

DNS-1200-5

Version 1.00

**ShareCenter Pro**<sup>™</sup>

**User Manual**

Business Class Networking

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# Introduction

The D-Link ShareCenter Pro 1200 (DNS-1200-05) Unified network storage addresses the ever-growing data storage requirements for SMB users. The need for data consolidation and data sharing make this enclosure an ideal solution. Small and medium businesses looking for a central storage location for sharing or backing up data. SMBs will appreciate the ease of use of the NAS file server feature as well as the fast access performance of iSCSI. The ShareCenter Pro 1200 is a hybrid NAS/iSCSI storage enclosure, which offers concurrent NAS/iSCSI functionality. In addition, the ShareCenter Pro 1200 has a rich set of SMB features for the small and medium business-minded user.

The included CD contains D-Link's Easy Search Utility. This utility allows you to locate the ShareCenter on the network and map drives to your computer. Backup software is also included on the CD. This software allows you to backup your files from a computer to the ShareCenter manually, by a schedule, or in real-time. Real-time backups are a great way to safeguard against unfortunate accidents that may result in the loss of important files.

Combining ease of use with rich set of SMB features, the ShareCenter Pro 1200 is a great solution for any small and medium business environment. Centralize and manage your data the way you want, and keep it safe with the ShareCenter Pro 1200 Unified network storage!

# Product Overview

## Package Contents

- D-Link ShareCenter Pro 1200
- CD-ROM with Manual and Software
- Quick Installation Guide
- Power Cord
- Cat5 Ethernet Cable
- Front Panel Lock Key



**Note:** Using a power supply with a different voltage than the one included with the ShareCenter will cause damage and void the warranty for this product.

**Note:** The ShareCenter Pro 1200 should only be maintained by the authorized server manager or IT administrator. The ShareCenter Pro 1200 should be locked using the Front Panel Key. Only certified staff who have the Key are allowed to unlock it.

*If any of the above items are missing, please contact your reseller.*

## System Requirements

For best results, the following minimum requirements are recommended on any system used to configure and use the ShareCenter:

- Computer with: 1Ghz processor / 512 MB RAM / 200 MB available space / CD-ROM drive
- Internet Explorer version 6.0 or Mozilla Firefox 1.0 and above
- Windows® XP (with Service Pack 2) or Vista™
- 3.5" SATA Hard Drive(s)

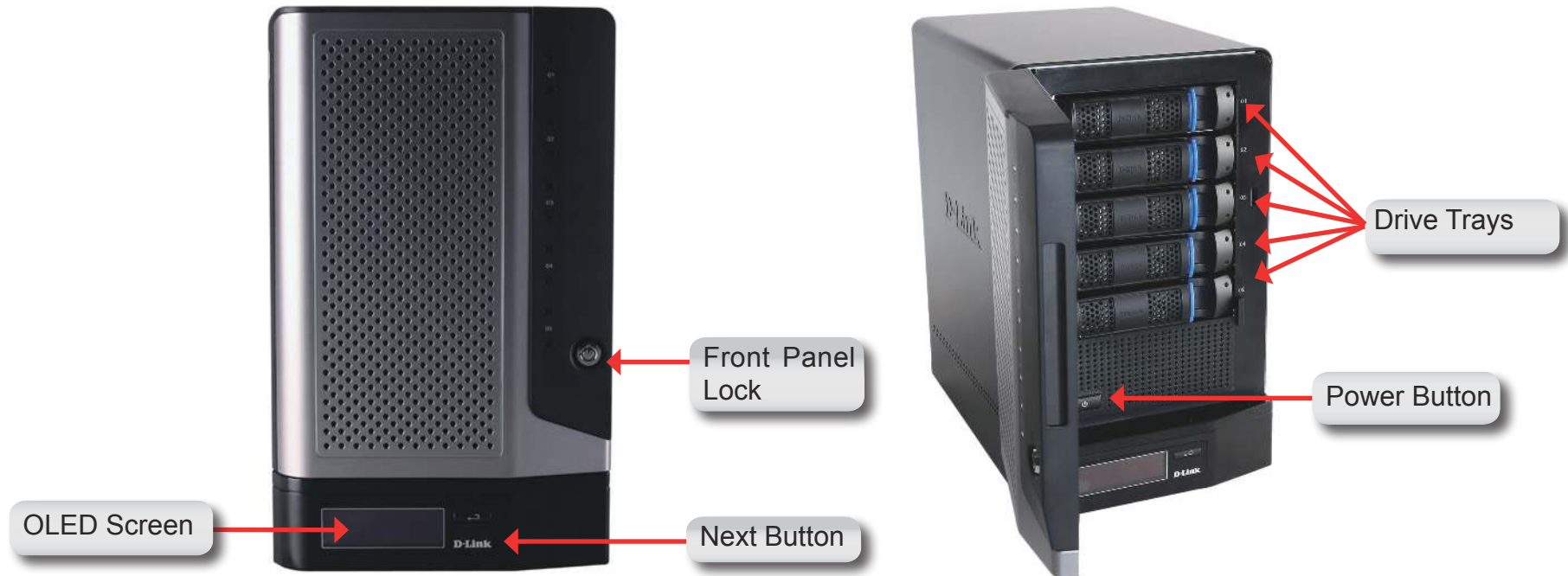
# Features

The ShareCenter Pro 1200 Unified network SMB packed with a wide variety of features geared toward the small and medium business environment. Some of these features are listed below:

- **Five** 3.5-inches SATA Standard Drive with capacity support up to 2 TB
- 2 Gigabit Ethernet ports
- 2 USB 2.0 ports
  - UPS, printer, and external storage support
- Concurrent iSCSI/NAS: Offering solutions for supporting both file sharing by NAS function and access performance by iSCSI block device
- Data Protection: Supports RAID 0/1/5/5+Spare/6/ JBOD and S.M.A.R.T. disk diagnostic.
- Ease of Use: iSCSI targets appear as a local drive on your client PC. Access NAS files via the easy-to-use web file manager.
- Accessibility: Share files across the network or over the Internet via FTP or the web file manager.
- Security: Create users, groups, and iSCSI targets with password authentication.
- Account management: Manage users/groups and Read/Write permission
- iSNS
- Virtual Disks
- Thin-provisioning
- DDNS
- Volume Snapshot
- Up to 64 iSCSI Targets
- SNMP (D-View 6.0 compatible)
- CHAP
- Link Aggregation
- Fail-over/Fail-back
- VLAN tag Support
- DFS Support
- AES Support
- FTP / FXP w/ TLS/SSL
- NFS
- ADS support
- Backup
  - Remote backup
  - Local backup
  - External backup
  - PC client to NAS backup
- Web File Manager
- Print server
- Scheduled downloads from web or FTP sites.
- Power management to conserve energy and extend hard drive life.
  - Schedule power on/off
  - Hard disk hibernation
  - SMART for hard disk health scan
  - D-Link Green Ethernet

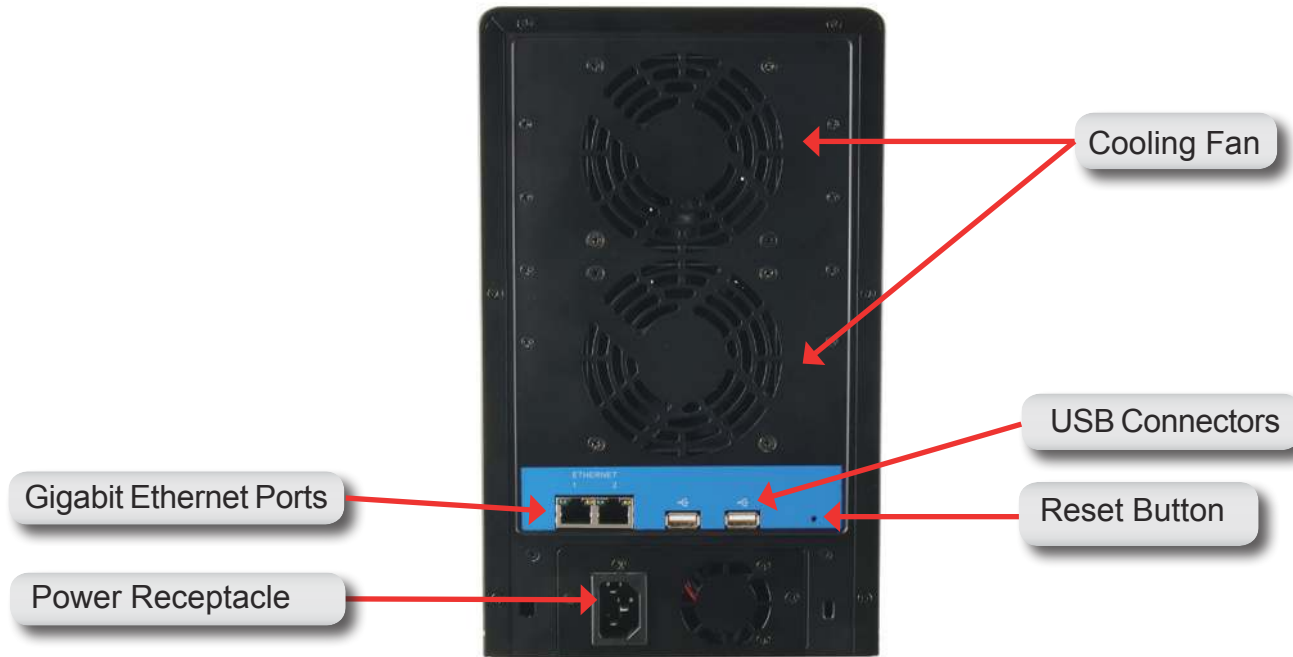
# Hardware Overview

## Front Panel



COMPONENT	DESCRIPTION
Front Panel Lock	Turn key to up position to unlock. Turn key to left position to lock.
OLED Screen	This screen displays detailed information about the following: System Information, HD Volume Information and Error Messages
Next Button	Use this button to display the System Information, HD Volume Information, and Error Messages on the OLED. Press the button once to alternate between the different Status screens.
Drive Trays	Use the screws to fasten the SATA hard drives with the trays and insert to the ShareCenter.
Power Button	Use this button to switch the device on or off. To switch on the device press the button once. To switch off the device hold the button down for 5 seconds.

## Rear Panel (Connections)



COMPONENT	DESCRIPTION
Gigabit Ethernet Port	Use the Gigabit Ethernet Port to connect the ShareCenter to the local network.
Power Receptacle	Connect the supplied power cord to the receptacle.
USB Connector	Two USB 2.0 (Type A) connectors. The USB Host ports are for Print Servers, USB memory disks or USB UPS monitoring.
Reset Button	Press this button for more than 5 seconds to reset the unit to factory defaults.
Cooling Fan	The cooling fan is used to cool the hard drives and feature speed control. When the unit is first powered on the fans rotate at a low speed and rotate at a high speed when the temperature rises above 36 °C.



# Using the OLED

The ShareCenter features an OLED that enables the administrator to easily view information about the ShareCenter. The OLED display screen displays the system information, hard drive volume information and error messages. The OLED has three different screens:

- **System Information-** This screen shows the following information:
  - The hostname of the ShareCenter
  - The IP address of the ShareCenter
  - The hard drive slots information
- **Hard Drive Volume information-** This screen shows the following information:
  - The percentage of space used on the hard drives.
- **Error Messages-** This screen shows error messages when there is any system failure.

Press the  button once to alternate between the different **Status** screens.

## LED Indicator Lights

On each hard drive tray there are 2 LED indicator lights. The meaning of the LED colors are shown below:

Hard Drive Tray LED Lights	Color	Status	Description
Top LED	Blue	Static	Disk is powered on and operational
Bottom LED	Green	Blinking	Disk is being accessed
	Red	Static	Disk has failed or is offline

# Installation

## Hardware Setup

Follow the instructions below to install a hard drive, connect to the network and power on the ShareCenter. Open the shipping carton for the ShareCenter and carefully remove and unwrap its contents. Follow the instructions below to setup the ShareCenter. If this is the first time using the ShareCenter or if a new hard disk is installed, use the Easy Search utility located on the Installation CD and follow the instructions for setting up, configuring and formatting the new drive.

To install ShareCenter on your local network, refer to the steps below:

1. Put a 3.5" SATA hard drive into a drive tray and use screws to fasten the hard drive with the tray. There are four holes for fastening the screws. Two holes are circled in red in the image, and the other two holes are on the other side of the drive tray.



2. Open the faceplate to access the drive bays.



3. Insert the tray into a bay.



4. Depress the blue button to lock it into place.



5. Connect an Ethernet cable to the available Ethernet port. This cable should connect the ShareCenter to your local network via a router or switch, or directly to a computer for configuration.



6. Connect the supplied power adapter to the power receptacle.



# Configuration

## Easy Search Utility

When first powered on, during the initial boot sequence, the ShareCenter will wait to be assigned an IP address via DHCP. If it does not receive a DHCP assigned IP address, by default it will have a self-assigned IP address in the range of 169.254.0.0 to 169.254.255.255. It is recommended to use the included D-Link Easy Search Utility when accessing and configuring the ShareCenter for the first time. If you want to change the IP address before logging in or are unable to connect to the ShareCenter IP address, you can use the Easy Search Utility provided on the product CD to locate the device on your network and make any needed changes.

- Network Storage Device** The Easy Search Utility displays any ShareCenter devices it detects on the network here.
- Refresh** Click **Refresh** to refresh the device list.
- Configuration** Click **Configuration** to access the Web based configuration of the ShareCenter.
- LAN** Configure the LAN Settings for the ShareCenter here.
- Apply** Click **Apply** to save changes to the LAN Settings.
- iSCSI Drive Mapping** Displays the available iSCSI targets on ShareCenter.
- Connect** Click **Connect** to connect to the iSCSI target.
- Management** Click **Management** to edit the information.
- Drive Mapping** Volumes available for mapping are displayed here.
- Available Drive Letters** Choose an available drive letter. Click **Connect** to map the selected volume. Click **Disconnect** to disconnect the selected mapped volume.
- About** Click **About** to view the software version of the Easy Search Utility.
- Exit** Click **Exit** to close the utility.



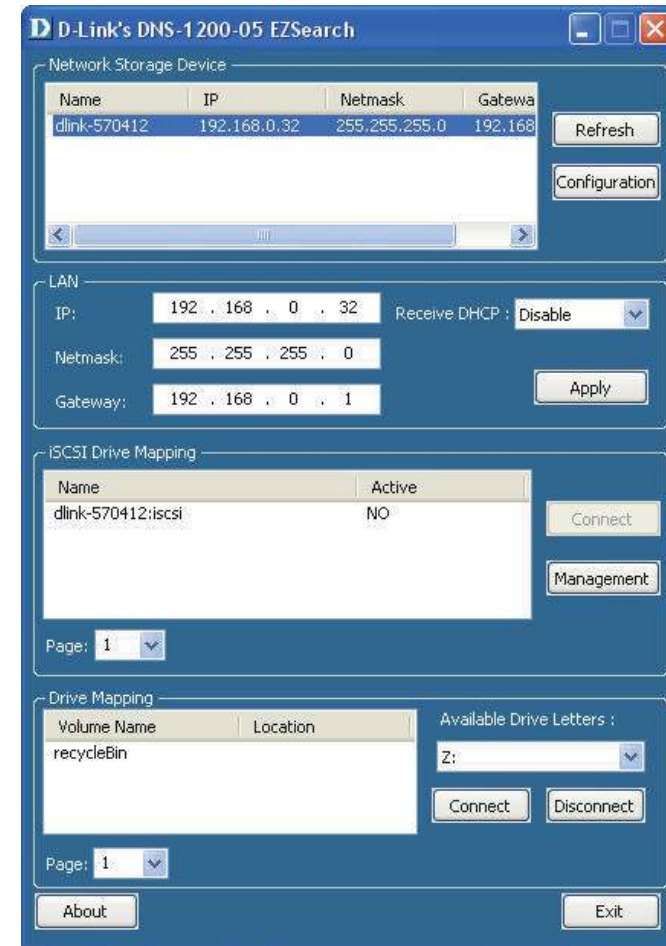
# Getting Started

To run the Easy Search Utility, insert the ShareCenter CD into your CD-ROM drive:



Select the listed ShareCenter and click the **Configuration** button. This will launch the computer's default web browser and direct it to the IP address listed for the device. Make sure the browser is not configured to use a proxy server.

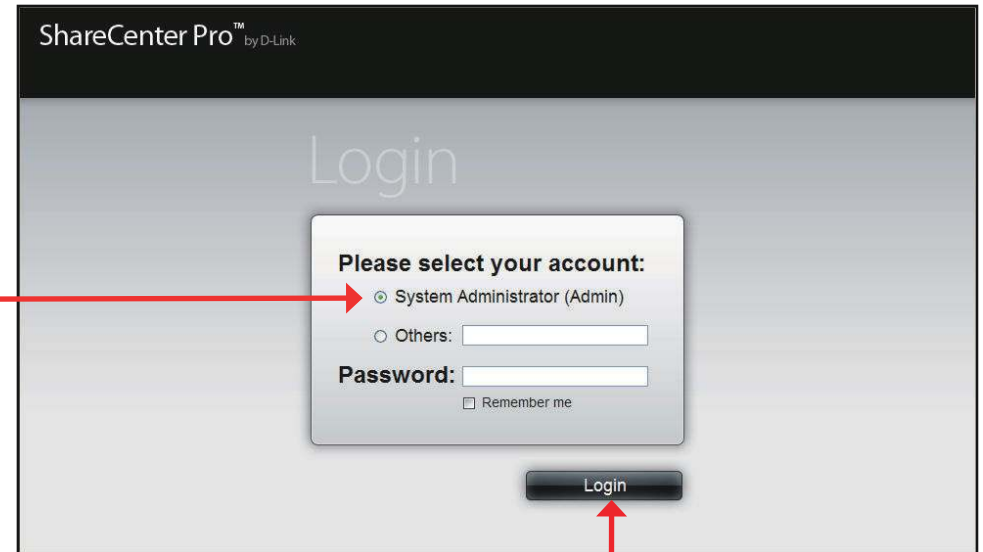
**Note:** The computer used to access the ShareCenter web-based configuration manager must be on the same subnet as the ShareCenter. If your network is using a DHCP server and the computer receives IP settings from DHCP server, the ShareCenter will automatically be in the same subnet.





The Login screen will appear:

Select **System Administrator** and leave the password field blank.



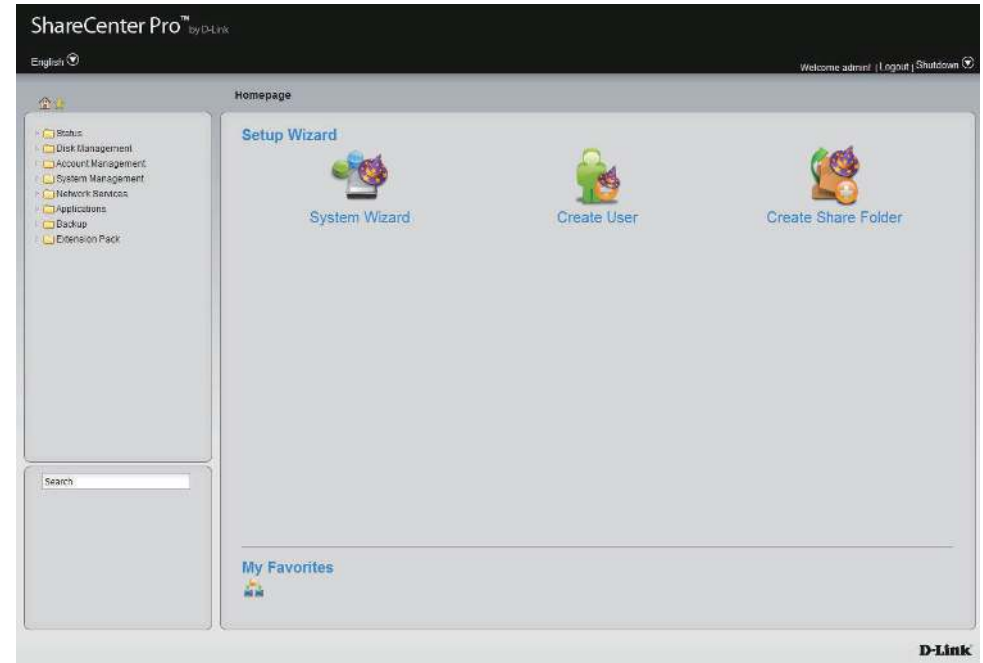
Click **Login**.

**Note:** The computer, used to access the ShareCenter web-based configuration, manager must be on the same subnet as the ShareCenter. If your network is using a DHCP server and the computer receives IP settings from DHCP, the ShareCenter will automatically be in the same subnet.

# Web UI

The ShareCenter Web UI defaults to the Create Volume page, if no volume has been created. Once a volume has been created, the web UI defaults to the Homepage (🏠). The main categories for configuration are located in the folders at the left of the page. Click the folder icon to see the categories of the folder. The categories available for configuration include:

- **Homepage-** Contains the System Wizard, Create User, Create Share Folder and My Favorites.
- **Status-** Contains the System Status and Hard Drive Status.
- **Disk Management-** Allows the ShareCenter administrator to create/configure a Volume, iSCSI Target, Virtual Volume, and perform Disk Diagnostic.
- **Account Management-** Allows the ShareCenter administrator to configure Admin Password, Users, Groups and Share Folders
- **System Management-** Contains Network, Time and Date, System Settings, Power Management, Email Alerts, Firmware Upgrade and Logs.
- **Network Services-** Contains File Sharing, Dynamic DNS, SNMP and Network Discovery Services.
- **Applications-** Contains Web File Manager and Download Management.
- **Backup-** Contains Volume Snapshot, Local Backup, Remote Backup and External Backup.
- **Extension Pack-** Allows the ShareCenter administrator to add more applications to the device.



These pages and their configuration options will be discussed in detail in the following pages of this manual.

**Note:** After logging in to the ShareCenter for the first time it is recommended to add a password to the admin account.

When prompted to create a volume:

Select the configuration type of the volume, **Standard**, **JBOD**, **RAID 0**, **RAID1**, **RAID5** or **RAID 6**.

Tick the corresponding check box to select the hard disk(s) in the array and spare.

**Create Volume**

**RAID Level**

- Standalone: Single hard drive.
- JBOD: Concatenate hard drives.
- RAID 0: Disk array with best performance.
- RAID 1: Mirror disk array.
- RAID 5: Disk array with single fault tolerance.
- RAID 6: Disk array with double fault tolerance.

**Disk(s)**

RAID 6 requires a minimum of 4 disks in the array.

Array	Spare	Disk	Size
<input type="checkbox"/>	<input type="checkbox"/>	Disk 1	596.17 GB
<input type="checkbox"/>	<input type="checkbox"/>	Disk 2	465.76 GB
<input type="checkbox"/>	<input type="checkbox"/>	Disk 3	279.46 GB
<input type="checkbox"/>	<input type="checkbox"/>	Disk 4	465.76 GB

Previous Next Cancel

Click **Next** to continue.

Select to enable or disable the auto-rebuild function of RAID 1, RAID 5, or RAID 6.

