing your shared folders.
- 3 Click OK.

Use Smart Playlist

Click Smart Playlist to open the Smart Playlist window, where you can create and edit smart playlists on your Synology DiskStation.

Smart Playlist	:		
Name: motivat		Add Rule Delete Rule any match the following rule:	
Genre	is	techno	

A smart playlist can automatically include certain types of songs that match specific rules. iTunes clients will be able to play the smart playlist you created.

To create a smart playlist:

- 1 Click Create, name the playlist, and click OK.
- 2 Click Add Rule to set the rules.
- 3 Click OK.

To edit a smart playlist:

- **1** Do one of the following to start editing:
 - Double-click the item you want to edit.
 - Select the item and click Edit.
- 2 Do any of the following to modify the rules:
 - Modify the rules by choosing items from the drop-down menus.
 - Click Add Rule if you want to add a rule.
 - Select a rule and click Delete Rule if you want to delete the rule.
- 3 Click OK.

To delete a smart playlist:

- 1 Select the smart playlist you want to delete.
- 2 Click **Delete** and then click **Yes**.

Note: You can also create and edit smart playlists with Audio Station. See "Work with Playlist" on Page 149 for more information.

Re-index Audio Files

Click **Re-index** to reconstruct the index structure of the audio files if you find missing files while browsing through Synology DiskStation with iTunes. The process will be executed in the background.

Perform Advanced Management Tasks

Synology DiskStation Manager comes with a variety of management functions, allowing you to check system information, monitor system resources, receive notification, restore or upgrade DSM, upgrade packages, and more.

This chapter explains how to comprehend those management functions to make sure your Synology DiskStation is providing the best performance.

Check System Information

Go to Main Menu > System Information to check the following system information.

General

Click General to obtain a status overview of your Synology DiskStation (including Basic Information, Network, Time, and USB device) and all other connected eSATA or USB devices (if any).

🕖 System Information	@ D D Q
General Network Storage Log]
Item	Value
Basic information	
Serial number	A1GAN00408
Model name	DS1010+
Total Physical Memory	1024 MB
DSM version	DSM 3.1-1553
System time	Fri Jan 28 16:55:50 2011
Operating time	9 day(s) 5 hour(s) 54 minute(s) 28 second(s)
Thermal Status	
🖯 Time	
Network time server	(Not enabled)
Time zone	(GMT+08:00) Taipei
USB device	
No USB device is connected.	
🗆 eSATA device	
eSATA Disk	Expansion Unit

The DiskStation's thermal status is represented by green or orange lights:¹

- Green: Thermal status is normal.
- Orange: DiskStation's thermal temperature is high. You need to cool down your DiskStation, or it will shut down to prevent system overheat.

The system's general information includes the following:

- Basic Information: You can see the detailed information about your Synology DiskStation here, including server name, serial number, model name, memory size, DSM version, system time, and operating time.
- Network: You can see the MAC address, IP address, and the other network information of your Synology DiskStation here.
- Time: You can see the time setting of your Synology DiskStation here, including time server and time zone. To set up your time server, see "Set Up Time" on Page 37.
- Hard disk(s): You can see the model name, temperature, disk size, and disk status of your Synology DiskStation here.

¹ The information is available for specific models only.

Network

You can view the status of network configuration and network interfaces.

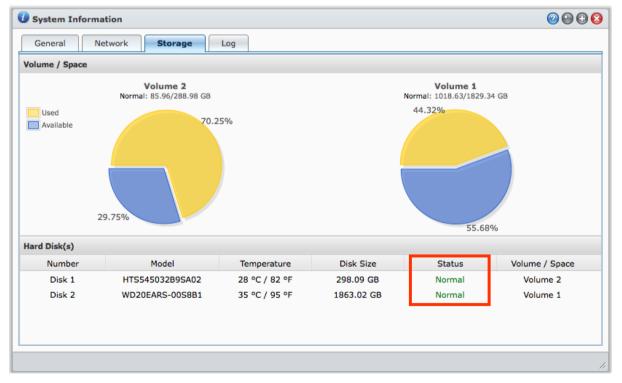
System Information	@ @ O (
General Network Storage Log	
Item	Value
Basic information	
Server name	PMDemo
DNS	192.168.252.254
Default gateway	192.168.31.254
Workgroup	WORKGROUP
AppleTalk Zone	<not configured=""></not>
WINS server	<not configured=""></not>
Tunnel	<not configured=""></not>
Bond 1	
MAC address	00-11-32-05-E5-6E
IP address	192.168.21.187
Subnet mask	255.255.240.0
IPv6 address	fe80::211:32ff:fe05:e56e/64 Scope:Link

The network status includes the following:

- Basic information: See the basic information of your DiskStation's network configuration.
- [Interface Name]: See the detailed information of the network interface(s) currently configured on your DiskStation.

Storage

You can check the free or used space of your DiskStation volumes and check the status of the hard disks.



To check volume usage:

From the pie charts, you can see the free or used space of DiskStation volumes.

The hard drive status might be any of the following:

- Normal: System partition and volume are available for use on the hard drive.
- Initialized: System partition is established, but no volume has been created.
- Not Initialized: System partition and volume are not established on the hard drive.
- No Disk Installed: No disk is installed in the corresponding hard drive slot.
- System Partition Failed: System partition on the hard drive is unavailable. We recommend that you replace the hard drive.
- Crashed: Failed to access volume on the hard drive. We recommend that you replace the hard drive.

Note: For the system to function normally, there should be at least one disk in Normal or Initialized status.

Log

Click Log to check the system log, which records every move of DiskStation users.

🕖 System Information			0000
General Network St	orage	Log	
System log	~	Clear Save Refresh	
System log	;e	Event	
Connection log	mn	Apple file service was started.	ſ
Current connection FTP file transfer log	mn	Windows file service was started.	
File Station log	mn	Windows file service was stopped.	
File Browser log	mn	Apple file service was stopped.	
WebDAV log	mn	Default gateway was changed from [192.168.31.254] to [192.168.31.254].	
Windows file service transfer log	mn	Subnet mask of [LAN Port bond0] was changed from [] to [255.255.240.0].	
Backup log Network Backup log	mn	IP of [LAN Port bond0] was changed from [] to [192.168.21.187].	
	mn	Enable jumbo frame for [LAN port bond0]. MTU value was change to [1500]	ų
0 2011/01/28 14:42:35	admin	User [admin] logged in from [192.168.24.186]	
0 2011/01/28 14:42:26	admin	Apple file service was started.	
2011/01/28 14:41:57	admin	Windows file service was started.	