Click the **Enable** radio button to encrypt the volumes. Enter a password in the **Password** and **Confirm Password** fields.

Tick the **Auto Unlock** check box to automatically unlock the volume when the system starts. Tick the **USB Key** check box to save the password to a USB drive.

**Create Volume - Settings**

**Settings**

Auto-rebuild:  Enable  Disable

Encryption:  Enable  Disable

Password:

Confirm Password:

Auto Unlock

USB Key

- Auto Unlock: Encrypted volumes are automatically unlocked during system start-up.
- USB Key: Store the password on a USB drive. This can be used to unlock encrypted volumes in the future. When USB drives are connected to the NAS, the system checks the password on it and unlocks the corresponding encrypted volume with that password. To use this feature, you must connect the USB drive before creating the volume.

Previous Apply Cancel

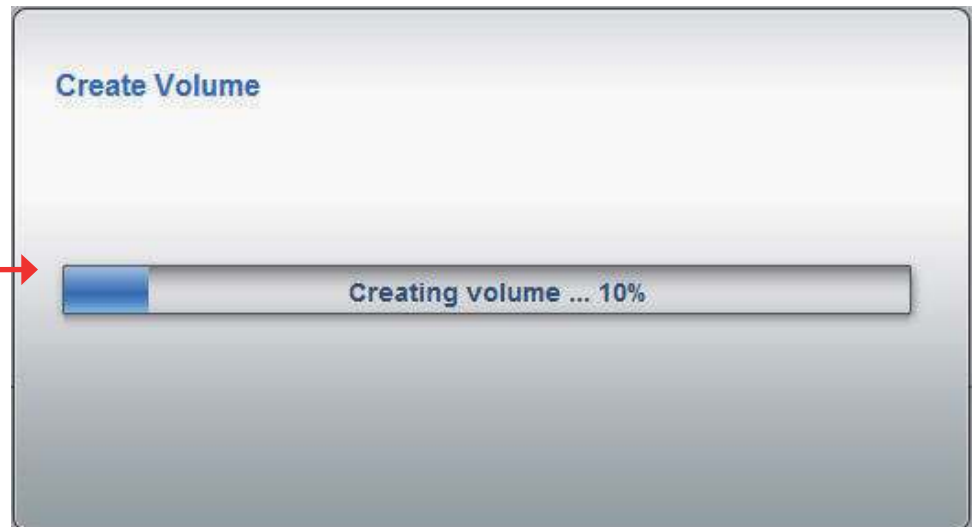
Click **Apply** to continue.

A warning message appears before starting to create the volume.

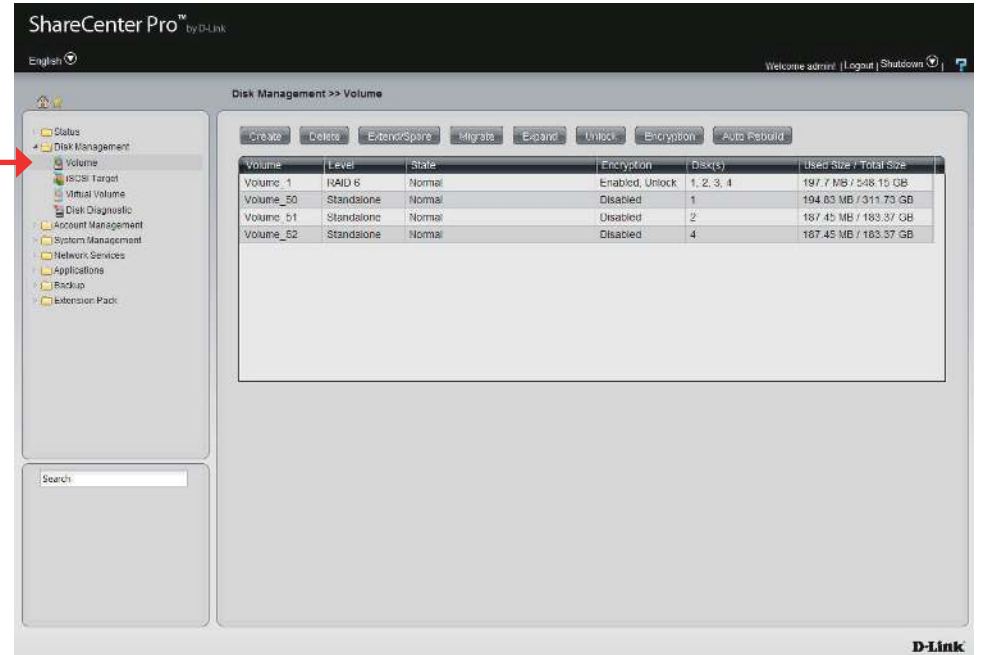


Click **Yes** to continue.

The volume is being created. The status bar displays the percentage of completion in real time.





Once the volume is created, the Volume page opens to show the information.

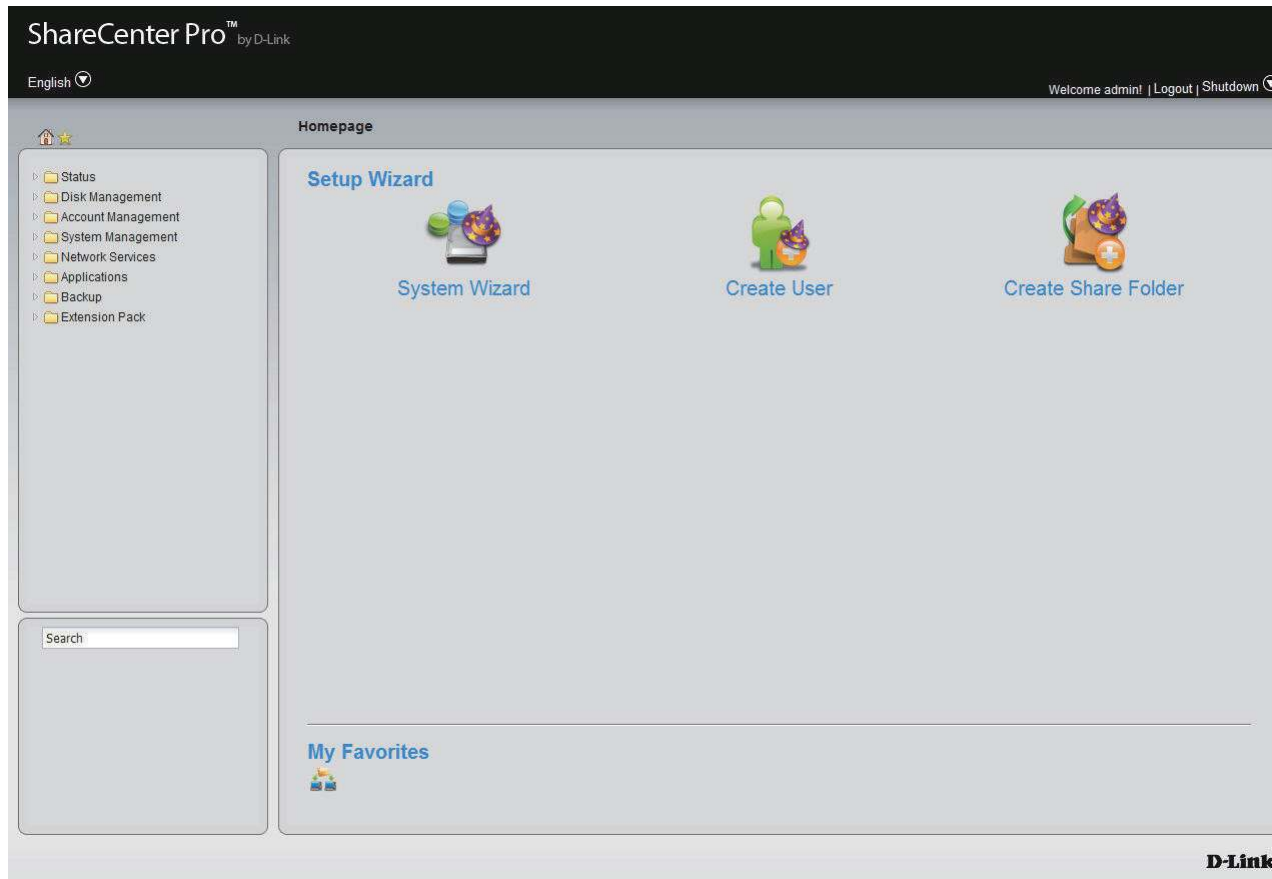


The screenshot displays the 'Disk Management >> Volume' page in the ShareCenter Pro interface. The left sidebar contains a navigation menu with 'Volume' selected. The main content area features a table of volumes with the following data:

Volume	Level	State	Encryption	Disk(s)	Used Size / Total Size
Volume_1	RAID 6	Normal	Enabled, Unlock	1, 2, 3, 4	197.7 MB / 548.15 GB
Volume_50	Standalone	Normal	Disabled	1	194.83 MB / 311.73 GB
Volume_51	Standalone	Normal	Disabled	2	187.45 MB / 183.37 GB
Volume_52	Standalone	Normal	Disabled	4	187.45 MB / 183.37 GB

# Homepage

This page contains the System Wizard, Create User, Create Share Folder and My Favorite. Click the  (Homepage) icon to see the subcategories. This window provides quick access to the Setup Wizard and the My Favorites section. Users can add the most frequently used functions to My Favorites and quickly access these functions by clicking the icon or selecting from the  (My Favorites) drop-down list.



## System Wizard

The ShareCenter has a System Wizard that allows you to quickly configure some of the basic device settings. Click the **System Wizard** icon to start the Setup Wizard.

When running the ShareCenter System Wizard, the welcome screen details the five steps of the wizard.



Click **Next** to continue.



This window can configure the LAN 1 settings.

The image shows a 'System Wizard' dialog box with a title bar containing a close button. The dialog is divided into three sections: 'LAN 1', 'VLAN', and 'Port Bonding'.  
1. 'LAN 1' section: Contains radio buttons for 'DHCP Client' (selected) and 'Static IP'. Below are input fields for 'IP Address' (192.168.0.32), 'Subnet Mask' (255.255.255.0), 'Jumbo Frame' (Disabled), and 'Gateway' (192.168.0.1).  
2. 'VLAN' section: Contains radio buttons for 'VLAN' (Enable and Disable, with 'Disable' selected) and a 'VLAN ID' input field containing '0'.  
3. 'Port Bonding' section: Contains radio buttons for 'Port Bonding' (Enable and Disable, with 'Disable' selected) and an 'Option' dropdown menu set to 'Round Robin'.  
At the bottom are three buttons: 'Previous', 'Next', and 'Cancel'. A red arrow points from the 'Next' button to a callout box below.

Click **Next** to continue.

This window can configure the LAN 2 settings.



The image shows a 'System Wizard' window with a dark header and a light body. The title bar contains the text 'System Wizard' and a close button. The main content area is divided into two sections: 'LAN 2' and 'VLAN'. Under 'LAN 2', there are two radio buttons: 'DHCP Client' (selected) and 'Static IP'. Below these are five input fields: 'IP Address' (192.168.1.32), 'Subnet Mask' (255.255.0.0), 'Jumbo Frame' (a dropdown menu set to 'Disabled'), and 'Gateway' (192.168.1.1). The 'VLAN' section has two radio buttons: 'Enable' and 'Disable' (selected). Below them is a 'VLAN ID' input field containing the number '0'. At the bottom of the window are three buttons: 'Previous', 'Next', and 'Cancel'. A red arrow points from the 'Next' button to a callout box below it.

Click **Next** to continue.

Enter the host name of the ShareCenter.

Enter the primary and secondary DNS server address in the fields.

Use the drop-down menu to select the LAN interface.

The image shows a 'System Wizard' window with three sections: 'Host Name', 'DNS Server', and 'Default Gateway'. The 'Host Name' section has a text input field containing 'dlink-570412'. The 'DNS Server' section has two text input fields: 'Primary DNS' containing '192.168.69.1' and 'Secondary DNS' which is empty. The 'Default Gateway' section has a drop-down menu with 'LAN 1' selected. At the bottom of the window are three buttons: 'Previous', 'Next', and 'Cancel'. A red arrow points from the 'Next' button to a callout box below the window.

Click **Next** to continue.



This window can enable or disable various the file sharing method.

Click **Next** to continue.

Select the configuration type of the volume, **Standard**, **JBOD**, **RAID 0**, **RAID1**, **RAID5** or **RAID 6**.

Tick the corresponding check box to select the hard disk(s) in the array and spare.

**System Wizard**

**RAID Level**

- Standalone: Single hard drive.
- JBOD: Concatenate hard drives.
- RAID 0: Disk array with best performance.
- RAID 1: Mirror disk array.
- RAID 5: Disk array with single fault tolerance.
- RAID 6: Disk array with double fault tolerance.

**Disk(s)**

RAID 5 requires a minimum of 3 disks in the array.

Array	Spare	Disk	Size
<input type="checkbox"/>	<input type="checkbox"/>	Disk 1	596.17 GB
<input type="checkbox"/>	<input type="checkbox"/>	Disk 2	465.76 GB
<input type="checkbox"/>	<input type="checkbox"/>	Disk 3	279.46 GB
<input type="checkbox"/>	<input type="checkbox"/>	Disk 4	465.76 GB

Buttons: Previous, Next, Cancel

Click **Next** to continue.

Select to enable or disable the auto-rebuild function of RAID 1, RAID 5, or RAID 6.

Click the **Enable** radio button to encrypt the volumes. Enter a password in the **Password** and **Confirm Password** fields.

Tick the **Auto Unlock** check box to automatically unlock the volume when the system starts. Tick the **USB Key** check box to save the password to a USB drive.



The image shows a 'System Wizard' dialog box with a 'Settings' section. It contains radio buttons for 'Auto-rebuild' and 'Encryption', both currently set to 'Disable'. There are two text input fields for 'Password' and 'Confirm Password'. Below these are checkboxes for 'Auto Unlock' and 'USB Key', both of which are currently unchecked. At the bottom of the dialog are three buttons: 'Previous', 'Next', and 'Cancel'. A red arrow points from the 'Next' button to a callout box below the dialog.

Click **Next** to continue.

This window displays the information you configured in System Wizard.

The image shows a 'System Wizard' window with a dark title bar and a close button. The window is divided into sections for 'LAN 1' and 'LAN 2'. Each section lists configuration parameters and their values. At the bottom, there is a 'Global Settings' section with three buttons: 'Previous', 'Apply', and 'Cancel'. A red arrow points from the text box on the left to the 'Apply' button.

LAN 1	
Network Type:	Static IP
IP Address:	192.168.0.32
Subnet Mask:	255.255.255.0
Jumbo Frame:	1500
Gateway:	192.168.0.1
VLAN:	Disable
Port Bonding:	Disable

LAN 2	
Network Type:	DHCP Client
IP Address:	192.168.1.32
Subnet Mask:	255.255.255.0
Jumbo Frame:	1500
Gateway:	192.168.1.1
VLAN:	Disable

Global Settings

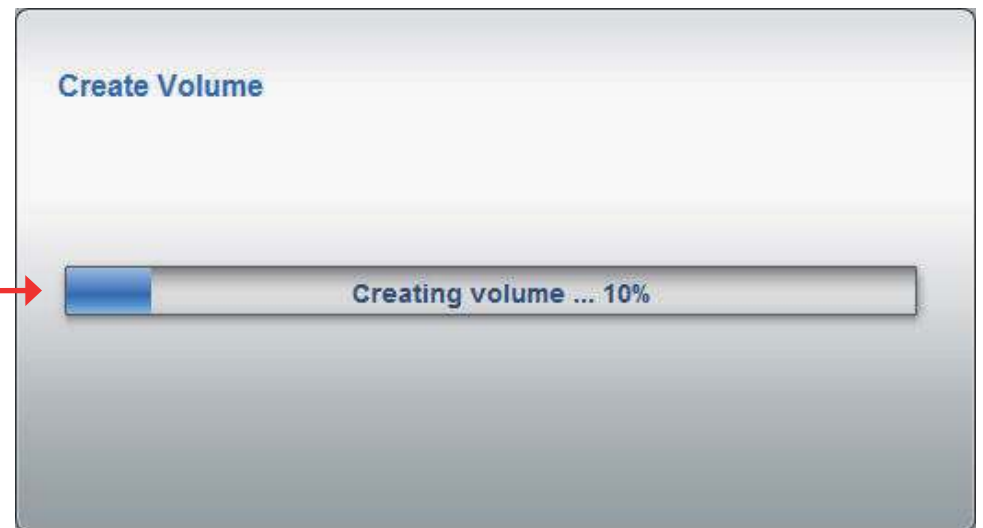
Previous Apply Cancel

Click **Apply** to continue.

A warning message appears before starting to create the volume.



The volume is being created. The status bar displays the percentage of completion in real time.





The ShareCenter is saving the settings. After saving the settings, the Homepage window will appear.



## Create User

The Create User wizard icon directly links to the Create User function.

Click the Create User icon in the Homepage window and the Create User window appears.



Click **Next** to continue.

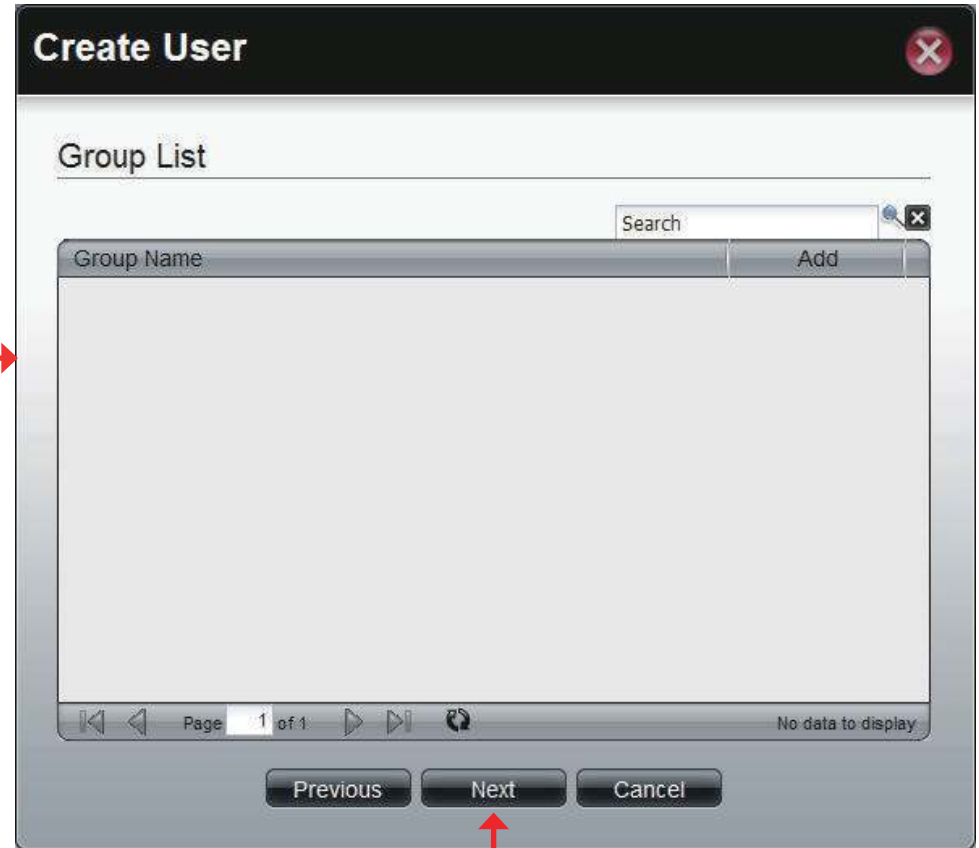
Enter a name in **User Name**, and a password in **Password** and **Confirm Password**.

If setting a specific storage quota for the user, tick the **Set Quota** check box and enter the storage quota in megabyte (MB).

The image shows a 'Create User' dialog box with a title bar containing a close button (X). The dialog is divided into two sections: 'User Information' and 'Quotas'. Under 'User Information', there are three text input fields labeled 'User Name:', 'Password:', and 'Confirm Password:'. Under 'Quotas', there is a checkbox labeled 'Set Quota'. Below the checkbox is a text input field labeled 'Quotas:' followed by a small input field and the unit '.MB'. At the bottom of the dialog, there are three buttons: 'Previous', 'Next', and 'Cancel'. A red arrow points from the 'Next' button to a callout box below it.

Click **Next** to continue.

Select a group from the list. If there is no entry in the list, you can go to Account Management >> User to update the information after a group has been created.



Click **Next** to continue.

Select a share folder from the list. If there is no entry in the list, you can go to **Account Management > User** to update the information after a share folder is created.



Click **Next** to continue.

This window displays the information that has been configured.



The 'Create User' dialog box features a 'Summary' section with a table of configuration options. The table has two columns: 'Options' and 'Settings'. The 'User Name' is set to 'users' and the 'Quotas' are set to '800 MB'. Other options like 'Group Name', 'Share Folder (RO)', 'Share Folder (RW)', and 'Share Folder (Deny)' are currently empty. At the bottom of the dialog are three buttons: 'Previous', 'Apply', and 'Cancel'. A red arrow points from the 'Apply' button to a callout box below it.

Options	Settings
User Name	users
Group Name	
Quotas	800 MB
Share Folder (RO)	
Share Folder (RW)	
Share Folder (Deny)	

Click **Apply** to save the settings.

## Create Share Folder

The Create Share Folder wizard icon directly links to the Create Share Folder function.

Click the Create Share Folder icon in the Homepage window and the Create Share Folder window appears.



Click **Next** to continue.

Click the **Select Path** field to choose the path of a folder.



Click the radio buttons to configure the folder options.

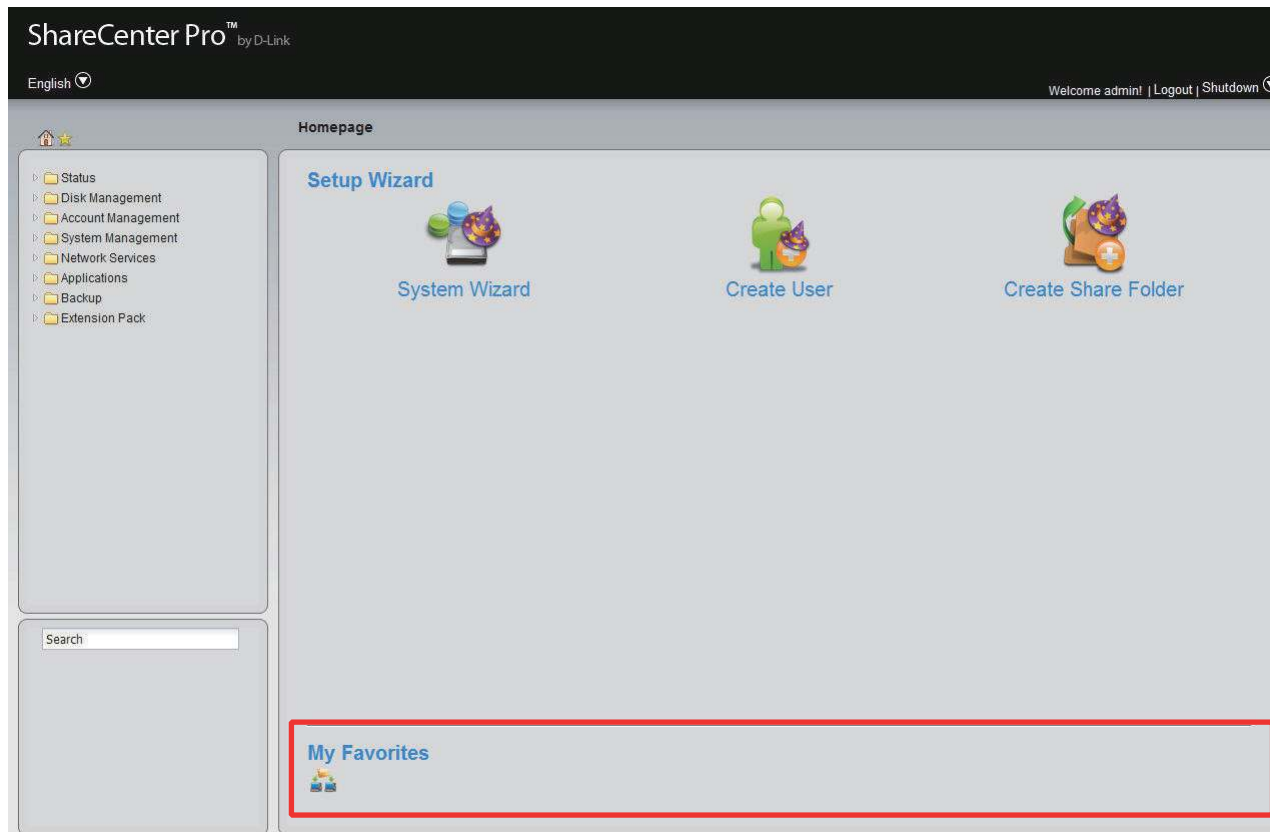
If setting a specific storage quota for the share folder, tick the **Set Quota** check box and enter the storage quota in megabyte (MB).

Click **Next** to continue.



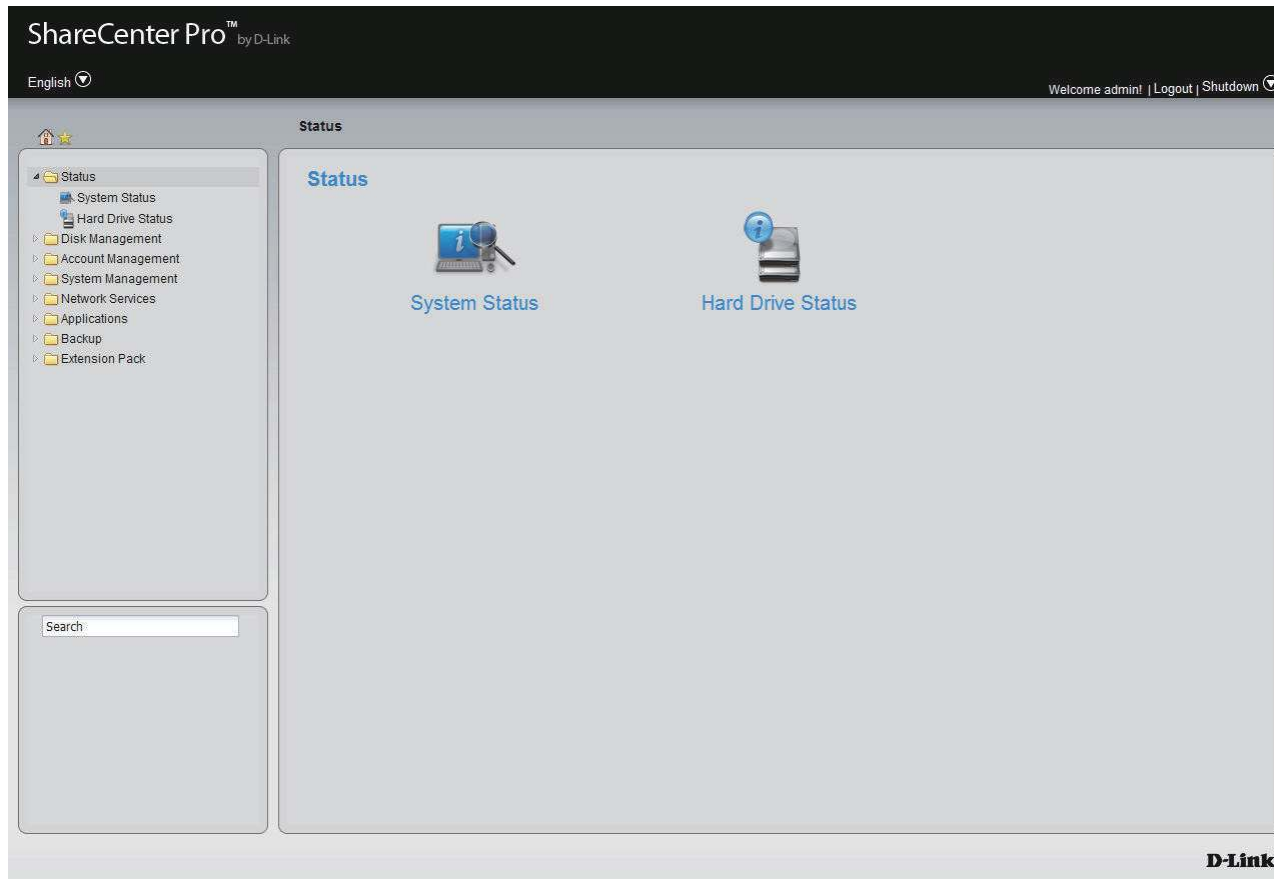
# My Favorites

Click the  (Homepage) icon to see the My Favorites field at the lower half of the window. To add a category in My Favorites, click an arrow key next to a folder icon to display all categories within the folder in the left window, and drag the category to the My Favorites field. To delete a category in My Favorites, drag the category in My Favorites field to the left window. Once the category is added to My Favorites, click the  icon to see the category in the list. Click to directly link to the window of the category.



# Status

This folder contains the System Status and Hard Drive Status. Click the folder to see the subcategories.



# System Status

Click the System Status icon in the Status window or the System Status link in the left window to view System Status.

- Basic Information** Displays the model name, current firmware version and current temperature of the ShareCenter.
- LAN Info** Displays the local network settings of the ShareCenter
- Network Settings** Displays the host name, and DNS information of the ShareCenter
- Date and Time** Displays the current date and time settings of the ShareCenter.
- USB Disk Information** Displays information for a connected USB printer, memory disk or UPS. Click the **Unmount** button to remove the device from the ShareCenter.

<b>Basic Information</b>	
Model Name:	ShareCenter Pro 1200
Current Firmware Version:	1.00b12
System Temperature:	28°C/82°F
<b>LAN 1 Information</b>	
MAC Address:	00:60:42:57:04:12
IP Address:	192.168.0.32
Subnet Mask:	255.255.255.0
Gateway:	192.168.0.1
<b>LAN 2 Information</b>	
MAC Address:	00:60:42:57:04:13
IP Address:	192.168.1.32
Subnet Mask:	255.255.255.0
Gateway:	192.168.1.1
<b>Network Settings</b>	
Host Name:	dlink-570412
Primary DNS:	192.168.69.1
Secondary DNS:	
Default Gateway:	192.168.0.1
<b>Date and Time</b>	
Current Time:	01:19:27 02/01/2010
Current Time Zone:	(GMT) Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London
Up Time:	0 day(s) 2 hour(s) 30 minute(s)
<b>USB Disk Information (Right Port)</b>	
Manufacturer:	USB 2.0
Product:	Flash Disk
Size:	0.98 GB
Detail:	USBDisk1_1 File System: VFAT Unused size: 181.05 MB

## Hard Drive Status

This window displays the Vendor, Model name, Temperature, and Size of the Hard Disks installed in the ShareCenter, along with the slot they are installed in. You can view the S.M.A.R.T. information for each hard disk installed in the ShareCenter (if the hard disk supports the S.M.A.R.T. feature).

**Hard Drive Status** To see the S.M.A.R.T. information of a hard disk, select a hard disk and click the **Details** button.

Slot	Vendor	Model	Temperature (*C/*F)	Size
1	Western Digital	WDC WD6402AAEX...	28/82	596.17 GB
2	Hitachi	Hitachi HDP725050...	27/81	465.76 GB
3	Western Digital	WDC WD3000HLFS...	24/75	279.46 GB
4	Western Digital	WDC WD5000AVJS...	28/82	465.76 GB
5	-	-	-	-

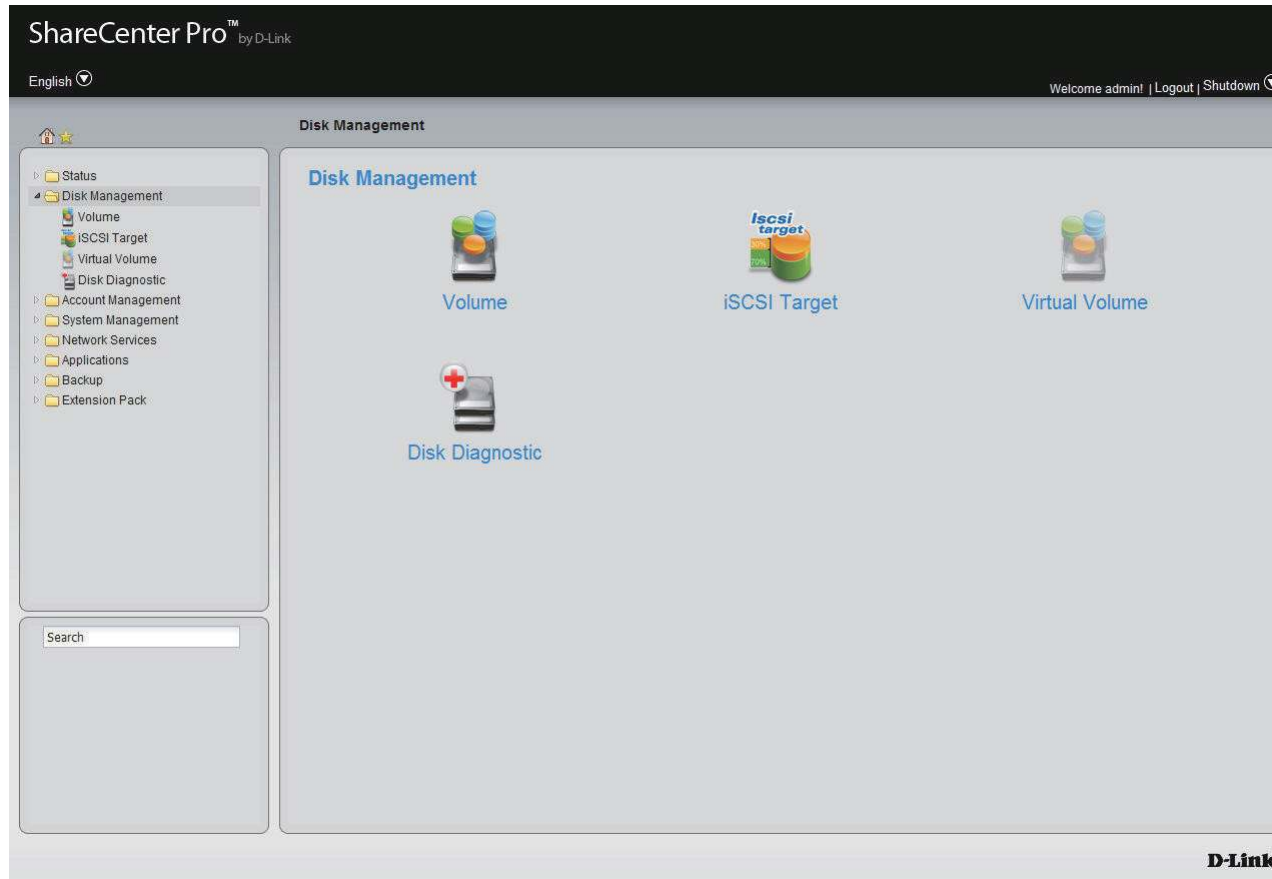
**S.M.A.R.T. Information** The S.M.A.R.T. test results for the selected hard drive is displayed. Click the **Close** button to go back to the Hard Drive Status window.

Name	Now	Worst	Thresh	Value
Raw Read Error Rate	200	200	41	0
Spin Up Time	175	173	17	4208
Start Stop Count	100	100	0	185
Reallocated Sector Ct	200	200	140	0
Seek Error Rate	200	200	0	0
Power On Hours	100	100	0	297
Spin Retry Count	100	100	0	0
Calibration Retry Count	100	253	0	0
Power Cycle Count	100	100	0	95
Power-Off Retract Count	200	200	0	85
Load Cycle Count	200	200	0	99
Temperature Celsius	91	85	0	56
Reallocated Event Count	200	200	0	0
Current Pending Sector	200	200	0	0
Offline Uncorrectable	200	200	0	0
UDMA CRC Error Count	200	200	0	0
Multi Zone Error Rate	200	200	0	0

Close

# Disk Management

This folder contains the Volume, iSCSI Target, Virtual Volume and Disk Diagnostic. Click the folder to see the subcategories.



# Volume

Click the **Volume** icon in the Disk Management window or the Volume link in the left window to view and edit the volumes.

The ShareCenter supports six different volume configuration types: Standalone, JBOD, RAID 0, RAID 1, RAID 5 and RAID 6.

Volume	Level	State	Encryption	Disk(s)	Used Size / Total Size
Volume_1	RAID 5	Normal	Enabled, Unlock	1, 2, 3, Spare (4)	197.7 MB / 548.15 GB
Volume_50	Standalone	Normal	Disabled	1	194.83 MB / 311.73 GB
Volume_51	Standalone	Normal	Disabled	2	187.45 MB / 183.37 GB

**Create** Click this button to create a new volume.

**Delete** Click this button to delete a volume.

**Extend/Spare** Click to enlarge a volume by replacing one of the existing hard drives with a larger capacity hard drive, or set a spare for a volume

**Migrate** Click to change the RAID level of a volume.

**Expand** Click to enlarge a volume by replacing one of the existing hard drive with a larger capacity hard drive.

**Unlock** Click to unlock an encrypted volume

**Encryption** Click to configure the encryption settings of the volume.

**Auto Rebuild** Click to enable or disable the auto-rebuild function.

## Create a new Volume

Click the **Create** button to see the following window.

- Standalone** Standalone requires only one hard drive in the array. Each hard drive is its own volume.
- JBOD** JBOD requires a minimum of two hard drives, concatenates the hard drives in a linear fashion, and creates one large volume geared towards maximum available space.
- RAID 0** RAID requires a minimum of two hard drives. The data is stored in a striped fashion and geared towards maximum available space and performance.  
CAUTION: RAID 0 does not provide data redundancy.
- RAID 1** RAID 1 requires a minimum of two hard drives and mirrors the hard drives for data redundancy.
- RAID 5** RAID 5 requires a minimum of three hard drives and provides data striping with distributed parity.
- RAID 6** RAID 6 requires a minimum of four hard drives, and stripes data and double-parity information across all of the member drives.
- Array** Tick the check box to select the corresponding hard drive to be part of the volume.
- Spare** Tick the check box to select the corresponding hard drive as a spare for the volume.

**Create Volume**

**RAID Level**

- Standalone Single hard drive.
- JBOD Concatenate hard drives.
- RAID 0 Disk array with best performance.
- RAID 1 Mirror disk array.
- RAID 5 Disk array with single fault tolerance.
- RAID 6 Disk array with double fault tolerance.

**Disk(s)**

RAID 6 requires a minimum of 4 disks in the array.

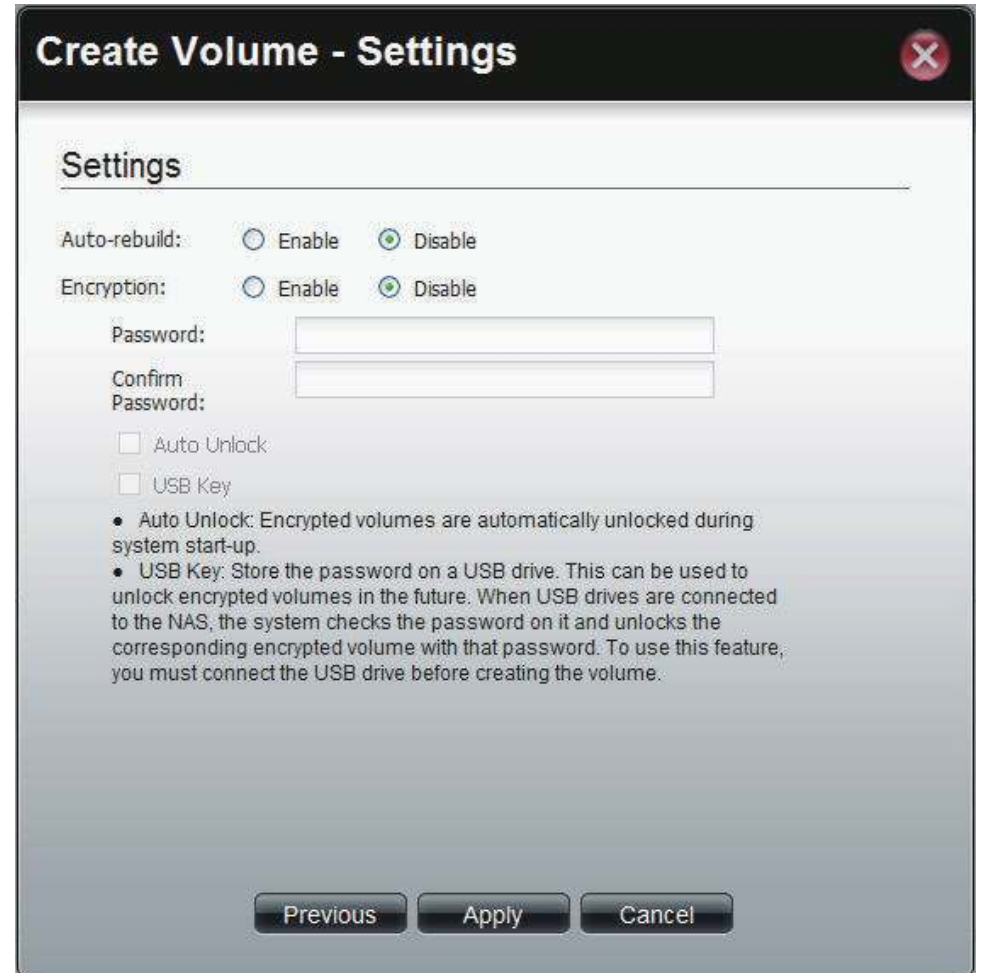
Array	Spare	Disk	Size
<input type="checkbox"/>	<input type="checkbox"/>	Disk 1	596.17 GB
<input type="checkbox"/>	<input type="checkbox"/>	Disk 2	465.76 GB
<input type="checkbox"/>	<input type="checkbox"/>	Disk 3	279.46 GB
<input type="checkbox"/>	<input type="checkbox"/>	Disk 4	465.76 GB

Previous Next Cancel

Click **Next** to continue.

- Auto-rebuild** Click the radio buttons to enable or disable auto-rebuild setting. Only RAID 1, RAID 5 and RAID 6 can configure this setting.
- Encryption** Click the radio buttons to enable or disable encryption settings.
- Password** When encryption is enabled, enter a password in the field. A minimum of 5 digits is required.
- Confirm Password** Retype the password in the field.
- Auto Unlock** Tick the check box to automatically unlock the volume when the system starts.
- USB Key** Tick the check box to save the password to a USB drive.

Click **Apply** to continue.



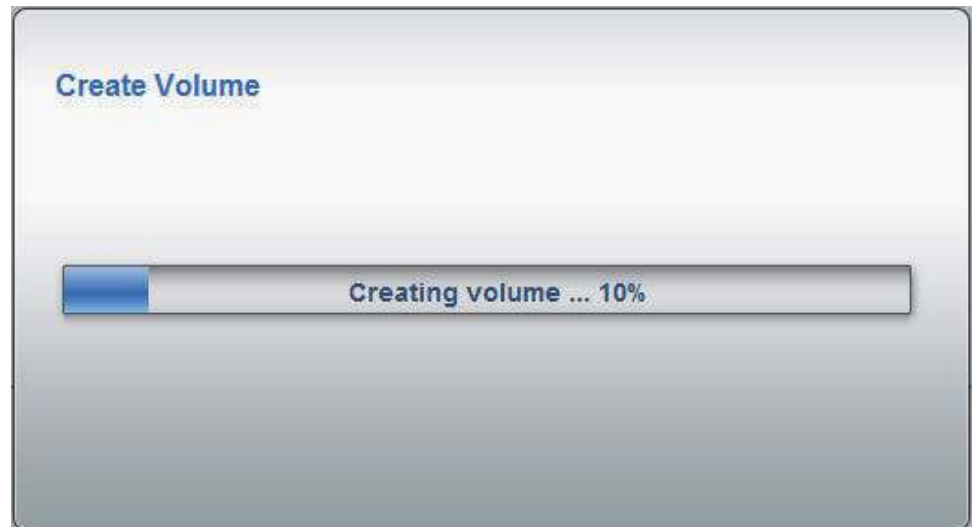


A warning message appears before starting to create the volume.

Click **Yes** to continue.



The volume is being created. The status bar displays the percentage of completion in real time. Once the volume is created successfully, the Volume window appears.

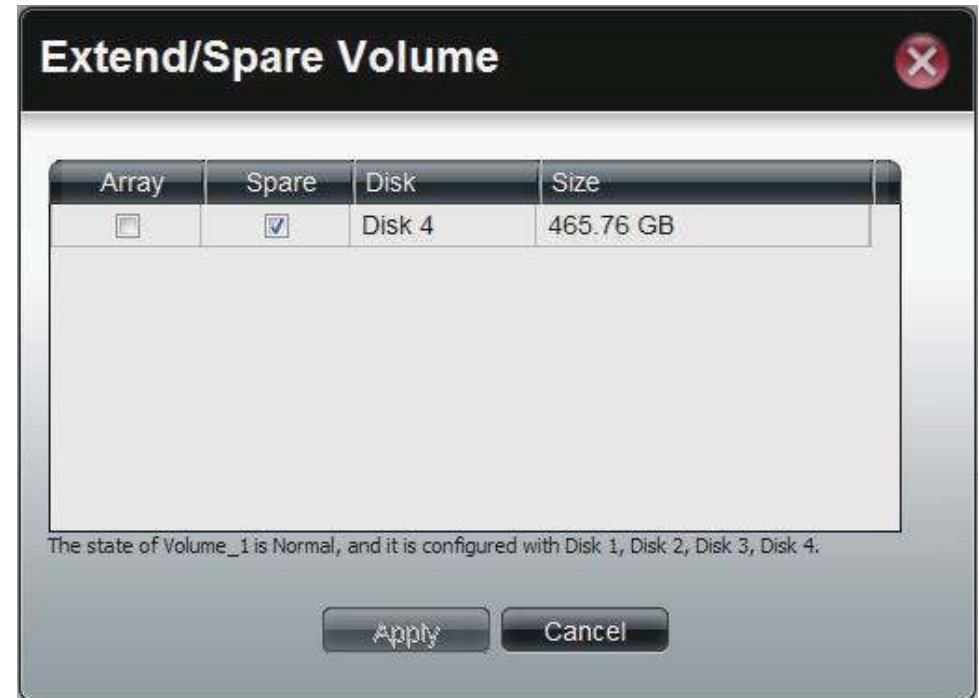


## Extend/Spare a Volume

Click a volume and the **Extend/Spare** button to see the following window.