To see the log records of specific service:

Use the drop-down menu to filter through the kinds of log records you want to see View the filtered log records in the main area.

To delete log records:

- 1 Select the log item you want to delete from the drop-down menu.
- 2 Click Clear to delete the log records.

To save log records:

- 1 Select the log item you want to save from the drop-down menu.
- 2 Click Save.
- 3 The log records will be extracted to an .html file. You can choose to open it or save it to a disk.

To refresh the log:

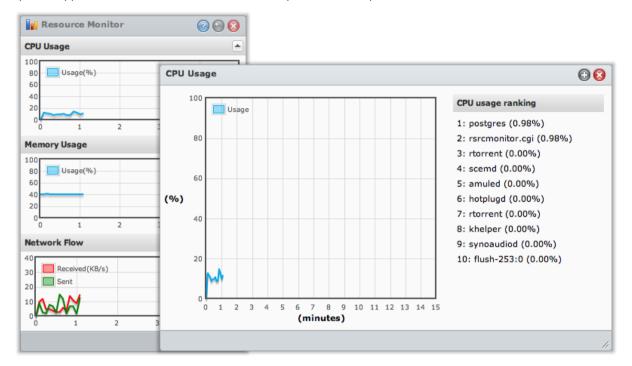
Click Refresh to reload the page and get the most updated log records.

Note: When the log size reaches its limit, the oldest record will be removed for space-saving consideration.

Monitor System Resources

Go to Information > Resource Monitor to monitor system resources.

When you launch **Resource Monitor**, it will start to collect and display data. The data will be deleted when you quit the application. Resource data collected in the past will not be preserved.



The system resources include the following:

- CPU Usage: You can see the overall CPU usage as well as the CPU usage of each process in the order of decreasing CPU load. CPU load could be high when Resource Monitor is first launched, because the system needs to collect its resource data and load the UI page at the same time. Please note that keeping Resource Monitor launched will consume system resource.
- Memory Usage: Memory usage remains high because the system stores frequently accessed data in cache, so the data can be quickly obtained without accessing the hard drive. Cache memory will be released when overall memory is insufficient.
- Network Flow: The network flow chart displays the data sent and received rate in KB per second. If PPPoE is
 enabled, its transfer rate will also show up on the chart.

To see the details of any of the resources:

Click any of the resources to open a window that displays the details of resource usage.

Update DSM

Go to Main Menu > Control Panel > DSM Update to keep your Synology DiskStation up to date.

Important: The data saved on the Synology DiskStation will not be erased during the updating process. However, for security reason, we strongly recommend that you back up the data first.

A	
	nctions and improved performance might be available. Check Synology Website now for any updates.
Model name:	DS1010+
Current DSM version:	DSM 3.1-1592
DSM date:	2011/02/23
Status:	Current DSM is the latest version.
Check and download upda	ate regularly
Note: The DSM version is no	t downgradeable. The applied DSM must be newer than the current one.

To check if the latest DSM is available for download:

When you go to this page, the system will check with Synology Website for any updates. The check results (shown in the **Status** field) might be any of the following:

- Current DSM is the latest version.
- The latest [DSM_VERSION] is ready for download.

To have the system download the latest DSM and perform the update:

- 1 If the latest DSM is ready for download, click the **Download** link to have the system download the latest DSM for you.
- 2 The system will display any of the following desktop notifications to tell you whether the download is successful or not: DSM Download Completed or DSM Download Failed.
- 3 Click the desktop notification window to go to DSM Update.
- 4 Do any of the following:
 - If DSM download completed, click Update now to start updating DSM immediately.
 - If DSM download failed, click Retry to have the system download the latest DSM from Synology again.

To check for updates regularly:

If you enable **Check for update regularly**, the system will check for the latest DSM regularly, download it automatically, and then display desktop notification when DSM download completes.

Troubleshooting

If you see error messages (in red text) during checking or downloading the latest DSM, the following suggestions might help solve your problem:

- Make sure your DiskStation is connected to the Internet.
- Synology's download server might be busy at the moment. Retrying download at a later time might solve the problem.

If the problem remains, please contact Synology's Technical Support.

To perform manual DSM update:

- 1 Visit Synology's Download Center to download the latest .pat update file to your local computer.
- 2 Click Manual DSM Update to enter Manual DSM Update Page
- 3 Click Browse to select the update file.
- 4 Click OK to start to update your DSM.

The system will reboot automatically when the update completes.

Troubleshooting

If you cannot update DSM, the following suggestions might help solve your problem:

- Check if the upgrading process was interrupted by users, or other unexpected events, such as a power failure.
- Check the DSM version. You can only update the system with a newer DSM version.
- Download the DSM update again because the update file might be corrupted.

If the problem remains, please contact Synology's Technical Support.

Manage Packages

Synology has integrated several useful third party applications into packages that can be installed and managed easily on your Synology DiskStation Manager.

Go to Main Menu > Package Management to manage the packages.

🚔 Package Management				
Install Upgrade	Uninstall	Get Info Run Stop		e 3 3 ?
Package name	Version	Description	URL	Status
MailStation	20100407-018	Synology Mail Station		Running
				11

For the newest packages, go to http://www.synology.com/support/download.php and download the packages you want. The unzipped package file ends with the .spk extension.

To install a new package:

Click Install and follow the setup wizard to install a new package.

To upgrade a package:

Click Upgrade and follow the setup wizard to upgrade the current package to a newer version.

To uninstall an existing package:

Click Uninstall.

To get detailed information about the installed packages:

Click Get Info. The detailed information includes package description, version, maintainer and running status.

To run/stop package service:

Click Run or Stop if the function is available for the application.

Receive Event Notification

Go to Main Menu > Control Panel > Notification and set up Synology DiskStation to notify you via Email or text messages whenever an important event occurs (for example, status change, system error, lost connection, fan behavior change, or storage volume running out of space).

ontrol Panel - Notification		9
→ ♠		
Email SMS		
An email notification will b	e sent when the system experiences an error or a change in the status.	
SMTP server:		
SMTP port:	25	
Secure connection (SSL	/TLS) is required	
Authentication required Username:		
Password:		
Confirm password:	0 0 0 0 0 0 0 0	
Primary email:		
Secondary email:		
Subject prefix:		
📃 Send a notification mail	to the newly created user	
Send a test email		
	ОК	Cancel

Receive Email Notification

Click the Email tab in the main section to set up email notification.

To set up Email notification:

- 1 Enter the SMTP server name or IP address.
- 2 By default, the SMTP port number is 25. Modify the number if you have specified a different SMTP port while setting up port forwarding rules.
- 3 If your SMTP server requires SSL/TLS connection, tick Secure connection (SSL/TLS) is required.
- 4 If your SMTP server requires authentication, tick Authentication required, and enter your username and password for the email server.

- 5 Enter the email address that will receive the notification mails in the **Primary email** or the **Secondary email** field.
- 6 Click Send a test email to see if your email settings are set up properly.

If you want to add a subject prefix in front of the notification mail subject, enter it in the **Subject prefix** field. The prefix helps you identify which DiskStation the notification mail was sent from.

More Information

About SMTP server's domain name:

The SMTP server can be an IP address or a domain name. If it is a domain name, please make sure a valid DNS server IP has been entered at Main Menu > Control Panel > Network, and make sure the server is on the Internet.

Receive SMS Notification

Click the SMS tab in the main section to set up SMS notification.

Notification events include:

- · Volume has crashed. (Including internal volume, expansion unit, or system volume)
- · Volume has degraded. (Including internal volume, expansion unit, or system volume)
- The expansion unit no longer exists.
- Internal disk has crashed.
- DDNS registration failed.
- UPS has been disconnected.
- The internal or expansion unit fan has stopped.
- The system has shut down due to overheating.

To set up SMS notification:

- 1 Tick Enable SMS notifications.
- 2 Select a SMS provider from the SMS service provider drop down list. The default service provider is "clickatell".
- 3 Click Add to create a new SMS provider configuration or click Delete to delete the selected SMS provider configuration.
- 4 In the Username field, enter the username of your SMS service account.
- 5 In the Password and Confirm password field, enter and confirm the password of your SMS service account.
- 6 Enter your Primary phone number or Secondary phone number. If both numbers are entered, SMS notification messages will be sent to both numbers.
- 7 If you do not wish to receive too many messages, tick **Enable SMS interval limit** and limit the number of notification messages to one message per the time interval you specified.
- 8 Click Send a test SMS message to send a test SMS message to the phone number you specified. If no message is received, it means the configuration is incorrect.
- 9 Click OK to save the configuration, or click Cancel to cancel the setup.

Note: Fees might apply to send SMS messages. Contact your local SMS service provider for more information.

To create a SMS provider configuration:

- 1 Click Add.
- 2 In the **Provider name** field, enter the name of your SMS service provider.
- 3 In SMS URL field, enter a SMS URL with the message content set to "Hello world." You can obtain the SMS URL from your SMS service provider.
- 4 Click Next.
- **5** The system will break down the SMS URL into several parameters. Define each parameter by selecting the corresponding category. Each parameter category can be used only once except **Other**.

More Information

SMS URL: case sensitive and must be between 1 and 500 Unicode characters. The number of parameters must be between 4 and 10. This SMS URL is only for setup purposes. No SMS message will be sent after setup is completed. The format of this URL is provided by the SMS service provider, and the URL must include the following parameters: username, password, destination phone, and message content.

Using Clickatell as an example, a sample URL would be the following (reference only): https://api.clickatell.com/http/sendmsg?user=TestUser&password=TestPassword&api_id=3148203&to=886123 456789&text=Hello+world

Please note that in "message content" parameter, the space between "Hello" and "world" will be replaced by the particular character defined by the service provider.

Reset admin's Password

If you forgot the password for **admin** and are therefore unable to log in to DSM, you can reset the password to blank and set a new password.

To reset admin's password:

Press and hold the **RESET** button on the back panel of your Synology DiskStation for 4 seconds until you heard a beep sound.

Note: Other than resetting administrator's password, using the **RESET** button will also restore Synology DiskStation's IP and DNS to the default value.

Restore Synology DiskStation to Factory Defaults

Go to Main Menu > Control Panel > Restore Defaults if you want to restore your Synology DiskStation to factory defaults.

Control Panel - Restore Defaults	00
	?
Restore Options	
 Format the hard disk but keep the current settings 	
Format the hard disk and restore to factory default settings	
Reset MySQL Database Password	
Delete MySQL Databases	
OK Can	cel

There are three restore options:

- Format the hard disk but keep the current settings: All user data in the hard drive will be deleted; whereas the system configurations will remain.
- Format the hard disk and restore to factory default settings: All user data in the hard drive will be deleted and the entire system will be restored to default.
- Reset the password of MySQL database: The password of the MySQL database will be reset.
 If you wish to delete your MySQL databases, check the Delete MySQL databases checkbox and click OK.

Reinstall Synology DiskStation

If you want to reinstall your Synology DiskStation without losing its data, you can use the **RESET** button on the back panel.

To reinstall Synology DiskStation:

- 1 Press and hold the **RESET** button for about 4 seconds until the Synology DiskStation emits a beep sound.
- 2 Within the next 10 seconds, press and hold **RESET** button for about 4 seconds until the Synology DiskStation emits a beep sound.
- **3** Run Synology Assistant and follow the installation instructions in the **Quick Installation Guide** that came with your installation CD to set up the Synology DiskStation.

Important: The data saved on the Synology DiskStation will not be erased during the reinstallation. However, for security reason, we strongly recommend that you back up the data first.

Enable SNMP Service

Go to Main Menu > Control Panel > SNMP to enable SNMP service, which allows users to monitor Synology DiskStation network flow with the network management software.

Currently, SNMPv1 and SNMPv2c protocols are supported.