- Array** Tick the check box to extend the volume.
- Spare** Tick the check box to select the disk to be a spare disk.
- Disk** Displays the configured disk number.
- Size** Displays the size of the hard disk.

Click **Apply** to save the settings.

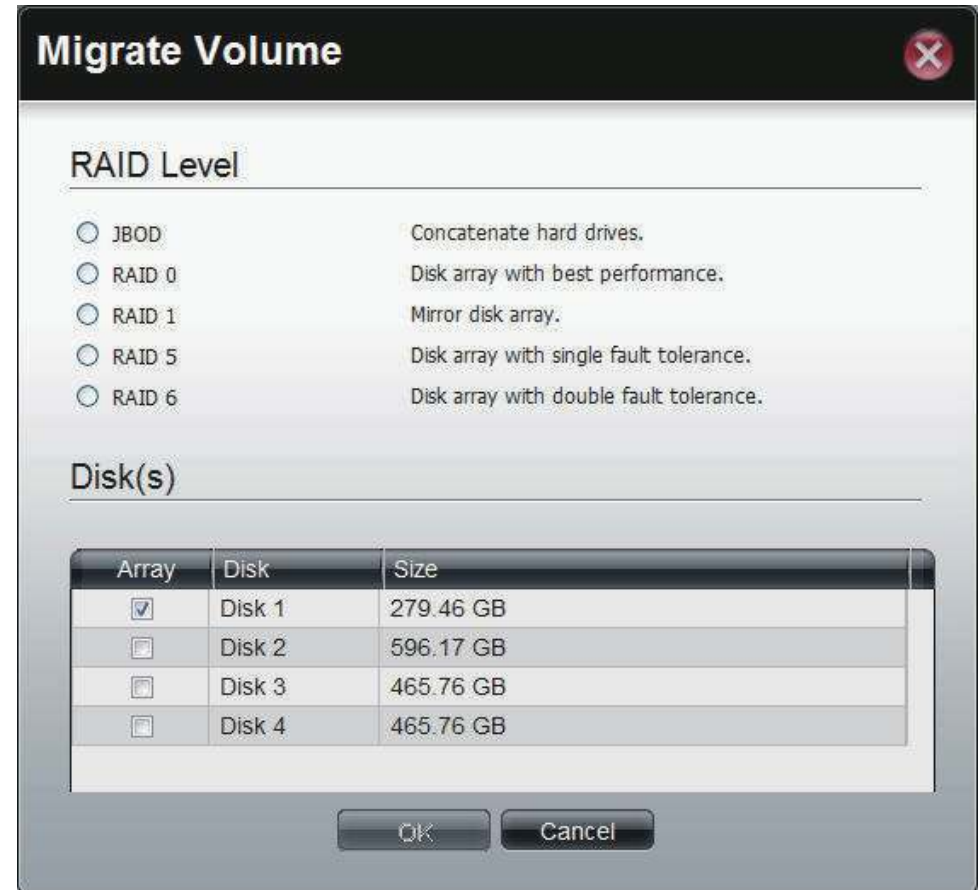


## Migrate a Volume

Click a volume and the **Migrate** button to see the following window.

The window allows you to change the RAID level of the volume. Choose a RAID level and select the hard disks to be used in the migration.

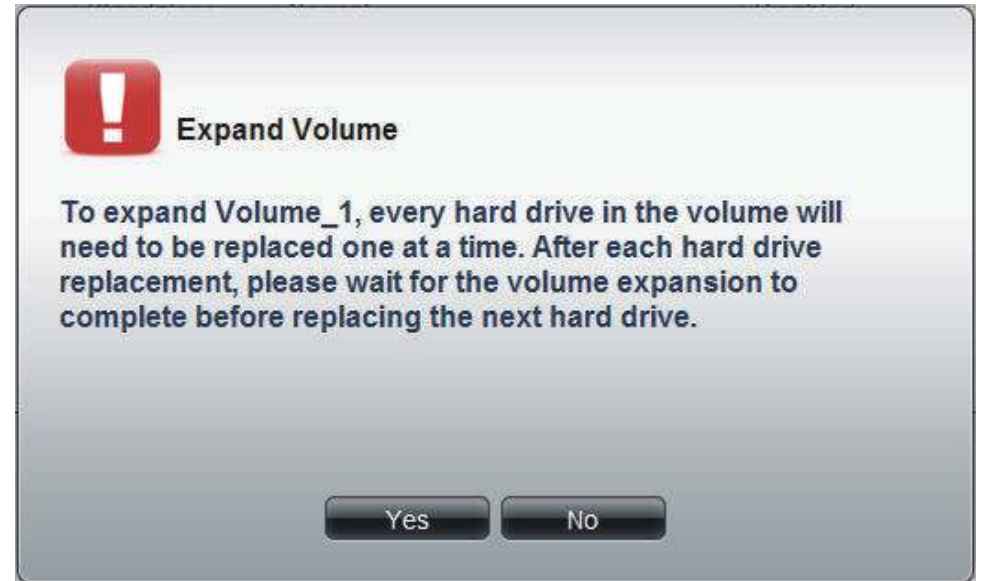
Click **OK** to save the settings.



## Expand a Volume

Click the **Expand** button to see the following window.

Click **Yes** to continue.



Follow the instruction in the State column to expand the volume.

Volume	Level	State	Encryption	Disk(s)	Used Size / Total Size
Volume_1	RAID 1	Expand, insert a larger disk now.	Enabled, Unlock	3	191.05 MB / 274.08 GB

## Change the Encryption Settings

Click the **Encryption** button to see the following window.

The Encryption window appears and there are four tabs in the window. This window displays the settings in the **Change** tab.

- Change Password** Tick the check box and enter the new password in **New Password** and **Confirm Password** fields.
- Auto Unlock** Tick the check box to automatically unlock the volume when the system starts.
- USB Key** Tick the check box to save the password to a USB drive.

Click **Apply** to save the settings.



This window displays the setting in the **Save** tab.

Click **Save** to save the password to local.



This window displays the settings in the **Load** tab.

**Load password from local** Click the Browse button to locate the path of the password that is saved to the local computer.

Click the **Load** button to get the password from local.



This window displays the setting in the **Mail** tab.

Click **Mail** to send the password to administrator.



## iSCSI Target

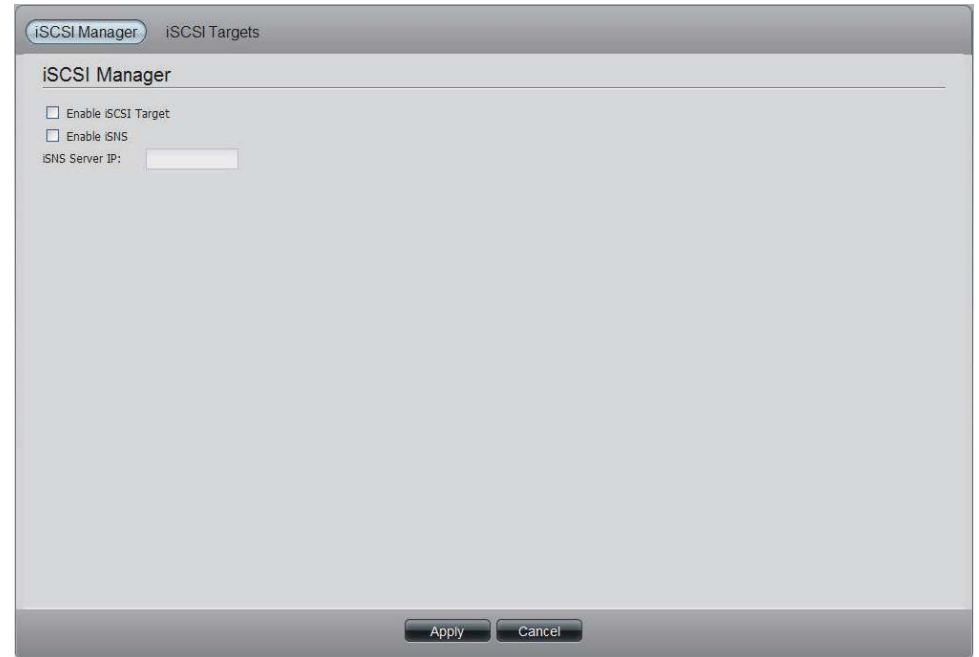
Click the **iSCSI Target** icon in the Disk Management window or the iSCSI Target link in the left window to configure the iSCSI target.

## iSCSI Manager

Click the **iSCSI Manager** tab to see the following window.

- Enable iSCSI Target** Tick the check box to enable the iSCSI function.
- Enable iSNS** Tick the check box to enable the Internet Storage Name Service function.
- iSNS Server IP** Enter the iSNS server IP address in the field.

Click **Apply** to save the settings.





## iSCSI Targets

Click the **iSCSI Targets** tab to see the following window. An iSCSI target shares its storage capacity with the iSCSI initiator.

- Create** Click the button to add a new target.
- Edit** Select a target and click the button to change the settings.
- Delete** Select a target and click the button to remove the target from the list.



Click the **Create** button to see this window.

- Pre-allocate** Click the **Yes** radio button to reserve a certain amount of capacity on the target in advance. Click **No** that enables thin provisioning to provide just enough storage space for immediate use.
- Name** Enter a name in the text box to identify the new iSCSI Target.
- Volume** Use the drop-down list to select the volume for the target.
- Size** Specify the size of the iSCSI target in gigabytes.

Click **Next** to continue.

The CHAP Settings window appears.

- Enable** If the iSCSI initiator supports Challenge Handshake Authentication Protocol, click the **Yes** radio button. Click the **No** radio button to disable.
- Name** If enabling CHAP, enter the CHAP username in the field.
- Password** If enabling CHAP, enter the CHAP password in the field.

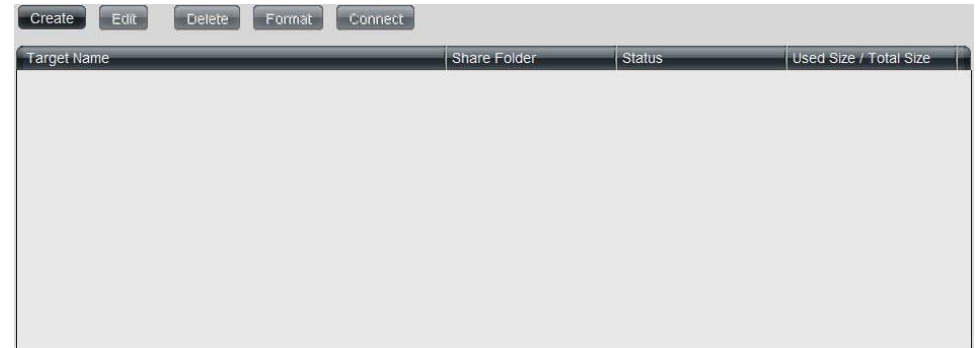
Click **Apply** to save the settings.

The screenshot shows a window titled "Create iSCSI Target" with a close button in the top right corner. Below the title bar is a section titled "CHAP Settings". Under this section, there are three rows of controls: "Enable:" with two radio buttons, "Name:" with a text input field, and "Password:" with a text input field. The "No" radio button is selected. At the bottom of the window, there are three buttons: "Previous", "Apply", and "Cancel".

## Virtual Volume

Click the **Virtual Volume** icon in the Disk Management window or the Virtual Volume link in the left window to configure the virtual volume. The Virtual Volume allows the ShareCenter to expand its iSCSI capacity. By utilizing the built-in iSCSI initiator, the ShareCenter will be able to connect to other iSCSI targets on the network and convert them into virtual volumes. These virtual volumes are seen as multiple single volumes on the ShareCenter. Up to 8 virtual volumes can be stacked. The ShareCenter Pro acts as the storage stack master server. Virtual Volumes can be used to store and backup data, just like a local volume.

- Create** Click the button to add a virtual volume.
- Edit** Select a target and click the button to change the settings.
- Delete** Select a target and click the button to remove the virtual volume from the list.
- Format** When using the virtual volume for the first time, the volume must be formatted before mounting to the ShareCenter.
- Connect/Disconnect** Click **Connect** to link to a virtual volume. Click **Disconnect** to terminate the connection.



## Create a Virtual Volume

Click the **Create** button to see this window.

- Device IP** Enter the IP address of the device.
- Port** Enter the port for the device.
- Search** Click the button to search for the iSCSI targets on the network.
- Targets** Displays the available iSCSI targets.
- Share Folder** Enter a name for the share folder to access.
- Authentication** Click the **Yes** radio button to enable the authentication function.
- User Name** Enter the user name for authentication.
- Password** Enter the password for authentication

Click **Apply** to save the settings.

The screenshot shows a dialog box titled "Create Virtual Volume". At the top right is a close button (X). The dialog contains the following elements:

- Device IP:** An empty text input field.
- Port:** A text input field containing "3260".
- Search:** A button to the right of the Port field.
- Targets:** A large empty rectangular area for displaying search results.
- Share Folder:** A text input field containing "vvol\_".
- Authentication:** Two radio buttons, "No" (which is selected) and "Yes".
- User Name:** An empty text input field.
- Password:** An empty text input field.
- Apply:** A button at the bottom left.
- Cancel:** A button at the bottom right.

## Disk Diagnostic

Click the **Disk Diagnostic** icon in the Disk Management window or the Disk Diagnostic link in the left window to configure the Disk Diagnostic. This window is used to run a SMART (Self-Monitoring Analysis, and Reporting Technology) or Scan test. The hard drive is grayed out if it does not support SMART.

- Quick test** Click to run a quick SMART test. The test checks the electrical mechanical, and read performance of the hard drive.
- Extended test** Click to run an extended SMART test. This takes longer time, but checks more thoroughly and complete than the quick test.
- Schedule** Click to configure a scheduled test for the selected hard drive.
- Stop** Click to stop a test
- Scan** Click to scan if there are any errors or if there is any corruption on the file system.
- Format** Click to format a volume. All data on the volume will be deleted.



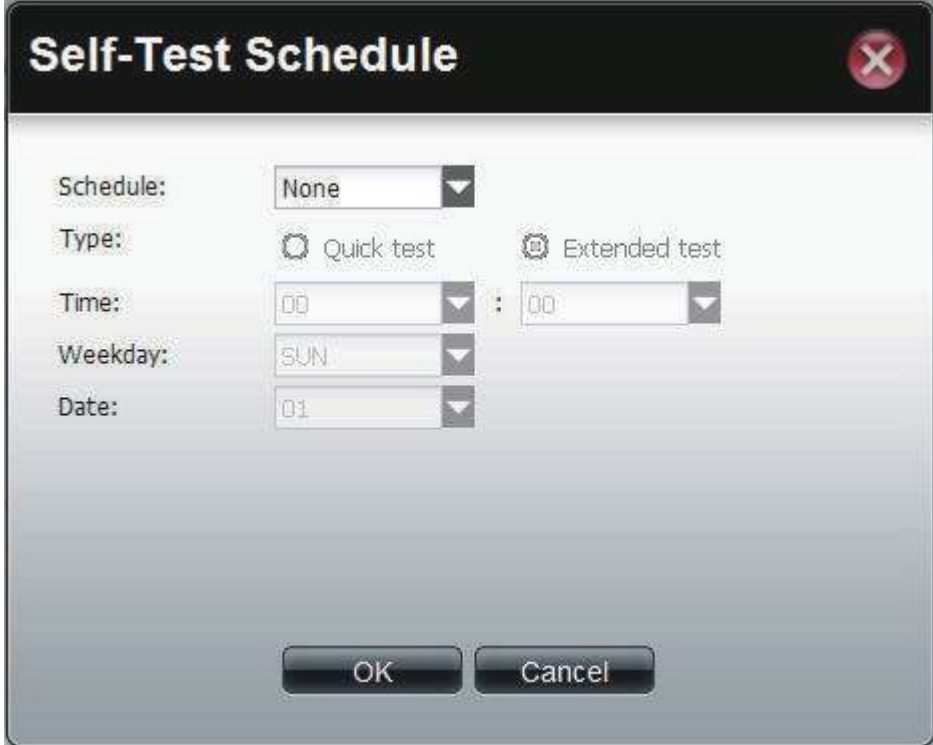
Slot	Manufacturer	Model	Schedule	Progress	Result
1	Western Digital	WDC WD6402AAEX...	None	-	Pass
2	Hitachi	Hitachi HDP725050...	None	-	
3	Western Digital	WDC WD3000HLFS...	None	-	Pass
4	Western Digital	WDC WD5000AVJS...	None	-	Pass
5	-	-	-	-	

## Schedule Disk Diagnostic

Click the **Schedule** button to see this window.

- Schedule** Use the drop-down menu to select the frequency of the self-test schedule.
- Type** Click the radio buttons to select the type of the test.
- Time** Use the drop-down menu to select hour and minute of the day.
- Weekday** Use the drop-down menu to select which day of the week.
- Date** Use the drop-down menu to select a date.

Click **OK** to save the settings.



The image shows a dialog box titled "Self-Test Schedule" with a close button (X) in the top right corner. The dialog contains the following fields and options:

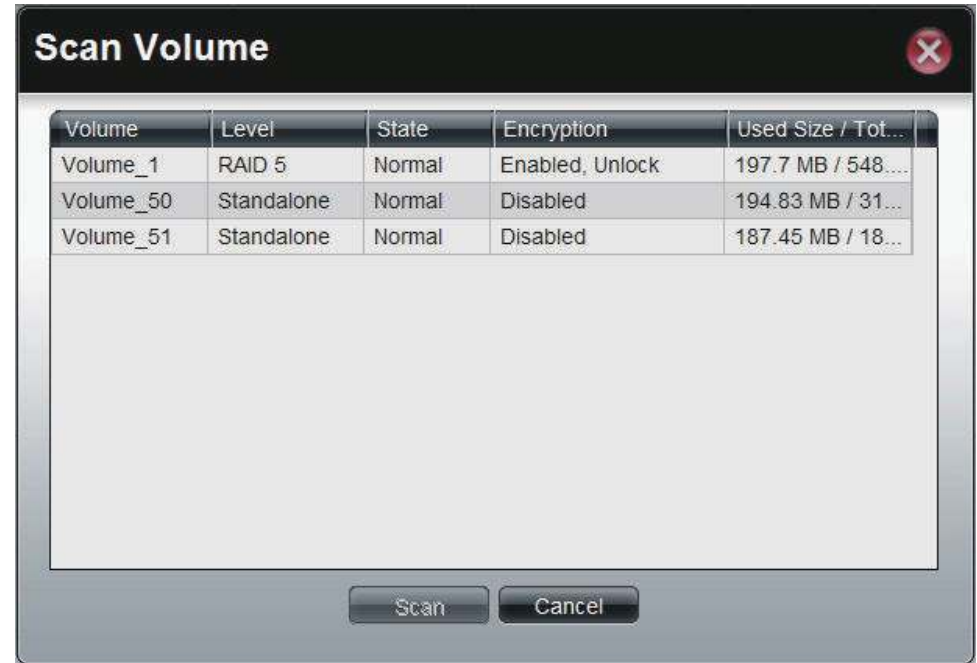
- Schedule:** A drop-down menu currently set to "None".
- Type:** Two radio buttons: "Quick test" (which is selected) and "Extended test".
- Time:** Two drop-down menus for hour and minute, both currently set to "00".
- Weekday:** A drop-down menu currently set to "SUN".
- Date:** A drop-down menu currently set to "01".

At the bottom of the dialog are two buttons: "OK" and "Cancel".

## Scan a Volume

Click the **Scan** button to see this window.

Select a volume and click **Scan** to start to check the file system.



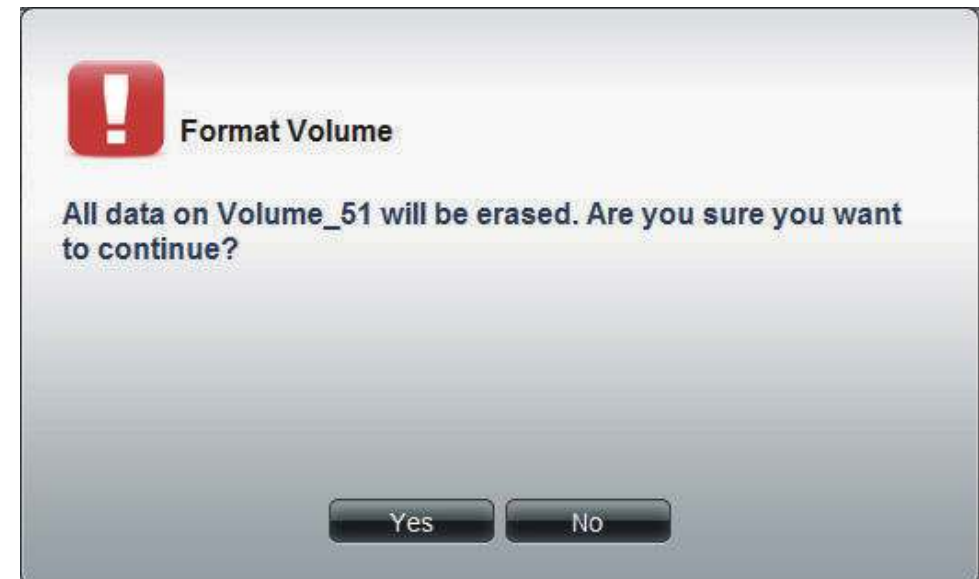
## Format a Volume

Click the **Format** button to see this window.

Select a volume and click **Format** to format the volume.



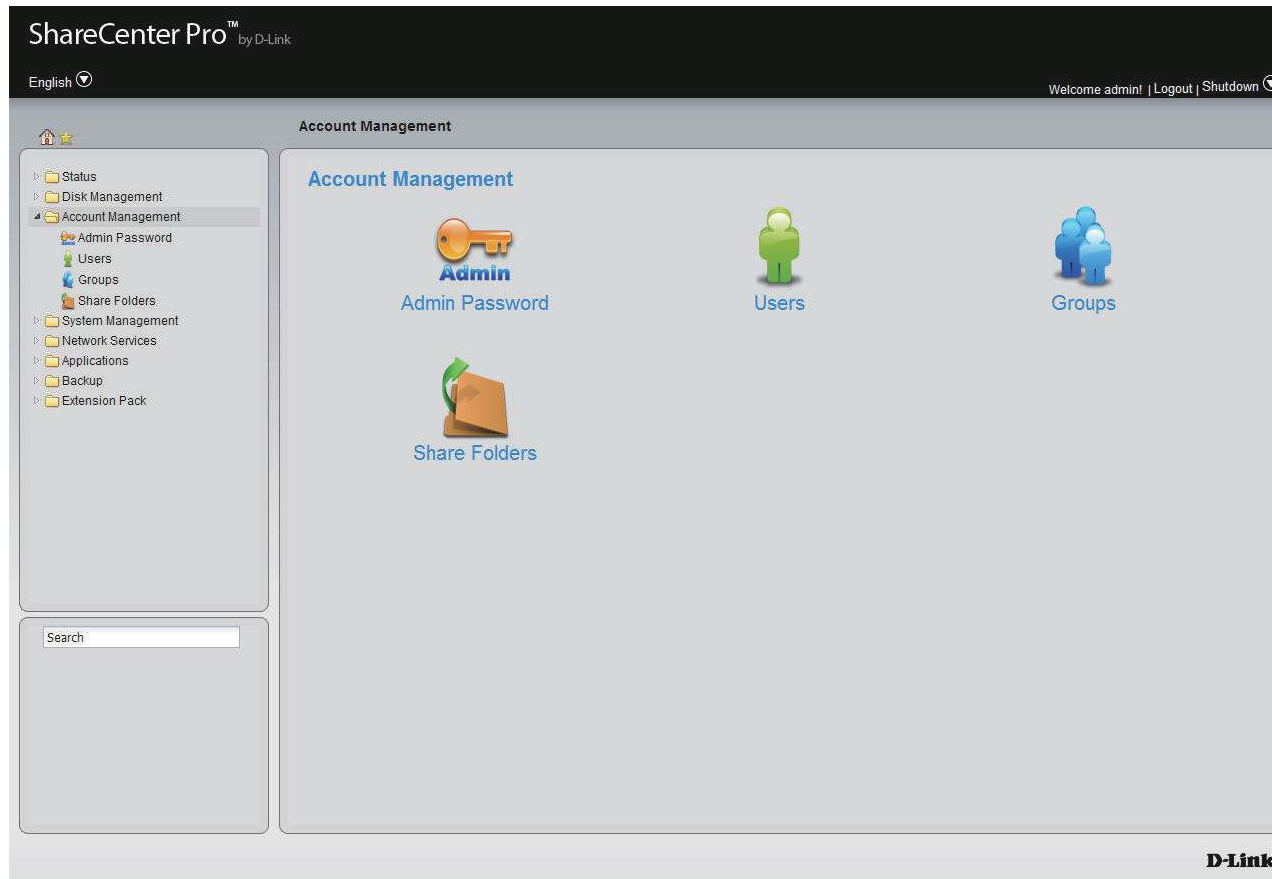
A warning message appears to double confirm if the formatting will proceed. Click **Yes** to proceed.





# Account Management

This folder contains the Admin Password, Users, Groups and Share Folders. Click the folder to see the subcategories.

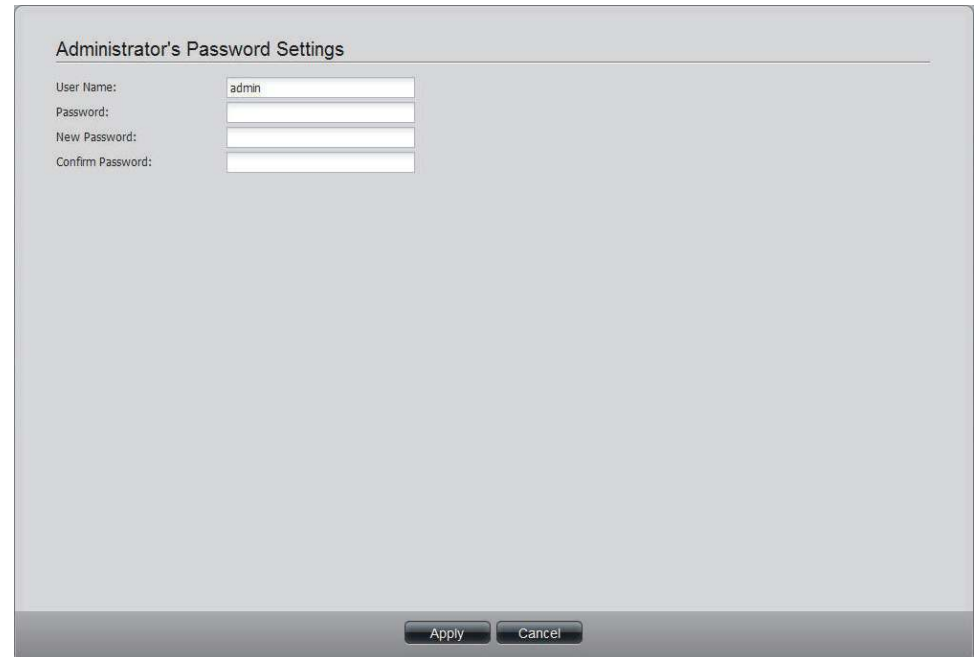


## Admin Password

Click the **Admin Password** icon in the Account Management window or the Admin Password link in the left window to configure the Admin Password. This window is used to change the administrator's password.

- User Name** Displays administrator's user name.
- Password** Enter the original password.
- New Password** Enter a new password.
- Confirm Password** Retype the new password.



Click **Apply** to save the settings.

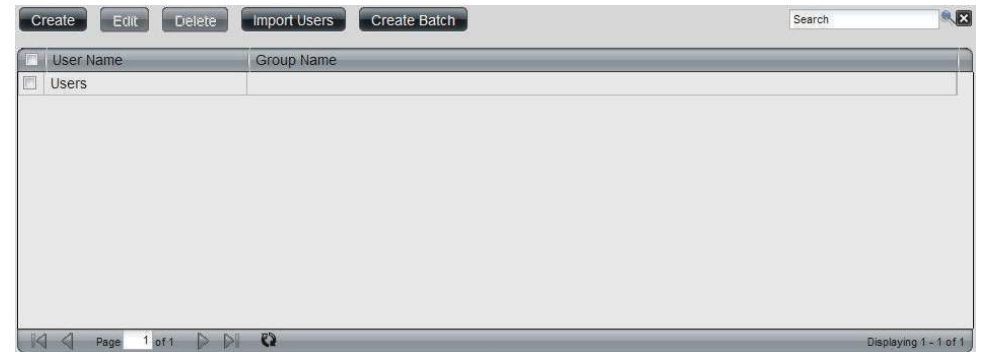


The image shows a dialog box titled "Administrator's Password Settings". It contains four input fields: "User Name" with the value "admin", "Password", "New Password", and "Confirm Password". At the bottom of the dialog box, there are two buttons: "Apply" and "Cancel".

# Users

Click the **Users** icon in the Account Management window or the Users link in the left window to create, edit or delete users. This window also can assign users to various groups.

- Create** Click the button to create a new user.
- Edit** Select a user and click the button to configure the user's information.
- Delete** Select a user and click the button to remove the user from the list.
- Import Users** Click the button to import a file with a list of users.
- Create Batch** Click the button to create multiple users at one time.
- Search** Enter the search keyword and click  to search for the user. Click  to clear the search field and all users' information appears.



## Create a User

Click the **Create** button to see the welcome window.

Click **Next** to continue.



- User Name** Enter the name of a user.
- Password** Enter the password of the user.
- Confirm Password** Retype the password.
- Set Quota** Tick the **Set Quota** check box to limit the storage capacity in megabyte for the user. The value of 0 means an unlimited quota size.

Click **Next** to continue.

**Create User**

**User Information**

User Name:

Password:

Confirm Password:








**Quotas**

Set Quota

Quotas:  MB

Previous Next Cancel








This window is used to add the user to a group. If there is no entry in the list, you can go to **Account Management > Groups** to create a group.

- Search** Enter the search keyword and click  to search for the group. Click  to clear the search field and all groups' information appears.
- Add** Tick the corresponding check box to add the user to the group.
- Page** Displays number of pages. You can enter a page number in the field to jump to the specific page. Click First Page () , Previous Page () , Next Page () or Last page () to search for the group.
- Refresh** Click  to update the group list.

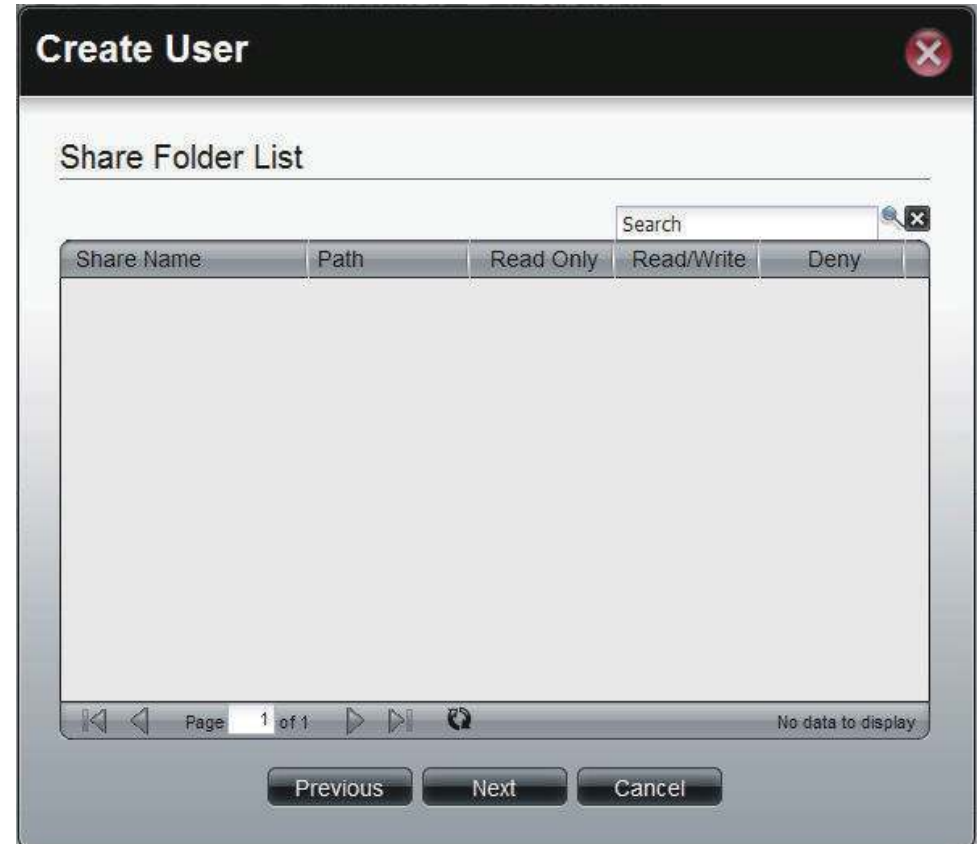
Click **Next** to continue.



This window is used to assign access rights to the user for the corresponding share folder(s). If there are no entries in the list, you can go to **Account Management > Share Folders** to create share folders.

- Search** Enter the search keyword and click  to search for the folder. Click  to clear the search field and all folders appear.
- Read Only** Tick the check box for read only access right.
- Read/Write** Tick the check box for both read and write access rights.
- Deny** Tick the check box for no access right.
- Page** Displays number of pages. You can enter a page number in the field to jump to the specific page. Click First Page () , Previous Page () , Next Page () or Last page () to search for the group.
- Refresh** Click  to update the folder list.

Click **Next** to continue.



This window displays a summary of the configured information.

Click **Previous** to modify the settings.

Click **Apply** to save the settings.





## Import Users

Click the **Import Users** button to see the welcome window.

Click **Next** to continue.



This window allows you to import a user list file.

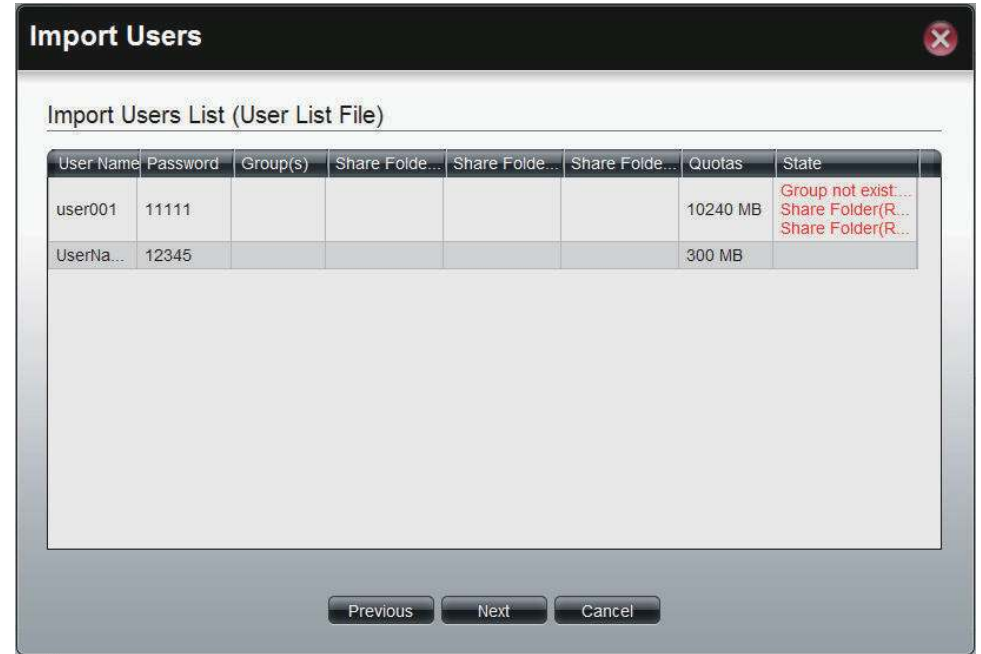
- Download** Click this button to see the example for listing the users in the file.
- Overwrite duplicate accounts** Tick the check box to replace duplicate accounts.
- User List File** Click the **Browse** button to locate the file.

Click **Next** to continue.



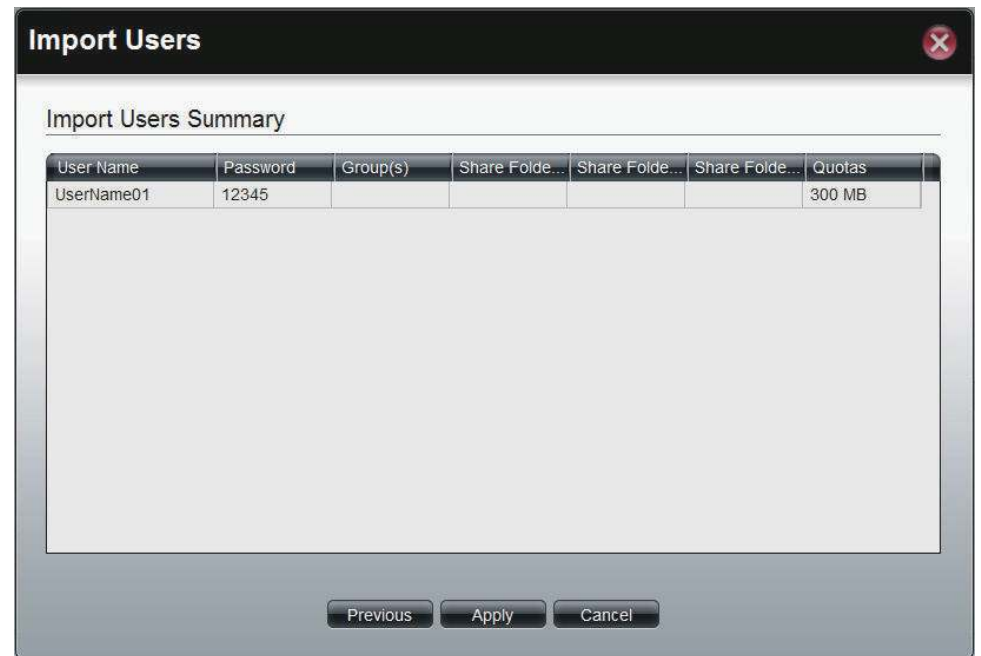
This window displays all the users in the file. If there are any error warnings in the State field. The user will not be able to go to the next window.

Click **Next** to continue.



The window displays the final results of importing users to the ShareCenter.

Click **Apply** to save the settings.



## Create Batch Users

Click the **Create Batch** button to see the welcome window.

Click **Next** to continue.



This window allows you to create multiple users.

- User Name Prefix** Enter the prefix of the users
- Start Number** Enter the start number of the users.
- Create Number** Enter the total number of the users.
- Password** Enter the password of the users
- Confirm Password** Retype the password
- Overwrite duplicate Accounts** Tick the check box to replace duplicate accounts.
- Set Quota** Tick the **Set Quota** check box to limit the storage capacity (in megabyte) for the user. The value of 0 means an unlimited quota size.

Click **Next** to continue.

**Create Batch Users**

**User Information**

User Name Prefix:

Start Number:

Create Number:

Password:

Confirm Password:

Overwrite duplicate accounts








**Quotas**

Set Quota

Quotas:  MB

Previous Next Cancel








This window is used to add the users to groups. If there is no entry in the list, you can go to **Account Management > Groups** to create groups.

- Search** Enter the search keyword and click  to search for the group. Click  to clear the search field and all groups' information appears.
- Add** Tick the corresponding check box to add the users to the groups.
- Page** Displays number of pages. You can enter a page number in the field to jump to the specific page. Click First Page () , Previous Page () , Next Page () or Last page () to search for the group.
- Refresh** Click  to update the group list.

Click **Next** to continue.



This window is used to assign access rights to the users for the corresponding share folder(s) to the share folders. If there is no entry in the list, you can go to **Account Management > Share Folders** to create share folders.

- Search** Enter the search keyword and click  to search for the folder. Click  to clear the search field and all folders appear.
- Read Only** Tick the check box for read only access right.
- Read/Write** Tick the check box for both read and write access rights.
- Deny** Tick the check box for no access right.
- Page** Displays number of pages. You can enter a page number in the field to jump to the specific page. Click First Page () , Previous Page () , Next Page () or Last page () to search for the group.
- Refresh** Click  to update the folder list.

Click **Next** to continue.



This window displays a summary of the configured information.

Click **Previous** to modify the settings.

Click **Apply** to save the settings. Depending on the amount of users, the procedure may take a few hours.

**Create Batch Users**

**User Information**

User Name	State
UserBatch0	
UserBatch1	
UserBatch2	

**Batch User's Options**



Options	Settings
Password	45678
Group Name	
Quotas	500 MB
Share Folder (RO)	
Share Folder (RW)	
Share Folder (Deny)	

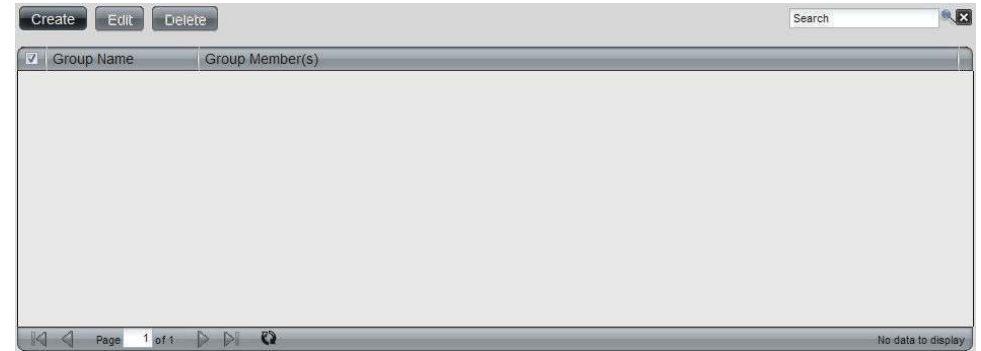
Previous Apply Cancel



# Groups

Click the **Groups** icon in the Account Management window or the Groups link in the left window to create, edit or delete a group.

- Create** Click the button to create a new group.
- Edit** Select a group and click the button to configure the group's information.
- Delete** Select a group and click the button to remove the group from the list.
- Search** Enter the search keyword and click  to search for the group. Click  to clear the search field and all groups' information appears.



## Create a Group

Click the **Create** button to see the welcome window.








**Group Name** Enter a name of the group

Click **Next** to continue.



The screenshot shows a 'Create Group' dialog box. The title bar contains the text 'Create Group' and a red 'X' close button. Below the title bar, the text 'Group Info' is displayed above a horizontal line. Underneath this line, the label 'Group Name:' is positioned to the left of an empty rectangular text input field. At the bottom of the dialog, there are three buttons: 'Previous', 'Next', and 'Cancel', arranged horizontally from left to right.

This window is used to add the users to the group. If there is no entry in the list, you can go to **Account Management > Users** to create users.








- Search** Enter the search keyword and click  to search for the user. Click  to clear the search field and all users' information appears.
- Add** Tick the corresponding check box to add the user to the group.
- Page** Displays number of pages. You can enter a page number in the field to jump to the specific page. Click First Page () , Previous Page () , Next Page () or Last page () to search for the group.
- Refresh** Click  to update the group list.

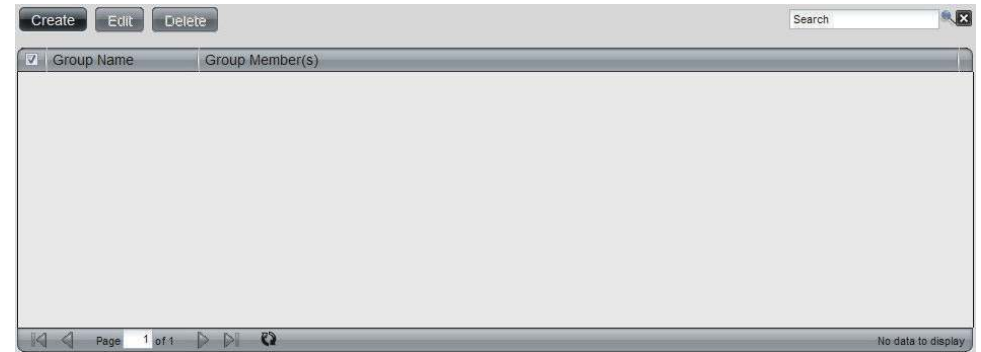
Click **Apply** to save the settings.



## Share Folders

Click the **Share Folders** icon in the Account Management window or the Share Folders link in the left window to create, edit or delete a share folder.

- Create** Click the button to create a new folder.
- Edit** Select a folder and click the button to configure the folder's information.
- Delete** Select a folder and click the button to remove the folder from the list.
- Search** Enter the search keyword and click  to search for the folder. Click  to clear the search field and all folders' information appears.
- Page** Displays number of pages. You can enter a page number in the field to jump to the specific page. Click First Page () , Previous Page () , Next Page () or Last page () to search for the group.
- Refresh** Click  to update the group list.



## Create a Share Folder

Click the **Create** button to see the welcome window.

Click **Next** to continue.



This window allows you to create multiple share folders.

- Select Path** Click the field to show the available folders. Click the **Create** button to add a new folder. Double-click a folder to select it.
- Oplocks** Click **Enable** to enable the Opportunistic lock (oplock) mechanism.
- Map Archive** Click **Enable** to the map archive function.
- Recycle Bin** Click **Enable** to enable the recycle bin for this share folder.
- Set Quota** Tick the **Set Quota** check box to limit the storage capacity (in megabyte) for the share folder. The value of 0 means an unlimited quota size.