Control Panel - SNMP			00
← →			?
SNMP Enable SNMP to monitor the s Enable SNMP service Community: Name: Location: Email:	public	software.	
			OK Cancel

To enable SNMP service:

- 1 Tick Enable SNMP service and enter a Community name.
- 2 Enter the optional information to help you identify your Synology DiskStation: Name, Location, and Email.
- 3 Click OK.

To disable the SNMP service:

Uncheck Enable SNMP service, and click OK.

Enable Terminal Services

Go to Main Menu > Control Panel > Terminal to enable Terminal service, allowing you to use Telnet or SSH to log in to Synology DiskStation and modify its settings.

X Control Panel - Terminal	00
	?
□ Terminal Service Options	
Use Terminal service to login and manage your system.	
Enable Telnet service	
Enable SSH service	
ОК Са	ncel

To enable connection to Synology DiskStation via Telnet or SSH:

1 Do any of the following:

- If you want to enable the Telnet service, tick Enable Telnet service.
- If you want to enable the SSH service, tick Enable SSH service.

Note: When you disable the SSH service, all SSH tasks will be terminated immediately. If you disable the SSH service while performing a backup task, perform the task again after the SSH service is disabled.

2 Click OK.

Important: Use the Terminal service with caution. Improper manipulation or modification to Synology DiskStation may result in system malfunction or data loss.

Communicate with Mobile Devices

As Internet access grows popular on mobile devices, Synology provides you with several creative alternatives to communicate with your Synology DiskStation using iOS/Android devices or other mobile devices.

Use iOS and Android Apps

The 4 Apps designed by Synology are now available on Apple's App Store or Android's Market, allowing you to communicate with Synology DiskStation wherever Wi-Fi access is available. You can manage your DiskStation files, music, photo and video albums, and even the surveillance videos on the go.

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		Vivotek-IP7151		>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
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DS a	udio	DS cam	DS photo+	DS file

DS audio

DS audio allows you to access Audio Station with an iOS or Android device and listen to your favorite music on the go. Besides, the remote controller feature allows you to control Audio Station's music playback when there is a USB speaker attached to your DiskStation.

DS cam

DS cam allows users who own an iOS or Android device to live view their IP cameras, take snapshots, and view recorded events from your Surveillance Station whenever a network connection is available.

DS photo+

DS photo+ allows you to access Photo Station with an iOS or Android device and share your precious moments on the go. Download and save photos from Photo Station to your mobile device so you can enjoy the flashbacks anytime anywhere. You can also use DS photo+ to upload snapshots or videos from your camera phone straight to Photo Station. Besides, you and your friends can interact by leaving comments on any photos, adding more fun to your photo sharing experiences.

DS file

DS file allows you to access and manage DiskStation files with iPhone running on iOS 4.2 or later.

Note: For more information about using those Apps, open any of them and tap Settings > Document > Help.

Use Other Mobile Devices

If you have a mobile device running on Windows Mobile 6.0 (with Internet Explorer Mobile or Opera 9.0 or later), Symbian OS 9.1 (with S60 3rd Edition or later), or iPhone OS 2.3.1 or later, you can use the device to log in to Synology DiskStation to view photos with Mobile Photo Station and read supported file formats with Mobile File Station around the world where Internet access is available.



Appendix

Synology DiskStation Specifications

For the most recent product specification, please visit www.synology.com.

Item	DS110j	DS110+	DS111	
Internal HDD	3.5 SATA (II) x 1	3.5 SATA (II) x 1	3.5 SATA (II) x 1	
Max. Capacity	3TB	3TB	ЗТВ	
Hot Swappable HDD	No	No	No	
External HDD Interface	USB x 3	USB x 3 eSATA x 1	USB x 3 eSATA x 1	
LAN Port	Gigabit x 1	Gigabit x 1	Gigabit x 1	
USBCopy	Yes	Yes	Yes	
System Fan (mm)	x 1 (50 x 50)	x 1 (50 x 50)	x 1 (50 x 50)	
Size (HxWxD) (mm)	160 x 63 x 218	160 x 63 x 218	160 x 63 x 218	
Weight (Kg)	0.81	0.81	0.81	
Supported Clients		Windows 2000 onward Mac OS X 10.3 onward Ubuntu 9.04 onward		
Max. User Accounts	512	2048	2048	
Max. Group Accounts	128	256	256	
Max. Shared Folder	256	256	256	
Max. Concurrent Connections	64	256	128	
Max. Supported IP Cameras	5	12	8	
File System	・EXT4・EXT3・FAT (Ex	ternal Disk, Read/Write) • NTFS (External Disk, Read/Write)	
Volume Type		 Basic 		
Agency Certifications	• FCC	C Class B · CE Class B · BSMI C	lass B	
HDD Hibernation	Yes	Yes	Yes	
Event Notification	Yes	Yes	Yes	
NTP	Yes	Yes	Yes	
FTP over SSL/TLS	Yes	Yes	Yes	
HTTPS Connection	Yes	Yes	Yes	
Windows ADS Domain	Yes	Yes	Yes	
iSCSI	Yes	Yes	Yes	
Scheduled Power On/Off	Yes	Yes	Yes	
Wake on LAN	No	Yes	No	

Based on DSM 3.1

Item	DS110j	DS110+	DS111		
	English Deutsch I	Français • Italiano • Español • D	ansk • Norsk • Svensk		
Language Localization	 Nederlands Русски 	ий • Polski • Magyar • Português	s do Brasil • Português		
	Europeu ・Türkçe ・Český ・日本語・한국어・繁體中文・简体中文				
	Line voltage: 100V to 240V AC				
	Frequency: 50/60Hz				
Power Consumption	 Operating Temperature: 40 to 95°F (5 to 35°C) 				
And Environment Requirements	 Storage Temperature: 15 to 155°F (-10 to 70°C) 				
	Relative Humidity: 5% to 95% RH				
	Maximum Operating Altitude: 10000 feet (3048m)				