Click **Next** to continue.

**Create Share Folder**

**Volume Path**

Select Path:

**Share Folder Options**

Oplocks:  Enable  Disable

Map Archive:  Enable  Disable

Recycle Bin:  Enable  Disable

**Quotas**

Set Quota

Quotas:  MB

Previous Next Cancel

This window assigns the access rights of this folder.

**All Users** Tick the radio button to grant all the users the same access right to the folder.

**Specific User** Tick the check box to grant access rights to the specific users.

Click **Next** to continue.



If **All Users** is selected in the previous window, this window appears.








- Read Only** Tick the check box for read only access right.
- Read/Write** Tick the check box for both read and write access rights.
- Deny** Tick the check box for no access right.

Click **Next** to continue.






If **Specific User** is selected in the previous window, this window appears.

- Local User / Local Group** Use the drop-down menu to toggle between Local User and Local Group.
- Search** Enter the search keyword and click  to search for the folder. Click  to clear the search field and all folders' information appears
- Read Only** Tick the check box for read only access right.
- Read/Write** Tick the check box for both read and write access rights.
- Deny** Tick the check box for no access right.
- Page** Displays number of pages. You can enter a page number in the field to jump to the specific page. Click First Page () , Previous Page () , Next Page () or Last page () to search for the group.
- Refresh** Click  to update the group list.

Click **Next** to continue.

### Create Share Folder

#### Permission

Local User 
Search  

User Name	Read Only	Read/Write	Deny
Users	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UserName	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UserName01	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UserBatch0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UserBatch1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UserBatch2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Page 1 of 1
Displaying 1 - 6 of 6

Previous
Next
Cancel

This window displays a summary of the configured information.

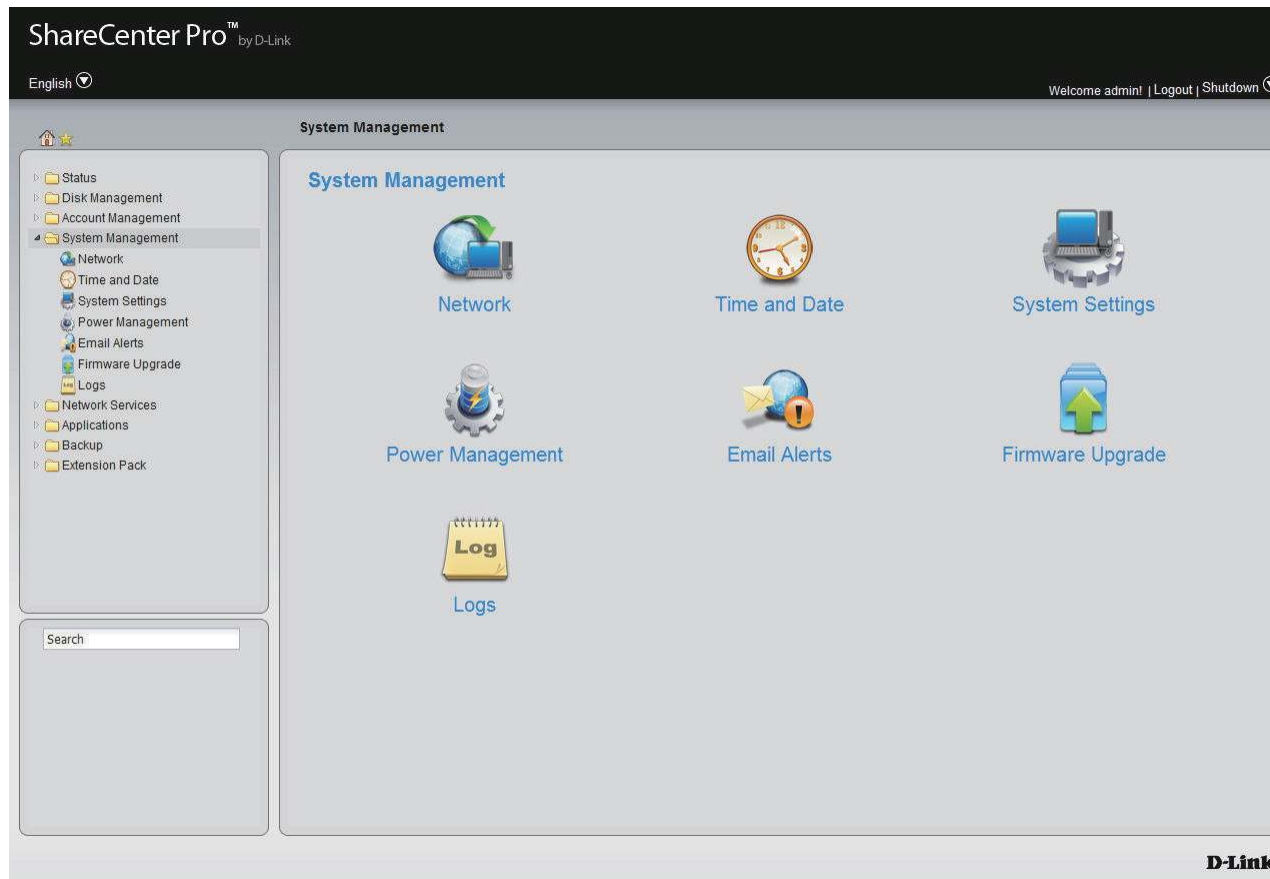
Click **Previous** to modify the settings.

Click **Apply** to save the settings.



# System Management

This folder contains the Network, Time and Date, System Settings, Power Management, Email Alerts, Firmware Upgrade, and Logs. Click the folder to see the subcategories.



# Network

Click the **Network** icon in the System Management window or the Network link in the left window to configure the Network.

## LAN 1

Click the **LAN 1** tab to see the following window.

**DHCP Client** Click the radio button to obtain the IP address from a DHCP server.

**Static IP** Click the radio button to assign a static IP address to the ShareCenter.

**IP Address** Enter a static IP address.

**Subnet Mask** Enter the subnet mask for the IP address.

**Jumbo Frame** Use the drop-down menu to select the larger frame size than standard Ethernet frame size.

**Gateway** Enter the gateway IP address for the ShareCenter.

**VLAN** Enable or disable the VLAN.

**VLAN ID** Enter a VLAN ID when VLAN is enabled.

**Port Bonding** Enable or disable port bonding which is also known as port trunking.

**Option** Use the drop-down menu to select the port bonding method. Available methods are Round Robin, Active Backup, XOR, Broadcast, 802.3ad, Adaptive Transmit Load Balancing, and Adaptive Load Balancing.

Click **Apply** to save the settings.

## LAN 2

Click the **LAN 2** tab to see the following window.

**DHCP Client** Click the radio button to obtain the IP address from a DHCP server.

**Static IP** Click the radio button to assign a static IP address to the ShareCenter.

**IP Address** Enter a static IP address.

**Subnet Mask** Enter the subnet mask for the IP address.

**Jumbo Frame** Use the drop-down menu to select the larger frame size than standard Ethernet frame size.

**Gateway** Enter the gateway IP address for the ShareCenter.

**VLAN** Enable or disable the VLAN.

**VLAN ID** Enter a VLAN ID when VLAN is enabled.

The screenshot shows a configuration window for LAN 2. At the top, there are tabs for LAN 1, LAN 2 (selected), Global Settings, and Route. The LAN 2 section has two radio buttons: 'DHCP Client' (selected) and 'Static IP'. Below these are input fields for IP Address (192.168.1.32), Subnet Mask (255.255.0.0), Jumbo Frame (a dropdown menu set to 'Disabled'), and Gateway (192.168.1.1). The VLAN section has two radio buttons: 'VLAN' (disabled) and 'Enable' (selected). Below this is a VLAN ID input field containing the number 0. At the bottom right, there are 'Apply' and 'Cancel' buttons.

Click **Apply** to save the settings.

## Global Settings

Click the **Global Settings** tab to see the following window.

- Host Name** Enter the name of the ShareCenter.
- Primary DNS** Enter the main DNS address for the ShareCenter.
- Secondary DNS** Enter the secondary DNS address for the ShareCenter.
- Gateway** Use the drop-down menu to select the LAN interface.

Click **Apply** to save the settings.


The screenshot shows a configuration window with the following fields and values:

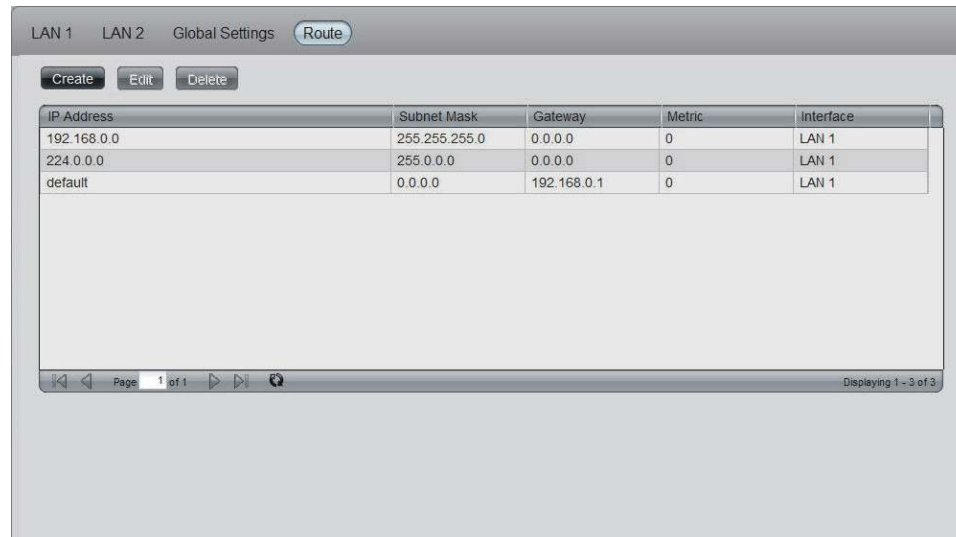
- Host Name:** dlink-570412
- DNS Server:**
  - Primary DNS: 192.168.69.1
  - Secondary DNS: (empty)
- Default Gateway:** LAN 1

Buttons for **Apply** and **Cancel** are located at the bottom right of the window.

## Route

Click the **Route** tab to see the following window.

- Create** Click to create a new routing path.
- Edit** Select a routing path and click the button to edit the routing path.
- Delete** Select a routing path and click the button to remove the entry from the list.
- Page** Displays number of pages. You can enter a page number in the field to jump to the specific page. Click First Page (◀◀), Previous Page (◀), Next Page (▶) or Last page (▶▶) to search for the group.
- Refresh** Click  to update the group list.



The screenshot shows the 'Route' configuration window with a table of routing entries. The table has columns for IP Address, Subnet Mask, Gateway, Metric, and Interface. There are three entries: 192.168.0.0 with subnet mask 255.255.255.0 and gateway 0.0.0.0; 224.0.0.0 with subnet mask 255.0.0.0 and gateway 0.0.0.0; and a default route with subnet mask 0.0.0.0 and gateway 192.168.0.1. All entries have a metric of 0 and are associated with LAN 1. The window also shows 'Create', 'Edit', and 'Delete' buttons at the top and a pagination bar at the bottom indicating 'Page 1 of 1' and 'Displaying 1 - 3 of 3'.

IP Address	Subnet Mask	Gateway	Metric	Interface
192.168.0.0	255.255.255.0	0.0.0.0	0	LAN 1
224.0.0.0	255.0.0.0	0.0.0.0	0	LAN 1
default	0.0.0.0	192.168.0.1	0	LAN 1

Click the **Create** button under the Route tab to see the window.

- Network Address** Enter an IP address of the routing path.
- Subnet Mask** Enter the subnet mask for the IP address.
- Metric** Enter an integer cost metric for the route.
- Interface** Use the drop-down menu to select the interface.
- Gateway** Enter the forwarding or next hop IP address.

Click **Apply** to save the settings.



The screenshot shows the 'Create Route' dialog box with a close button (X) in the top right corner. It contains the following fields:

- Network Address:
- Subnet Mask:
- Metric:
- Interface:  (dropdown menu)
- Gateway:

At the bottom of the dialog are two buttons: 'Apply' and 'Cancel'.

## Time and Date

Click the **Time and Date** icon in the System Management window or the Time and Date link in the left window to configure the time and date of the ShareCenter.

- Current Time** Displays the current time of the ShareCenter.
- Time Zone** Use the drop-down menu to select the time zone of your area.
- Set from Computer** Click the radio button to synchronize the ShareCenter's time with your computer.
- Set Manually** Click the radio button to set the time and date manually.
- Set from NTP Server** Click the radio button and select a NTP server to synchronize the ShareCenter's time with the NTP server.

Click **Apply** to save the settings.

The screenshot shows the 'Date and Time' configuration window. At the top, it displays the 'Current Time' as 04:03:27 on 01/15/2010. Below this is the 'Time Zone Settings' section, where the 'Time Zone' is set to '(GMT) Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London'. The 'Synchronize Time Settings' section has three radio buttons: 'Set from Computer' (which is selected), 'Set Manually', and 'Set from NTP Server'. Under 'Set Manually', there are input fields for date (2010-09-27) and time (00:00:00). Under 'Set from NTP Server', there is a dropdown menu labeled 'Select NTP Server'. At the bottom of the window, there are 'Apply' and 'Cancel' buttons.



## System Settings

Click the **System Settings** icon in the System Management window or the System Settings link in the left window to configure the system settings.

**Save Configuration** Click the **Save** button to save the current settings to the selected location.

**Load Configuration** Click the **Browse** button to locate the path for the configuration file and click **Load** to load the file.

**Default Configuration** Click **Restore** to reset the ShareCenter back to the factory default settings.

**Web Timeout** Enter a period of time. If the web is idle longer than the time, it will be automatically logged out.

**System Overheat Temperature** Toggle between Celsius and Fahrenheit and enter a temperature. Once the system temperature is over the entered temperature, the ShareCenter will automatically shut down.

The screenshot shows a 'Configuration Settings' dialog box. It is divided into three main sections:

- Configuration Settings:** This section includes three rows. The first row is 'Save Configuration:' with a 'Save' button. The second row is 'Load Configuration:' with a text input field and a 'Browse...' button. The third row is 'Default Configuration:' with 'Save', 'Load', and 'Restore' buttons.
- Idle Time Settings:** This section includes 'Web Timeout:' with a text input field containing '10' and '(Minutes)'.
- System Overheat Settings:** This section includes 'System Overheat Temperature:' with a dropdown menu set to 'Celsius' and a text input field containing '60' followed by '°C'.

At the bottom of the dialog are 'Apply' and 'Cancel' buttons.

Click **Apply** to save the settings.

# Power Management

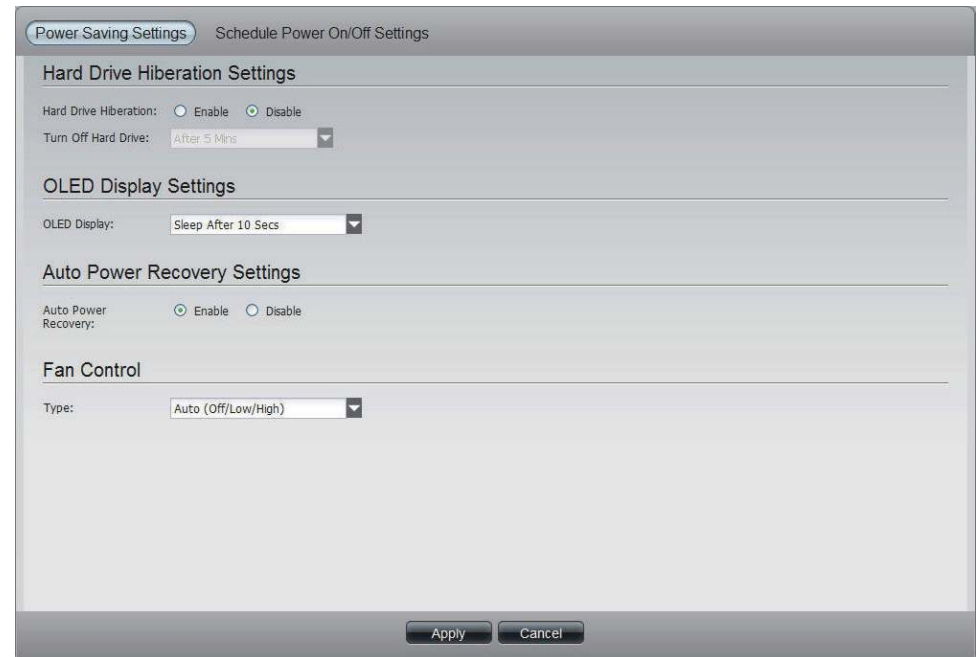
Click the **Power Management** icon in the System Management window or the Power Management link in the left window to configure the system power settings.

## Power Saving Settings

Click the **Power Saving Settings** tab to see the following window.

- Hard Drive Hibernation** Click **Enable** to enable the function.
- Turn Off Hard Drive** Use the drop-down menu to select an idle time, after which the hard drives will enter into hibernation mode.
- OLED Display** Use the drop-down menu to select an idle time, after which the OLED will be turned off.
- Auto Power Recovery** Click **Enable** to have the power restored when encountering a power failure.
- Type** Use the drop-down menu to select the fan speed modes. Available choices are Auto (Off/Low/High), Auto (Low/High) and Manual (Always on High).

Click **Apply** to save the settings.



## Schedule Power On/Off Settings

Click the **Schedule Power On/Off Settings** tab to see the following window. This function will be deactivated if the schedule is configured at the same time as the firmware update.

- Schedule Power On/Off** Click **Enable** to set a schedule for automatic system power on and off.
- Schedule On & Schedule Off** Use the drop-down menus to select the time of system power on and off.

Click **Apply** to save the settings.

Power Saving Settings **Schedule Power On/Off Settings**

Schedule Power On/Off

Schedule Power On/Off:  Enable  Disable

Schedule On & Schedule Off

	Schedule On		Schedule Off	
SUN:	<input type="checkbox"/>	0:00	<input type="checkbox"/>	0:00
MON:	<input type="checkbox"/>	0:00	<input type="checkbox"/>	0:00
TUE:	<input type="checkbox"/>	0:00	<input type="checkbox"/>	0:00
WED:	<input type="checkbox"/>	0:00	<input type="checkbox"/>	0:00
THU:	<input type="checkbox"/>	0:00	<input type="checkbox"/>	0:00
FRI:	<input type="checkbox"/>	0:00	<input type="checkbox"/>	0:00
SAT:	<input type="checkbox"/>	0:00	<input type="checkbox"/>	0:00

Apply Cancel

## Email Alerts

Click the **Email Alerts** icon in the System Management window or the Email Alerts link in the left window to configure the e-mail alert settings.

- Email Alert** Click the radio buttons to enable or disable the e-mail alert function.
- Login Method** Use the drop-down menu to select the login method. If the SMTP server requires authentication, select **Login**. If not, select **Anonymous**.
- User Name** If **Login** is selected in **Login Method**, enter the user name of the e-mail account.
- Password** If **Login** is selected in **Login Method**, enter the password of the e-mail account.
- Encryption** Select **SSL/TLS** if the SMTP server requires authentication.
- SMTP Server** Enter the IP address of the SMTP server.
- Port Number** Enter the port number of the SMTP server.
- Sender E-mail** Enter the sender's e-mail address.
- Receiver E-mail** Enter the e-mail address that the e-mail alert sends to.
- Test E-mail** Click the **Test E-Mail** button to send a test e-mail.
- Event Alert Settings** Tick the check boxes to select the situation that will cause the e-mail alert to be sent out.

The screenshot shows a configuration window titled "E-Mail Settings" and "Event Alert Settings".

**E-Mail Settings:**

- Email Alert:  Enable  Disable
- Login Method: Anonymous (dropdown menu)
- User Name: (text input field)
- Password: (text input field)
- Encryption:  SSL/TLS  Disable
- SMTP Server: (text input field)
- Port Number: 25 (text input field)
- Sender E-mail: (text input field)
- Receiver E-mail: (text input field)
- Test E-Mail: (button)

**Event Alert Settings:**

- Administrator's Password Has Been Changed
- Firmware Has Been Upgraded
- Network Settings Have Been Changed
- System Temperature Has Been Exceeded
- S.M.A.R.T Test Has Finished
- System Has Rebooted From A Power Failure
- Volume/Disk Status Has Been Changed
- Space Status Interval: [00] (Hours) [00] (Minutes)
- One of The Volumes Is Full

Buttons: Apply, Cancel

Click **Apply** to save the settings.

## Firmware Upgrade

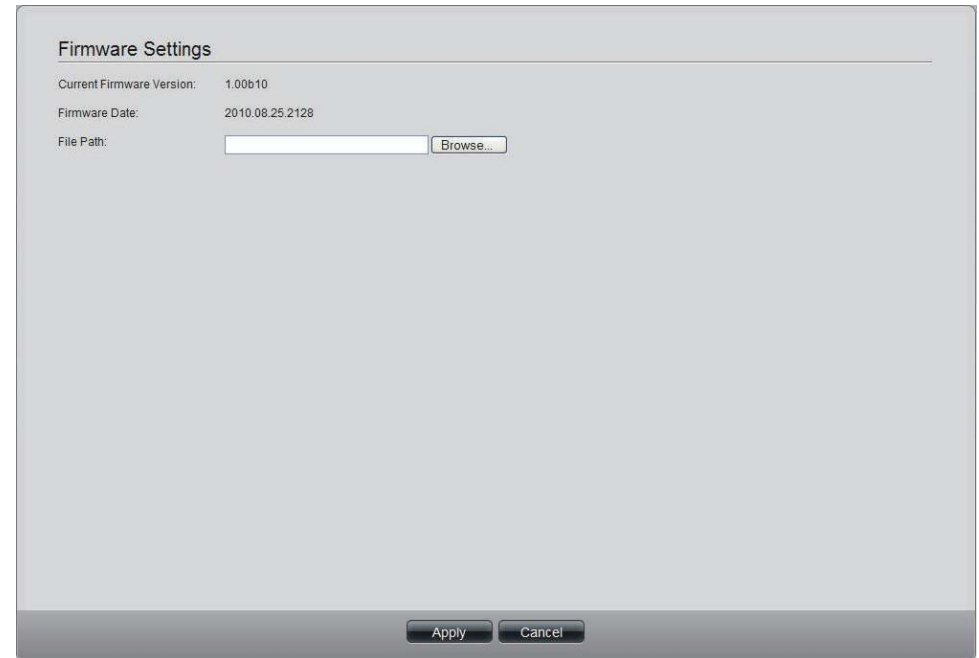
Click the **Firmware Upgrade** icon in the System Management window or the Firmware Upgrade link in the left window to update the firmware.

**Current Firmware Version** Displays the current firmware in the system.

**Firmware Date** Displays the date of the firmware.

**File Path** Click the **Browse** button to locate the firmware. You must save the firmware to the local hard drive of your computer before upgrading the firmware.

Click **Apply** to start updating the firmware.