Item	DS710+	DS211j	DS211	DS211+	
Internal HDD	SATA (II) x 2	3.5 SATA (II) x 2	3.5 SATA (II) x 2	3.5 SATA (II) x 2	
Max. Capacity	6TB (2 x 3TB hard drives)	6TB (2 x 3TB hard drives)	6TB (2 x 3TB hard drives)	6TB (2 x 3TB hard drives)	
Hot Swappable HDD	Yes	No	No	Yes	
External HDD Interface	USB x 3 eSATA x 1	USB x 3	USB x 3	USB x 3 eSATA x 1	
SD Card Slot	No	No	No	Yes	
LAN Port	Gigabit x 1	Gigabit x 1	Gigabit x 1	Gigabit x 1	
USBCopy	Yes	Yes	Yes	Yes	
SDCopy	No	No	No	Yes	
System Fan (mm)	x 1 (80 x 80)	x 1 (70 x 70)	x 1 (70 x 70)	x 1 (92 x 92)	
Size (HxWxD) (mm)	157 x 103.5 x 232	161 x 88 x 218	161 x 88 x 218	165 X 108 X 233.2	
Weight (Kg)	1.69	0.98	0.98	1.25	
Supported Clients		• Mac OS X	2000 onward 10.3 onward .04 onward		
Max. User Accounts	2048	512	2048	2048	
Max. Group Accounts	256	128	256	256	
Max. Shared Folder	256	256	256	256	
Max. Concurrent Connections	512	64	128	256	
Max. Supported IP Cameras	16	5	8	12	
File System	• EXT4 • EXT3 • FAT (External Disk, Read/Write) • NTFS (External Disk, Read/Write)				
Volume Type	・Basic ・JBOD・RAID 0・RAID 1				
Agency Certifications	FCC Class B CE Class B BSMI Class B				
HDD Hibernation	Yes	Yes	Yes	Yes	
Event Notification	Yes	Yes	Yes	Yes	

				Based on DSM 3.1		
ltem	DS710+	DS211j	DS211	DS211+		
NTP	Yes	Yes	Yes	Yes		
FTP over SSL/TLS	Yes	Yes	Yes	Yes		
HTTPS Connection	Yes	Yes	Yes	Yes		
Windows ADS Domain	Yes	Yes	Yes	Yes		
iSCSI	Yes	Yes	Yes	Yes		
Scheduled Power On/Off	Yes	Yes	Yes	Yes		
Wake on LAN	Yes	No	No	No		
Language Localization	・English ・Deutsch ・Français ・Italiano ・Español ・Dansk ・Norsk ・Svensk ・Nederlands ・Русский ・Polski ・Magyar ・Português do Brasil ・Português Europeu ・ Türkçe ・Český ・日本語・한국어・繁體中文・简体中文					
		Line voltage	ge: 100V to 240V AC			
	Frequency: 50/60Hz					
Power Consumption And Environment	 Operating Temperature: 40 to 95°F (5 to 35°C) 					
Requirements		Storage Temperate	ure: 15 to 155°F (-10 to 70	°C)		
	Relative Humidity: 5% to 95% RH					

Maximum Operating Altitude: 10000 feet (3048m)

Item	DS410	DS411slim	DS411j	DS411+II	RS411	RS810+	RS810RP+
	3.5 SATA	2.5 SATA	3.5 SATA	3.5 SATA	3.5 SATA	SATA (II)	SATA (II)
Internal HDD	(II) x 4	x 4	x 4				
	12TB	4TB	12TB	12TB	12TB	12TB	12TB
Max. Capacity	(4 x 3TB hard drives)	(4 x 1TB hard drives)	(4 x 3TB hard drives)				
Hot Swappable HDD	No	No	No	No	Yes	Yes	Yes
External HDD	USB x 2						
Interface	eSATA x 1	eSATA x 1	USB X 2	eSATA x 1	eSATA x 1	eSATA x 1	eSATA x 1
LAN Port	Gigabit x 1	Gigabit x 1	Gigabit x 1	Gigabit x 1	Gigabit x 2	Gigabit x 2	Gigabit x 2
USBCopy	No	Yes	No	No	No	No	No
System Fan (mm)	x 2 (80 x 80)	x 1 (60 x 60)	x 2 (80 x 80)	x 2 (80 x 80)	x 3 (40 x 40)	x 3 (40 x 40)	x 4 (40 x 40)
Power Fan (mm)	No	No	No	No	x 1 (40 x 40)	x 1 (40 x 40)	x 1 (40 x 40)
Size (HxWxD) (mm)	168 x 184 x 230	120 x 105 x 142	168 x 184 x 230	168 x 184 x 230	44 x 430.5 x 457.5	44 x 430.5 x 457.5	44 x 430.5 x 457.5
Weight (Kg)	2.23	0.66	2.23	2.23	7.1	7.1	9.68
			• Wi	ndows 2000 on	ward		
Supported Clients			• Ma	nc OS X 10.3 or	ward		
			۰U	lbuntu 9.04 onw	/ard		
Max. User Accounts	2048	2048	1024	2048	2048	2048	2048
Max. Group Accounts	256	256	256	256	256	256	256

Ra	cod	on	DS	NA	3 1
Dd	Seu	011	03	IVI	J. I

Item	DS410	DS411slim	DS411j	DS411+II	RS411	RS810+	RS810RP+
Max. Shared Folder	256	256	256	256	256	256	256
Max. Concurrent Connections	256	128	128	512	128	512	512
Max. Supported IP Cameras	12	8	5	20	8	20	20
File System	۰EX	T4 • EXT3 • FA	T (External Dis	k, Read/Write)	NTFS (Extern	nal Disk, Read/	Write)
Volume Type				JBOD ・RAID(D 5+Spare ・R		0	
Agency Certifications	• FCC	Class B • CE C	Class B • BSMI	Class B	• FCC	Class A · CE	Class A
HDD Hibernation	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Event Notification	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NTP	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FTP over SSL/TLS	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HTTPS Connection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Windows ADS Domain	Yes	Yes	Yes	Yes	Yes	Yes	Yes
iSCSI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Scheduled Power On/Off	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wake on LAN	Yes	No	No	Yes	No	Yes	Yes
Language Localization	・English ・Deutsch ・Français ・Italiano ・Español ・Dansk ・Norsk ・Svensk ・Nederlands ・Русский ・Polski ・Magyar ・Português do Brasil ・Português Europeu ・Türkçe ・ Český ・日本語・한국어・繁體中文・简体中文						
Power Consumption And Environment Requirements	 Line voltage: 100V to 240V AC Frequency: 50/60Hz Operating Temperature: 40 to 95°F (5 to 35°C) Storage Temperature: 15 to 155°F (-10 to 70°C) Relative Humidity: 5% to 95% RH Maximum Operating Altitude: 10000 feet (3048m) 						