The screenshot shows a 'Firmware Settings' dialog box with a light gray background. At the top, the title 'Firmware Settings' is displayed. Below the title, there are three rows of information: 'Current Firmware Version: 1.00b10', 'Firmware Date: 2010.08.25.2128', and 'File Path:'. The 'File Path' field is followed by a text input box and a 'Browse...' button. At the bottom of the dialog, there are two buttons: 'Apply' and 'Cancel'.

## Log Settings

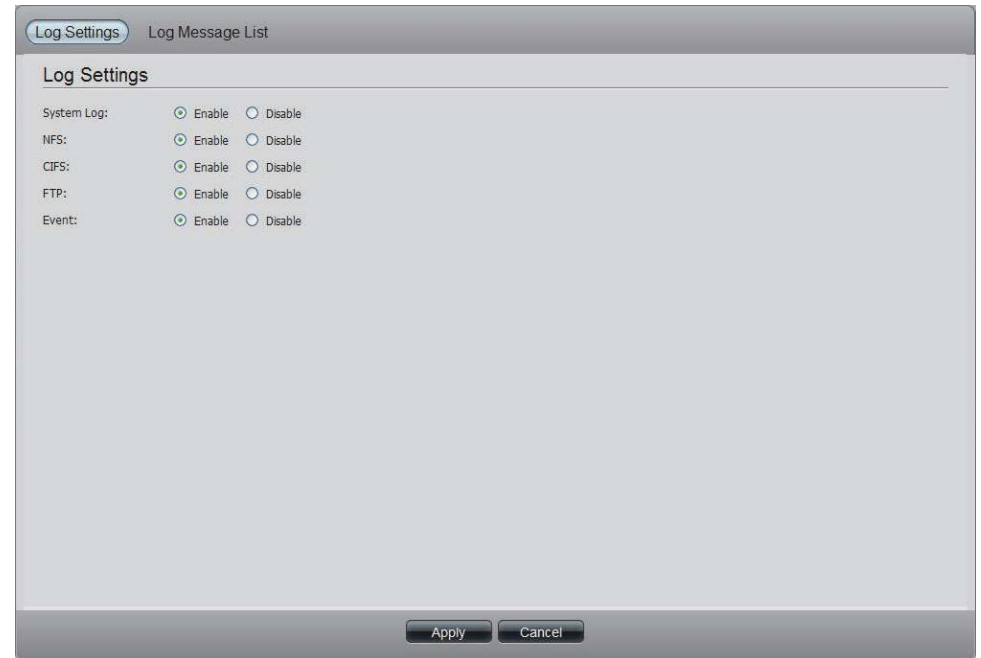
Click the **Log Settings** icon in the System Management window or the Log Settings link in the left window to configure the log settings.

### Log Settings

Click the **Log Settings** tab to see the following window.

**Log Settings** Click the radio buttons to enable various situations which will be recorded in the logs.

Click **Apply** to save the settings.



## Log Message List

Click the **Log Message List** tab to see the following window.

**Refresh Log** Click the button to update the log message list.

**Clear Log** Click the button to delete all the logs.

**Save Log** Click the button to save the logs to the local computer.

**Severity** The numbers below represent different levels of severity.

0: Emergency

1: Critical

2: Alert

3: Error

4: Warning

5: Notice

6: Info

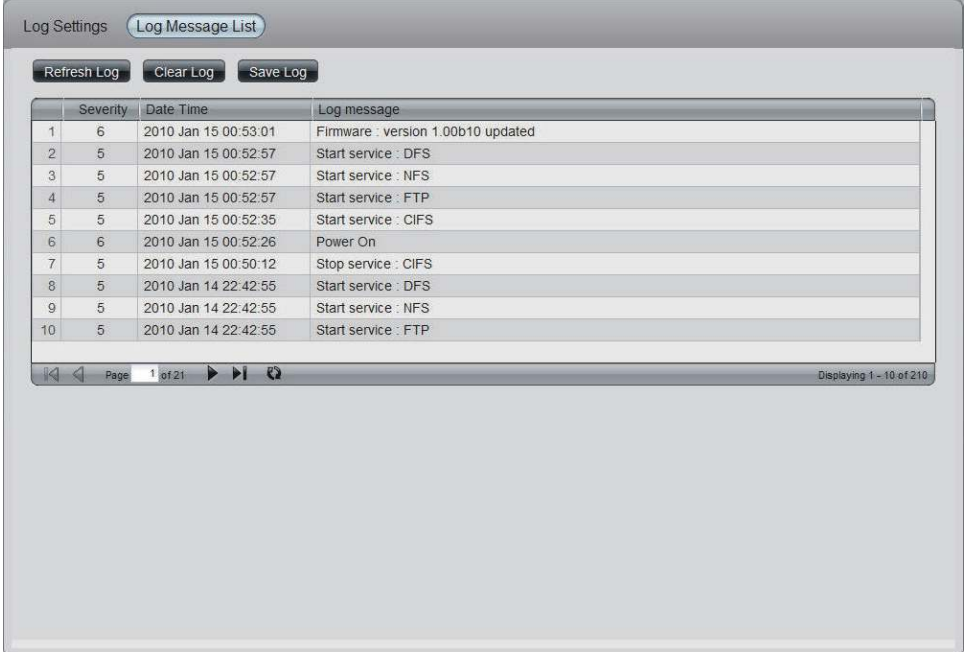
7: Debug

**Date Time** Displays the time and date for the log.

**Log Message** Displays detail information about the log.

**Page** Displays number of pages. You can enter a page number in the field to jump to the specific page. Click First Page (⏪), Previous Page (⏩), Next Page (⏭) or Last page (⏮) to search for the group.

**Refresh** Click  to update the group list.

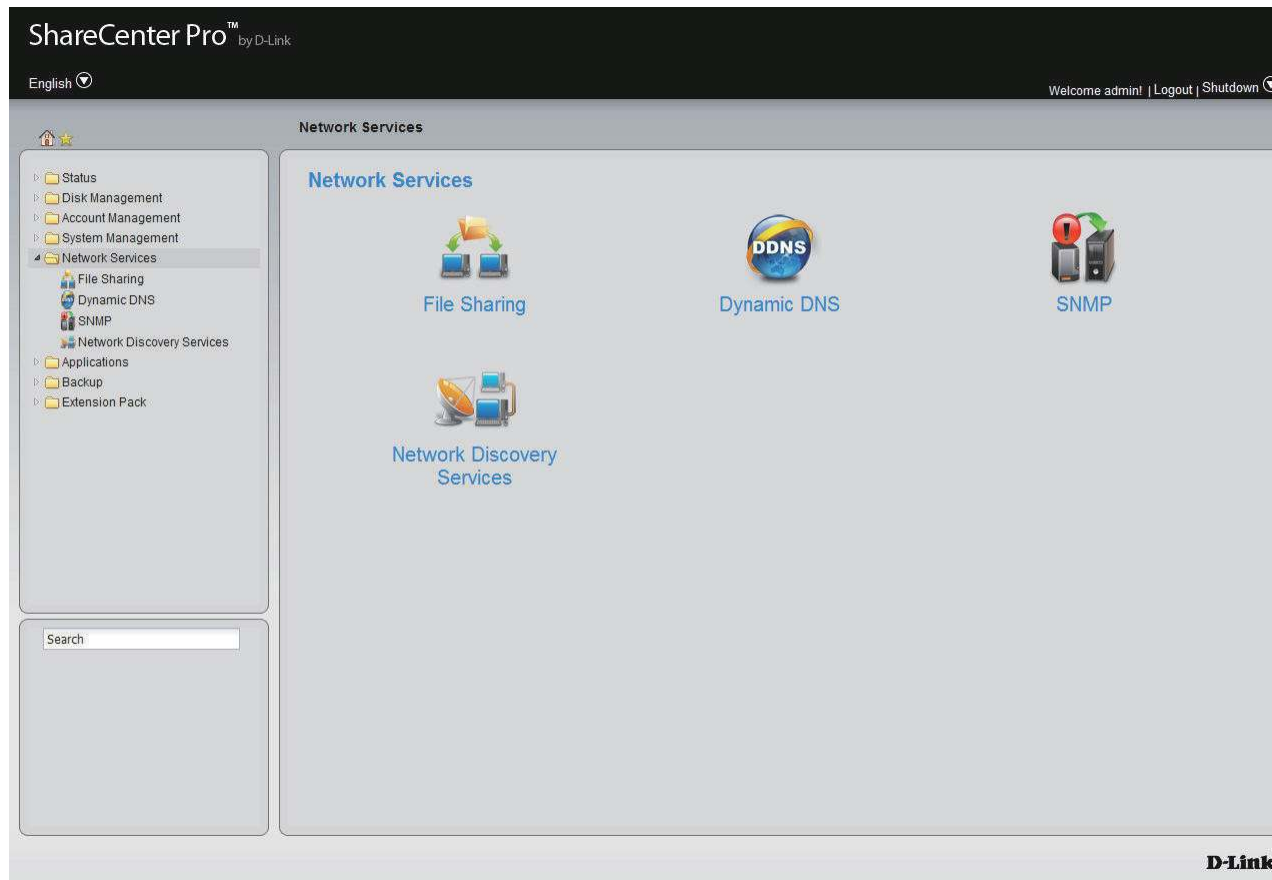


	Severity	Date Time	Log message
1	6	2010 Jan 15 00:53:01	Firmware : version 1.00b10 updated
2	5	2010 Jan 15 00:52:57	Start service : DFS
3	5	2010 Jan 15 00:52:57	Start service : NFS
4	5	2010 Jan 15 00:52:57	Start service : FTP
5	5	2010 Jan 15 00:52:35	Start service : CIFS
6	6	2010 Jan 15 00:52:26	Power On
7	5	2010 Jan 15 00:50:12	Stop service : CIFS
8	5	2010 Jan 14 22:42:55	Start service : DFS
9	5	2010 Jan 14 22:42:55	Start service : NFS
10	5	2010 Jan 14 22:42:55	Start service : FTP

Click **Apply** to save the settings.

# Network Services

This folder contains File Sharing, Dynamic DNS, SNMP and Network Discovery Services. Click the folder to see the subcategories.





## File Sharing

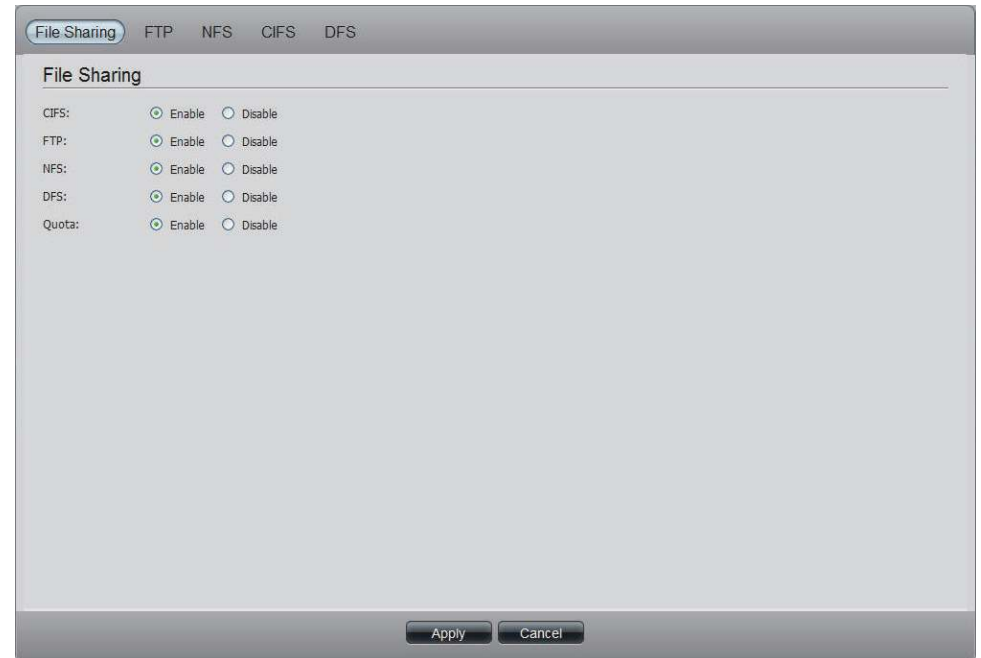
Click the **File Sharing** icon in the Network Services window or the File Sharing link in the left window to configure the network services.

### File Sharing

Click the **File Sharing** tab to see the following window.

**File Sharing** Click the radio buttons to enable various network services.

Click **Apply** to save the settings.



## FTP








Click the **FTP** tab to see the following window.

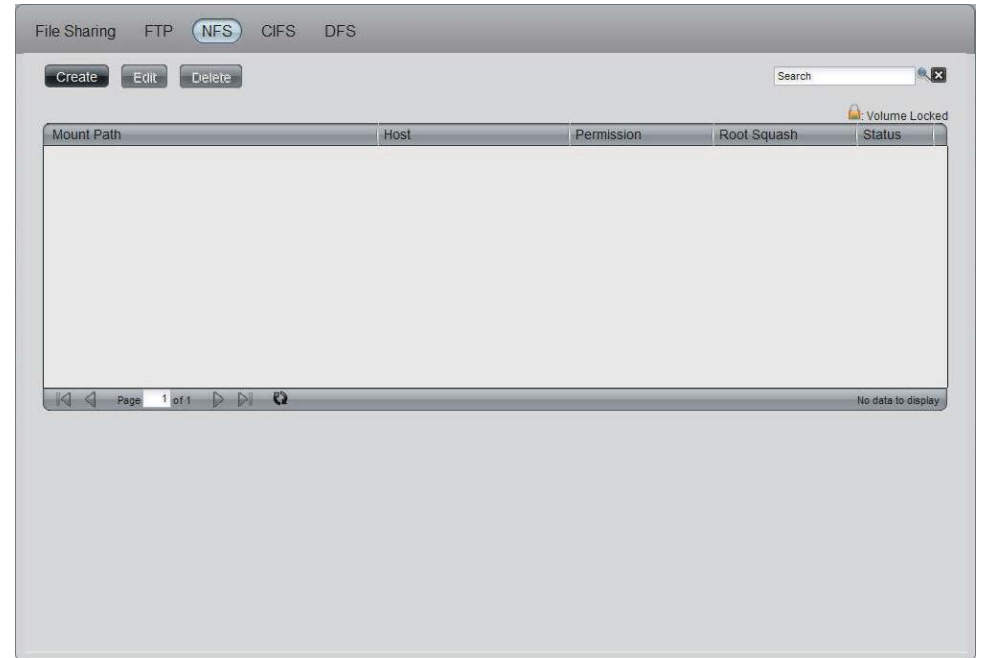
- Control Port** The default port for FTP is 21. Enter a port number in the range of 1025 to 3688, 3690 to 49999, and 65501 to 65535.
- Port Range of Passive FTP** The default port range for passive FTP is from 55536 to 55663. Click the **Use the following port range** radio button and manually enter the port range from 1025 to 65535.
- Respond with external IP address for Passive mode** Click **Enable** to respond with external IP address for the passive FTP connection request.
- Client Language** Use the drop-down menu to select the supported language for the FTP clients.
- Max Connections** Use the drop-down menu to select the maximum number of concurrent FTP connection.
- Max Connections per IP** Use the drop-down menu to select the maximum number of concurrent FTP per IP connection.
- Connection Idle Time** Use the drop-down menu to select the time that the FTP server logs out the user after this period of idle time.
- Bandwidth Restriction** Click **Enable** to restrict the bandwidth of each FTP connection. Enter the number in KB/s for the maximum speed of upload and download.
- Anonymous Support** Click **Enable** to allow anonymous FTP to log in.
- SSL/TLS Connection Only** Click **Enable** to only allow SSL or TLS connection requests from the FTP clients.

Click **Apply** to save the settings.



## NFS





Click the **NFS** tab to see the following window.

- Create** Click to add a new NFS client.
- Edit** Select a mount path and click the button to edit the NFS client.
- Delete** Select amount path and click the button to remove the entry from the list.
- Search** Enter the search keyword and click  to search for the specific entry. Click  to clear the search field and see all the entries.
- Page** Displays number of pages. You can enter a page number in the field to jump to the specific page. Click First Page () , Previous Page () , Next Page () or Last page () to search for the group.
- Refresh** Click  to update the group list.



Click the **Create** button to see this window to select a share folder.

**Search** Enter the search keyword and click  to search for the specific entry. Click  to clear the search field and see all the entries.

**Page** Displays number of pages. You can enter a page number in the field to jump to the specific page. Click First Page () , Previous Page () , Next Page () or Last page () to search for the group.

**Refresh** Click  to update the group list.

Click **Next** to continue.



This window is use to configure the permission of the NFS.

**Permission** Use the drop-down menu to assign NFS access rights, Read or Read/Write.

**Root Squash** Select **Root Squash** and the system maps requests from uid/gid 0 to the anonymous uid/gid.

**Host** Enter the host name.

Click **Apply** to save the settings.

**Create NFS Share**

**Permission**

Permission: Read Only

Root Squash: Root Squash

Host:

Previous Apply Cancel

## CIFS

Click the **CIFS** tab to see the following window.








<b>Description</b>	Enter the description of your device.
<b>Workgroup</b>	Click the radio button to choose the system to be in a workgroup. Enter the name of the workgroup in the field.
<b>Active Directory</b>	Click the radio button to choose the system to be in an Active Directory (AD).
<b>User Name</b>	Enter the AD server account name.
<b>Password</b>	Enter the AD server account password.
<b>DNS</b>	Enter a DNS IP address to analyze the domain name of the AD server.
<b>Workgroup</b>	Enter the name of the workgroup which should be the same as the computers on the network.
<b>Realm Name</b>	Enter the AD server domain name.
<b>AD Server Name</b>	Enter the AD server hostname.

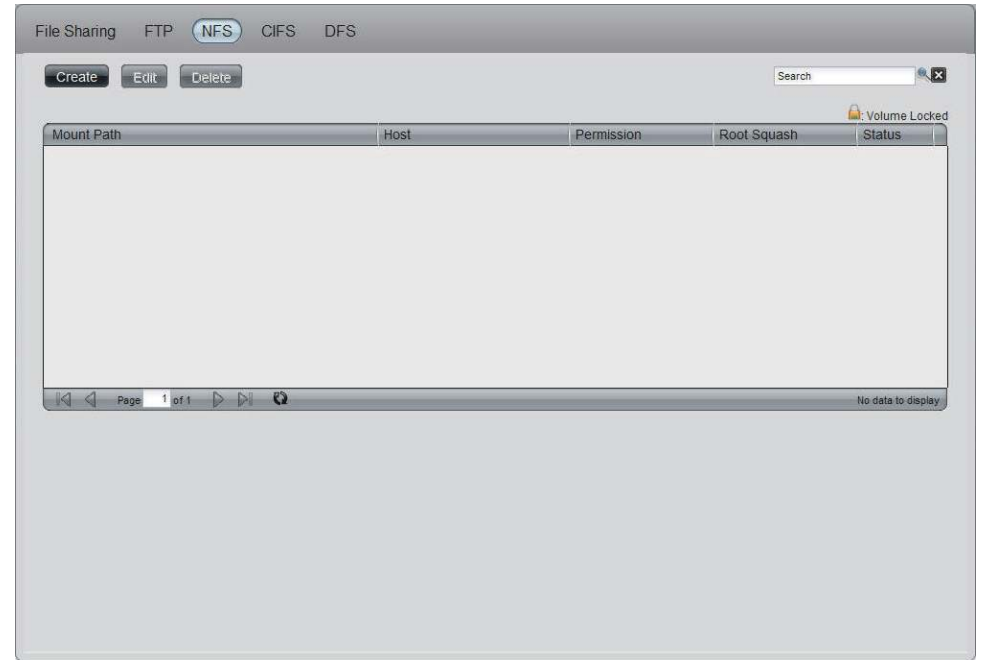
The screenshot shows the CIFS configuration window. At the top, there are tabs for File Sharing, FTP, NFS, CIFS (which is selected and highlighted), and DFS. Below the tabs, the window is divided into two main sections: 'Description' and 'Workgroup Type'. In the 'Description' section, there is a text input field labeled 'Description:' containing the text 'ShareCenter Pro 1200'. In the 'Workgroup Type' section, there are two radio buttons: 'Workgroup' (which is selected) and 'Active Directory'. Below the 'Workgroup' radio button, there is a text input field labeled 'Workgroup:' containing the text 'WORKGROUP'. Below the 'Active Directory' radio button, there are several text input fields: 'User Name:', 'Password:', 'DNS:' (containing '192.168.69.1'), 'Workgroup:', 'Realm Name:', and 'AD Server Name:'. At the bottom right of the window, there are two buttons: 'Apply' and 'Cancel'.

Click **Apply** to save the settings.

## DFS

Click the **DFS** tab to see the following window.

- Create** Click to add a new DFS share.
- Edit** Select a local share name and click the button to edit the DFS share.
- Delete** Select a local share name and click the button to remove the entry from the list.
- Search** Enter the search keyword and click  to search for the DFS share. Click  to clear the search field and see all the entries.
- Page** Displays number of pages. You can enter a page number in the field to jump to the specific page. Click First Page () , Previous Page () , Next Page () or Last page () to search for the group.
- Refresh** Click  to update the group list.



Click the **Create** button to see this window to add a new DFS share.

- Host** Enter an IP address, a host name or a URL in the field.
- Remote share folder** Enter a remote share folder location manually, or click the **Get Host Share Folder** button to search for one.
- Local share name** Enter the local share name in the field.

Click **Apply** to save the settings.

The screenshot shows a dialog box titled "Create DFS Share" with a close button in the top right corner. The dialog contains the following elements:

- Host:** A text input field.
- Remote share folder:** A text input field with a dropdown arrow on the right.
- Local share name:** A text input field.
- Get Host Share Folder:** A button located to the right of the "Remote share folder" field.
- Apply** and **Cancel:** Two buttons at the bottom of the dialog.



## Dynamic DNS

Click the **Dynamic DNS** icon in the Network Services window or the Dynamic DNS link in the left window to configure the dynamic DNS.

- Dynamic DNS** Click the radio button to enable or disable the dynamic DNS function.
- Server Address** Use the drop-down menu to select a dynamic DNS service provider.
- Host Name** Enter the host name.
- Username or Key** Enter the username or key provided by the dynamic DNS service provider.
- Password or Key** Enter the password or key provided by the dynamic DNS service provider.
- Verify Password or Key** Re-type the password or key.
- Timeout** Enter a time in hours for periodic updates from the dynamic DNS provider.
- Status** Displays the current status to the server.