Item	DS1511+	
Internal HDD	SATA (II) x 5	
Max. Capacity	15TB (5 x 3TB hard drives)	
Hot Swappable HDD	Yes	
External HDD Interface	USB x 4 eSATA x 2	
LAN Port	Gigabit x 2	
USBCopy	No	
System Fan (mm)	x 2 (80 x 80)	

Based on DSM 3.1

Item	DS1511+	
Power Fan (mm)	x 1 (40 x 40)	
Size (HxWxD) (mm)	157 x 248 x 233	
Weight (Kg)	4.25	
	Windows 2000 Onward	
Supported Clients	Mac OS X 10.3 Onward	
	Ubuntu 9.04 onward	
Max. User Accounts	2048	
Max. Group Accounts	256	
Max. Shared Folder	256	
Max. Concurrent Connections	512	
Max. Supported IP Cameras	20	
File System	EXT4 • EXT3 • FAT (External Disk, Read/Write) • NTFS (External Disk, Read/Write)	
Volume Type	• Basic • JBOD • RAID 0 • RAID 1 • RAID 5 • RAID 5+Spare • RAID 6 • RAID 10	
Agency Certifications	FCC Class B CE Class B BSMI Class B	
HDD Hibernation	Yes	
Event Notification	Yes	
NTP	Yes	
FTP over SSL/TLS	Yes	
HTTPS Connection	Yes	
Windows ADS Domain	Yes	
iSCSI	Yes	
Scheduled Power On/Off	Yes	
Wake on LAN	Yes	
Language Localization	・English ・Deutsch ・Français ・Italiano ・Español ・Dansk ・Norsk ・Svensk ・Nederlands ・Русский ・Polski ・Magyar ・Português do Brasil ・Português Europeu ・Türkçe ・Český ・日本語・한국어・繁體中文・简体中文	
	Line voltage: 100V to 240V AC	
	Frequency: 50/60Hz	
Power Consumption and Environment	 Operating Temperature: 40 to 95°F (5 to 35°C) 	
Requirements	 Storage Temperature: 15 to 155°F (-10 to 70°C) 	
	Relative Humidity: 5% to 95% RH	
	Maximum Operating Altitude: 10000 feet (3048m)	

Item	RS2211+ RS2211RP+		
Internal HDD	SATA (II) x 10		
Max. Capacity	30TB (10 x 3TB hard drives)		
Hot Swappable HDD	Yes		

Based on DSM 3.1

Item	RS2211+	RS2211RP+		
External HDD Interface	USB x 4			
	Expansion port x 1 (InfiniBand)			
LAN Port	Gigat	bit x 2		
USBCopy	Ν	0		
System Fan (mm)	x 4 (80	0 x 80)		
Power Fan (mm)	x 1 (80 x 80)	x 4 (40 x 40)		
Size (HxWxD) (mm)	88 x 44	5 x 570		
Weight (Kg)	12.2	14.3		
Supported Clients	• Mac OS X	2000 Onward 10.3 Onward .04 onward		
Max. User Accounts	20			
	-			
Max. Group Accounts		56		
Max. Shared Folder	25	56		
Max. Concurrent Connections	51	12		
Max. Supported IP Cameras	20			
File System	EXT4 • EXT3 • FAT (External Disk, Read/Write) • NTFS (External Disk, Read/Write)			
Volume Type	• Basic • JBOD • RAID 0 • RAID 1 • RAID 5 • RAID 5+Spare • RAID 6 • RAID 10			
Agency Certifications	FCC Class A	· CE Class A		
HDD Hibernation	Ye	es		
Event Notification	Ye	es		
NTP	Ye	es		
FTP over SSL/TLS	Ye	es		
HTTPS Connection	Ye	es		
Windows ADS Domain	Ye	es		
iSCSI	Ye	es		
Scheduled Power On/Off	Ye	es		
Wake on LAN	Ye	es		
Language Localization	・English ・Deutsch ・Français ・Italiano ・Español ・Dansk ・Norsk ・Svensk ・Nederlands ・Русский ・Polski ・Magyar ・Português do Brasil ・Português Europeu ・Türkçe ・Český ・日本語・한국어・繁體中文・简体中文			
Power Consumption and Environment Requirements	 Line voltage: 100V to 240V AC Frequency: 50/60Hz Operating Temperature: 40 to 95°F (5 to 35°C) Storage Temperature: 15 to 155°F (-10 to 70°C) Relative Humidity: 5% to 95% RH Maximum Operating Altitude: 10000 feet (3048m) 			

Limitations

- Each Synology DiskStation supports up to 2 USB printers.
- USBCopy function supports USB disks with FAT32 and NTFS file system.
- Some digital cameras are defined as a Still Image Device, such as Canon. For such devices, Synology DiskStation only supports USBCopy function (No USB share function).
- For Mac users, Synology DiskStation only supports USB printers with PostScript.

Appendix

LED Indication Tables

B

LED Indication	Color	Status	Description
	Green	Static	Volume normal
		Off	HDD Hibernation
STATUS		Static	Available volume space < 1GB
314103	Orongo		Available volume space < 1 %
	Orange	Plinking	Volume degraded or crashed
		Blinking	No volume
	Green	Static	Gigabit Link
LAN		Blinking	Network is active
		Off	Network is down
DISK / eSATA	Green	Blinking	Disk is being accessed
DISK / ESATA		Off	Disk is normal
	Green	Static	USB disk detected
USBCopy		Blinking	Copying data
		Off	No USB disk attached
5	Blue	Static	Power ready
		Blinking -	Booting up
Power			Shutting down
		Off	Power off

Most Models

LED Indication	Color	Status	Description
	Green	Static	Volume normal
		Off	
		Slow on/off cycle ¹	HDD Hibernation
STATUS		Static	Available volume space < 1GB
	Orango	Static	Available volume space < 1 %
	Orange	Dlinking	Volume degraded or crashed
		Blinking	No volume
		Static	Gigabit Link
LAN	Green	Blinking	Network is active
		Off	Network is down
	Green	Static	Disk is ready and idle
DISK / eSATA		Blinking	Disk is being accessed
DISK/ESATA		Off	No internal disk
	Orange	Static	Cannot read / write
USBCopy / SDCopy ²	Green	Static	USB disk / SD card detected
		Blinking	Copying data
		Off	No USB disk / SD card attached
	Blue	Static	Power ready
Daviar		Blinking	Booting up or
Power			Shutting down
		Off	Power off

 ¹ DS211+ only.
 ² USBCopy or SDCopy is supported on specific models only. See "Appendix A: Synology DiskStation Specifications" on Page 219 for more information.

DS710+

LED Indication	Color	Status	Description
	Green	Static	Volume Normal
		Off	HDD Hibernation
STATUS		Static	Available volume space < 1GB
514105			Available volume space < 1 %
	Orange		Volume degraded or crashed
		Blinking	No volume
		Static	Gigabit link
	Green	Blinking	Network is active
LAN		Off	Network is down
LAN		Static	10/100MB link
	Orange	Blinking	Network is active
		Off	Network is down
	Green	Static	Disk ready
HDD1 & HDD2		Blinking	Disk is being accessed
		Off	No internal disk
	Orange	Static	Cannot Read/Write
	Blue	Static	Power ready
Dawar		Blinking	Booting up
Power			Shutting down
		Off	Power off
	Green	Static	USB disk detected
USBCopy		Blinking	Copying data
		Off	No USB disk attached

DiskStations

LED Indication	Color	Status	Description
	Green	Static	Volume Normal
		Off	HDD Hibernation
STATUS		Static -	Available volume space < 1GB
514105	0.000	Static	Available volume space < 1 %
	Orange		Volume degraded or crashed
		Blinking	No volume
	Green	Static	Gigabit Link
LAN		Blinking	Network is active
		Off	Network is down
	Green	Static	Disk ready
		Blinking	Disk is being accessed
DISK 1~4		Off	No internal disk
	Orange	Static	Cannot Read/ Write
	Blue	Static	Power ready
_		Blinking	Booting up
Power			Shutting down
		Off	Power off

RackStations

LED Indication	Color	Status	Description
	Green	Static	Volume Normal
		Off	HDD Hibernation
STATUS		Static	Available volume space < 1GB
514105			Available volume space < 1 %
	Orange	Dlinking	Volume degraded or crashed
		Blinking	No volume
		Static	Gigabit Link
LAN	Green	Blinking	Network is active
		Off	Network is down
	Green	Static	Disk ready
DISK 1~4		Blinking	Disk is being accessed
DISK 1~4		Off	No internal disk
	Orange	Static	Cannot Read/ Write
	Green	Static	Power ready
Davage		Blinking	Booting up
Power			Shutting down
		Off	Power off
	Green	Static	Both power supplies are working
RPS-STATUS ¹		Blinking	1 power supply not working
		Off	Power off

¹ RS810RP+ only

DS1511+

LED Indication	Color	Status	Description
	Green	Static	Volume Normal
		Off	HDD Hibernation
STATUS		Static	Available volume space < 1GB
STATUS			Available volume space < 1 %
	Orange		Volume degraded or crashed
		Blinking	No volume
		Static	Gigabit link
	Green	Blinking	Network is active
		Off	Network is down
LAN 1 & LAN 2	Orange	Static	10/100MB link
		Blinking	Network is active
		Off	Network is down
	Green	Static	Disk ready and idle
Hard drive Status Indicator		Blinking	Disk is being accessed
(on tray)		Off	No internal disk
	Orange	Static	Cannot Read/ Write
	Orange	Blinking	FAN fail or over temperature
ALERT		Off	System normal
	Blue	Static	Power ready
		Blinking	Booting up
Power			Shutting down
		Off	Power off

LED Indication	Color	Status	Description
	Groot	Static	Volume Normal
	Green	Off	HDD Hibernation
STATUS	Orange	Static	Available volume space < 1GB
STATUS			Available volume space < 1 %
		Blinking	Volume degraded or crashed
			No volume
LAN	Green	Static	Gigabit Link
		Blinking	Network is active
		Off	Network is down

Based on DSM 3.1

LED Indication	Color	Status	Description
	Orange	Static	10/100M Link
		Blinking	Network is active
		Off	Network is down
		Static	Disk ready
Hard drive Status Indicator	Green	Blinking	Disk is being accessed
(on tray)		Off	No internal disk
	Orange	Static	Cannot Read/ Write
	Blue	Static	Power ready
Device		Blinking	Booting up
Power			Shutting down
		Off	Power off
	Green	Static	Both power supplies are working
RPS-STATUS ¹		Blinking –	1 power supply not working
RPS-STATUS			FAN fail or over temperature
		Off	No power supply or manually turned off
ALERT	Orango	Blinking	FAN fail or over temperature
ALEKI	Orange	Off	System normal

¹ RS2211RP+ only.

Troubleshooting

For any questions about managing your Synology DiskStation, go to Main Menu > DSM Help or click the Help button (with a question mark) at the top-right corner of every window. For any questions other than that, please visit Synology Inc. website www.synology.com for further assistance.

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2.6 Support. During the Warranty Period, Synology will make available to Customer the support services. Following the expiration of the applicable Warranty Period, support for Products may be available from Synology upon written request.

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Section 3. Limitations of Liability

3.1 Force Majeure. Synology will not be liable for, or be considered to be in breach of or default under this Warranty on account of, any delay or failure to perform as required by this Warranty as a result of any cause or condition beyond its reasonable control (including, without limitation, any act or failure to act by Customer).

3.2 Disclaimer of Certain Damages. IN NO EVENT WILL SYNOLOGY OR ITS SUPPLIERS BE LIABLE FOR THE COST OF COVER OR FOR ANY INCIDENTAL, INDIRECT, SPECIAL, PUNITIVE, CONSEQUENTIAL OR SIMILAR DAMAGES OR LIABILITIES WHATSOEVER (INCLUDING, BUT NOT LIMITED TO LOSS OF DATA, INFORMATION, REVENUE, PROFIT OR BUSINESS) ARISING OUT OF OR RELATING TO THE USE OR INABILITY TO USE THE PRODUCT, ANY ACCOMPANYING DOCUMENTATION OR SOFTWARE AND ANY OTHER GOODS OR SERVICES PROVIDED UNDER THIS WARRANTY, WHETHER BASED ON CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHER THEORY EVEN IF SYNOLOGY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

3.3 Limitation of Liability. SYNOLOGY'S AND ITS SUPPLIERS' LIABILITY ARISING OUT OF OR RELATING TO THE USE OR INABILITY TO USE THE PRODUCT, ANY ACCOMPANYING DOCUMENTATION OR SOFTWARE AND ANY OTHER GOODS OR SERVICES PROVIDED UNDER THIS WARRANTY IS LIMITED TO THE AMOUNT ACTUALLY PAID BY CUSTOMER FOR THE PRODUCT

REGARDLESS OF THE AMOUNT OF DAMAGES CUSTOMER MAY INCUR AND WHETHER BASED ON CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHER THEORY. The foregoing disclaimer of certain damages and limitation of liability will apply to the maximum extent permitted by applicable law. The laws of some states/jurisdictions do not allow exclusion or limitation of certain damages. To the extent that those laws apply to the Product, the exclusions and limitations set forth above may not apply to Customer.

Section 4. Miscellaneous

Proprietary Rights. The Product and any 4.1 accompanying Software and documentation provided with the Product include proprietary and intellectual property rights of Synology and its third party suppliers and licensors. Synology retains and reserves all right, title, and interest in the intellectual property rights of the Product, and no title to or ownership of any intellectual property rights in or to the Product, any accompanying Software or documentation and any other goods provided under this Warranty is transferred to Customer under this Warranty. Customer will (a) comply with the terms and conditions of the Synology end user license agreement accompanying any Software furnished by Synology or an authorized Synology distributor or reseller; and (b) not attempt to reverse engineer any Product or component thereof or accompanying Software or otherwise misappropriate, circumvent or violate any of Synology's intellectual property rights.

4.2 Assignment. Customer will not assign any of its rights under this Warranty directly, by operation of law or otherwise, without the prior written consent of Synology.

4.3 No Additional Terms. Except as expressly permitted by this Warranty, neither party will be bound by, and each party specifically objects to, any term, condition or other provision that conflicts with the provisions of this Warranty that is made by the other party in any purchase order, receipt, acceptance, confirmation, correspondence or otherwise, unless each party specifically agrees to such provision in writing. Further, if this Warranty conflicts with any terms or conditions of any other agreement entered into by the parties with respect to the Product, this Warranty will prevail unless the other agreement specifically references the sections of this Warranty that it supersedes.

4.4 Applicable Law. Unless expressly prohibited by local law, this Warranty is governed by the laws of the State of Washington, U.S.A. without regard to any conflict of law principles to the contrary. The 1980 U.N. Convention on Contracts for the International Sale of Goods or any successor thereto does not apply.

Dispute Resolution. Any dispute, controversy or 4.5 claim arising out of or relating to this Warranty, the Product or services provided by Synology with respect to the Product or the relationship between Customers residing within the United States and Synology will be resolved exclusively and finally by arbitration under the current commercial rules of the American Arbitration Association, except as otherwise provided below. The arbitration will be conducted before a single arbitrator, and will be limited solely to the dispute between Customer and Synology. The arbitration, or any portion of it, will not be consolidated with any other arbitration and will not be conducted on a class-wide or class action basis. The arbitration shall be held in King County, Washington, U.S.A. by submission of documents, by telephone, online or in person as determined by the arbitrator at the request of the parties. The prevailing party in any arbitration or legal action occurring within the United States or otherwise shall receive all costs and reasonable attorneys' fees, including any arbitration fee paid by the prevailing party. Any decision rendered in such arbitration proceedings will be final and binding on the parties, and judgment may be entered thereon in any court of competent jurisdiction. Customer understands that, in the absence of this provision, Customer would have had a right to litigate any such dispute, controversy or claim in a court, including the right to litigate claims on a class-wide or class-action basis, and Customer expressly and knowingly waives those rights and agrees to resolve any disputes through binding arbitration in accordance with the provisions of this Section 4.5. For Customers not residing within the United States, any dispute, controversy or claim described in this section shall be finally resolved by arbitration conducted by three neutral arbitrators in accordance with the procedures of the R.O.C. Arbitration Law and related enforcement rules. The arbitration shall take place in Taipei, Taiwan, R.O.C., and the arbitration proceedings shall be conducted in English or, if both parties so agree, in Mandarin Chinese. The arbitration award shall be final and binding on the parties and may be enforced in any court having jurisdiction. Nothing in this Section shall be deemed to prohibit or restrict Synology from seeking injunctive relief or seeking such other rights and remedies as it may have at law or equity for any actual or threatened breach of any provision of this Warranty relating to Synology's intellectual property rights.

4.6 Attorneys' Fees. In any arbitration, mediation, or other legal action or proceeding to enforce rights or remedies under this Warranty, the prevailing party will be entitled to recover, in addition to any other relief to which it may be entitled, costs and reasonable attorneys' fees.

4.7 Export Restrictions. You acknowledge that the Product may be subject to U.S. export restrictions. You will comply with all applicable laws and regulations that apply to the Product, including without limitation the U.S. Export Administration Regulations.

4.8 Severability. If any provision of this Warranty is held by a court of competent jurisdiction to be invalid, illegal, or unenforceable, the remainder of this Warranty will remain in full force and effect.

4.9 Entire Agreement. This Warranty constitutes the entire agreement, and supersedes any and all prior agreements, between Synology and Customer related to the subject matter hereof. No amendment, modification or waiver of any of the provisions of this Warranty will be valid unless set forth in a written instrument signed by the party to be bound thereby.