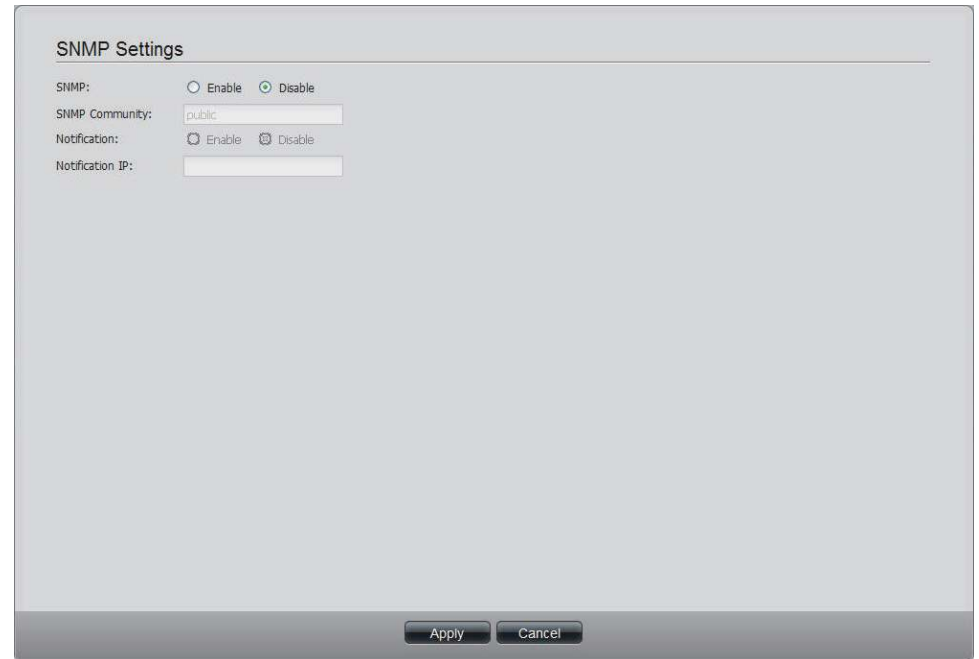
Click **Apply** to save the settings.

# SNMP

Click the **SNMP** icon in the Network Services window or the SNMP link in the left window to configure the SNMP settings. Simple Network Management Protocol (SNMP) is used to monitor the conditions of the network-attached devices.

- SNMP** Enable or Disable SNMP.
- SNMP Community** Enter the name of the SNMP community.
- Notification** Enable or Disable trap support.
- Notification IP** Enter the IP address that will receive the notification.

Click **Apply** to save the settings.



The image shows a screenshot of the 'SNMP Settings' configuration window. The window has a title bar 'SNMP Settings' and a light gray background. It contains the following fields and controls:

- SNMP:** Two radio buttons, 'Enable' (unselected) and 'Disable' (selected).
- SNMP Community:** A text input field containing the value 'public'.
- Notification:** Two radio buttons, 'Enable' (unselected) and 'Disable' (selected).
- Notification IP:** An empty text input field.

At the bottom of the window, there are two buttons: 'Apply' and 'Cancel'.

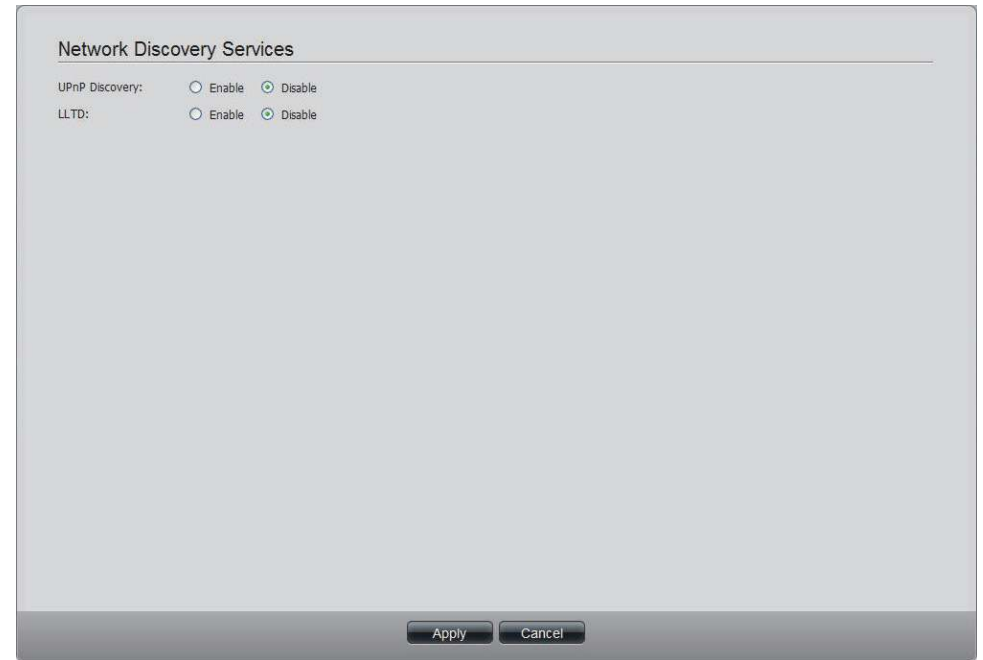
## Network Discovery Services

Click the **Network Discovery Services** icon in the Network Services window or the Network Discovery Services link in the left window to configure the settings.

**UPnP Discovery** Click **Enable** to allow the ShareCenter to be discovered on a network via the UPnP discovery protocol.

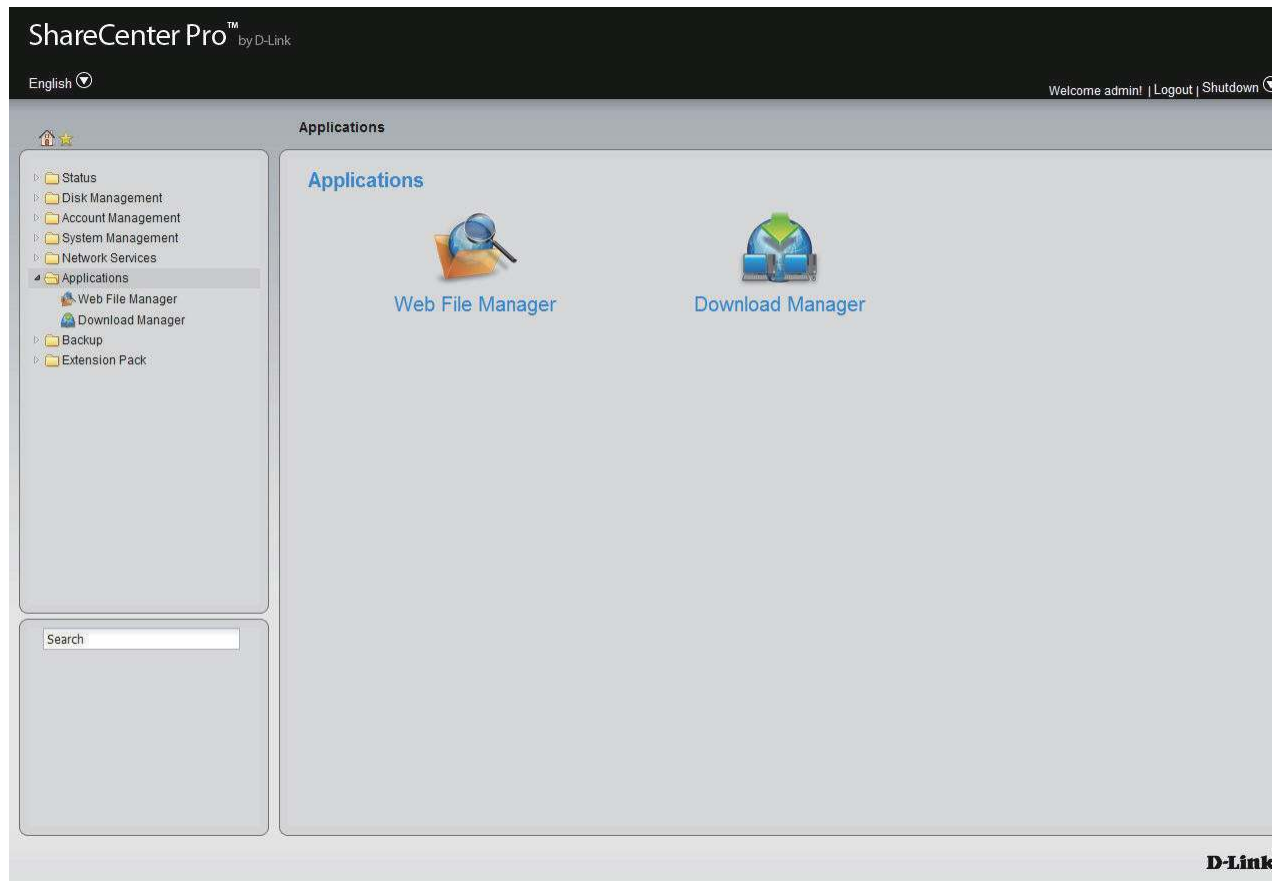
**LLTD** Click **Enable** to allow the ShareCenter to be discovered by the network map under Windows Vista or Windows 7.

Click **Apply** to save the settings.



# Applications

This folder contains the Web File Manager and Download Manager. Click the folder to see the subcategories.



## Web File Manager

Click the **Web File Manager** icon in the Applications window or the Web File Manager link in the left window to configure the settings. This window is used to start a web server for users to upload and download files through the web browser.

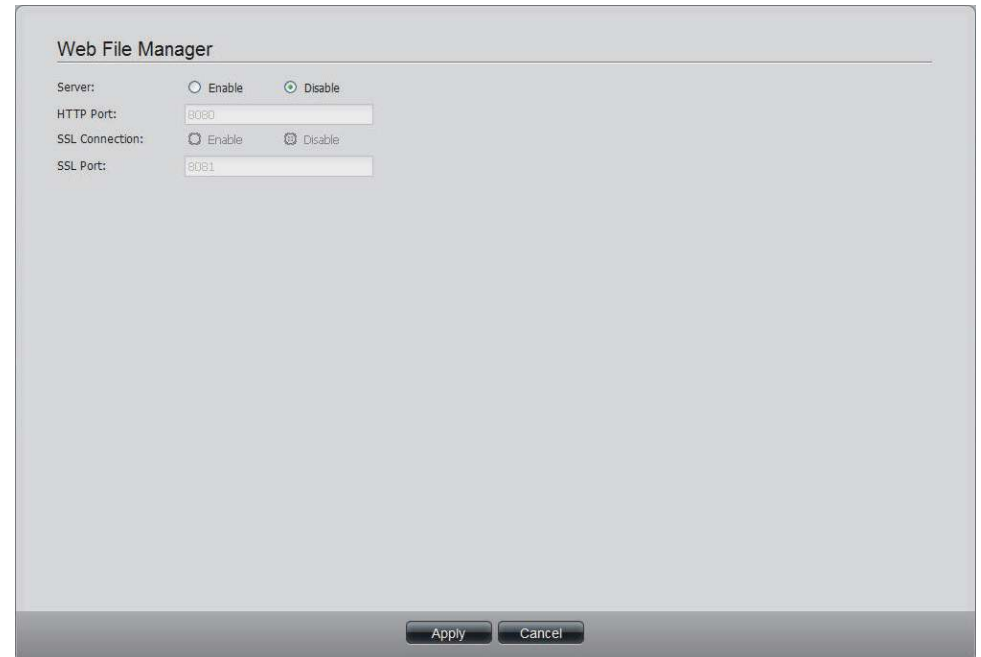
**Server** Click the radio buttons to enable or disable the server.

**HTTP Port** Enter the port number for the function. Port 80 cannot be used as it is used for administration purposes.

**SSL Connection** Click the radio buttons to enable or disable the HTTPS connection.

**SSL Port** Enter the port number for the HTTPS connection.

Click **Apply** to save the settings.




The screenshot shows a configuration window titled "Web File Manager". It contains the following settings:

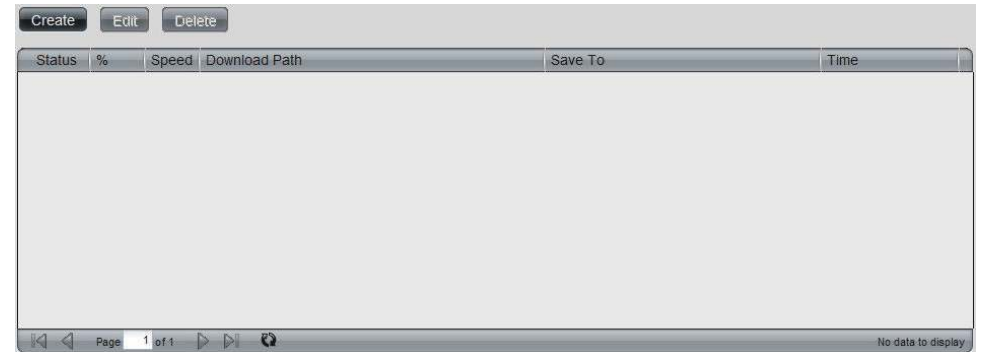
- Server:** Radio buttons for "Enable" and "Disable". The "Disable" option is selected.
- HTTP Port:** A text input field containing the value "8080".
- SSL Connection:** Radio buttons for "Enable" and "Disable". The "Disable" option is selected.
- SSL Port:** A text input field containing the value "8081".

At the bottom of the window, there are two buttons: "Apply" and "Cancel".

## Download Manager

Click the **Download Manager** icon in the Applications window or the Download Manager link in the left window to configure the settings. This window is used to schedule downloading files from FTP or HTTP sites.

- Create** Click to add a new download job.
- Edit** Select an entry and click the button to edit.
- Delete** Select an entry and click the button to remove the entry from the list.
- Page** Displays number of pages. You can enter a page number in the field to jump to the specific page. Click First Page (◀◀), Previous Page (◀), Next Page (▶) or Last page (▶▶) to search for the group.
- Refresh** Click  to update the group list.



## Create a Downloading Job

Click the **Create** button to see the window.

- Download Type** Toggle between the FTP or HTTP download methods.
- Login method** Click the **Account** radio button when a password is required for downloading files. Click the **Anonymous** where there is no password required for downloading files.
- User Name** Enter a user name for downloading.
- Password** Enter a password for downloading.
- Type** Toggle between File or Folder to download the specific file or all files in a specific folder.
- URL** Enter the FTP, HTTP or local site address for the scheduled download. Click the **Test** button to see if the URL can be connected.
- Save To** Click the field to show the available folders. Click the **Create** button to add a new folder. Double-click a folder to select it.



**Create Download Job**

**Download Settings**

Download Type: FTP

Login Method:  Account  Anonymous

User Name: \*\*\*\*\*

Password: \*\*\*\*\*

Type: Folder

URL: ftp:// **Test**


Save To:

**Previous** **Next** **Cancel**

Click **Next** to continue.

This window is used to set the schedule for downloading.

**Recurring Download** Use the drop-down menu to have repeated scheduled download time every day, week or month. Select **None** to disable the recurring download.

**When** Click  to select year and date for downloading.

**Time** Use the drop-down menu to select downloading time.

**Weekly** Select a day of the week for recurring download.

**Monthly** Select the month for recurring download.

Click **Apply** to save the settings.



The screenshot shows a dialog box titled "Create Download Job" with a close button in the top right corner. The main section is titled "Download Schedule" and contains the following settings:

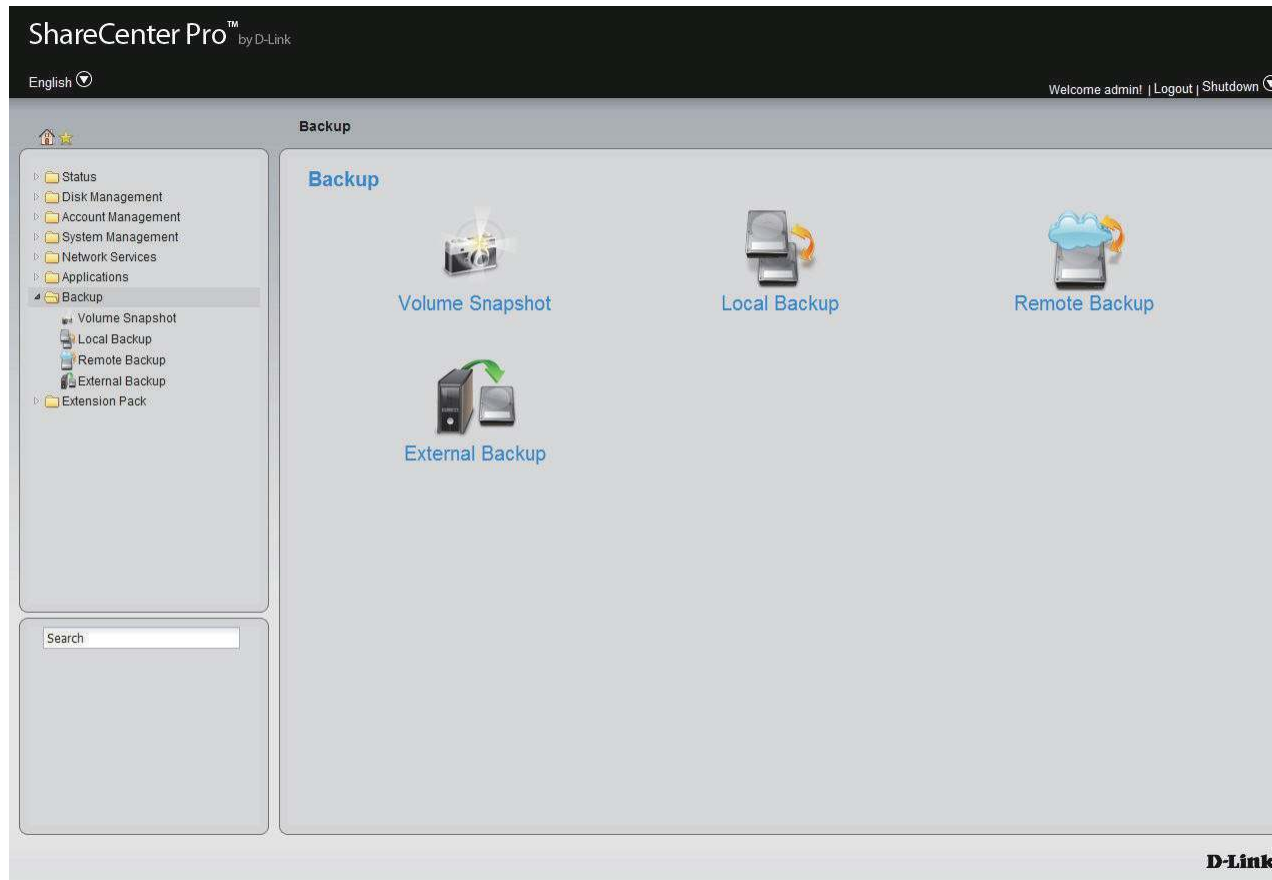
- Recurring Download: None (dropdown), 00 (dropdown), : 00 (dropdown)
- When: 2010-08-30 (calendar icon)
- Time: 00 (dropdown), : 00 (dropdown)
- Weekly: MON (dropdown)
- Monthly: 01 (dropdown)

At the bottom of the dialog box, there are three buttons: "Previous", "Apply", and "Cancel".



# Backup

This folder contains the Volume Snapshot, Local Backup, Remote Backup, and External Backup. Click the folder to see the subcategories.



## Volume Snapshot

Click the **Volume Snapshot** icon in the Backup window or the Volume Snapshot link in the left window to configure the settings. This window is used to create, edit or delete a snapshot job. It also allows you to take a snapshot of a volume. The ShareCenter supports up to 10 snapshot jobs and each job can have maximum 20 snapshots.

- Create** Click to add a new snapshot job.
- Edit** Select an entry and click the button to edit.
- Delete** Select an entry and click the button to remove the entry from the list.
- Take snapshot** Click the button to take a snapshot of a volume.
- Show snapshot** Click the button to show the calendar indicating on which dates a snapshot had been taken.



## Create a Snapshot Job

Click the **Create** button to see the window.

- Folder** Click the field to show the available folders. Click a folder to see the sub-folders. Double-click a folder to select it.
- Count** Use the drop-down menu to select the number of snapshots for this job.
- Schedule** Use the drop-down menu to select manually schedule the job, or schedule to take the snapshot on a daily, weekly or monthly basis.
- Time** Use the drop-down menus to select hour and minute of the day.
- Weekday** Use the drop-down menu to select the day of the week.
- Date** Use the drop-down menu to select the day of the month.

Click **Apply** to save the settings.



**Create Snapshot Job**

Folder:

Count: 10

Schedule: Manually

Time: 00 : 00

Weekday: SUN

Date: 01

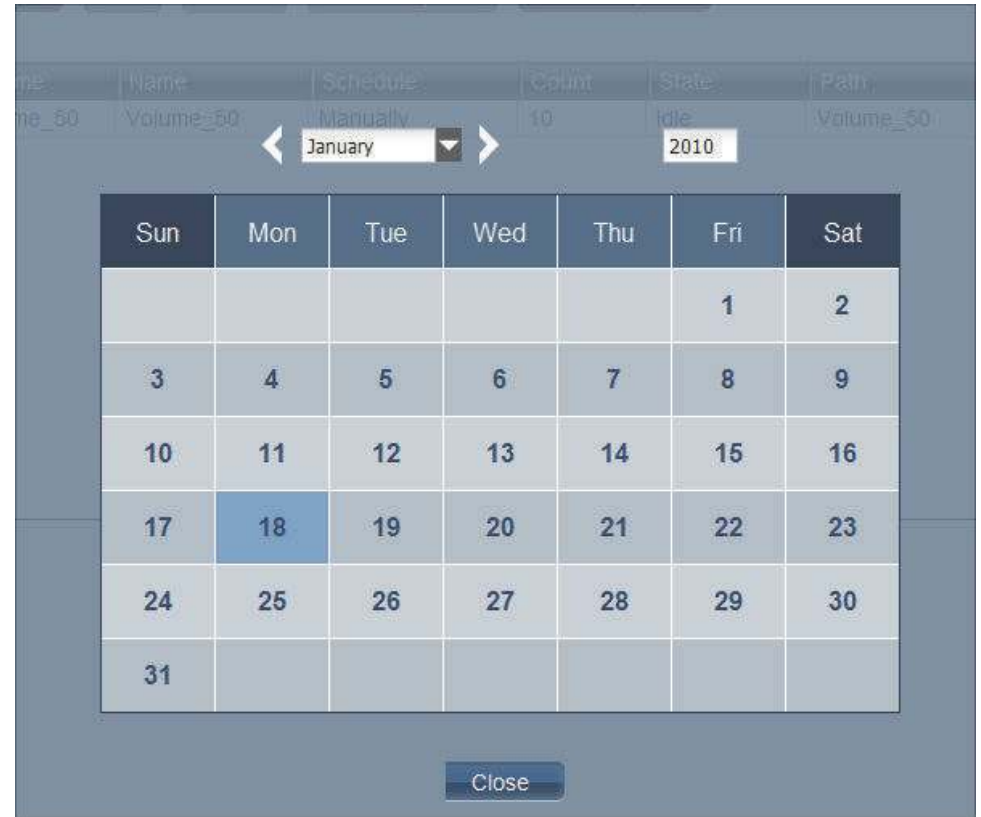
Apply Cancel

## Show Snapshot

Click the **Show Snapshot** button to see the calendar.

**Calendar** Find the year and month of the snapshot on that day. The date cell is highlighted when there are snapshots on that day. Click the cell to view details of the volume's snapshot(s).

Click **Close** to go back to the Volume Snapshot window.



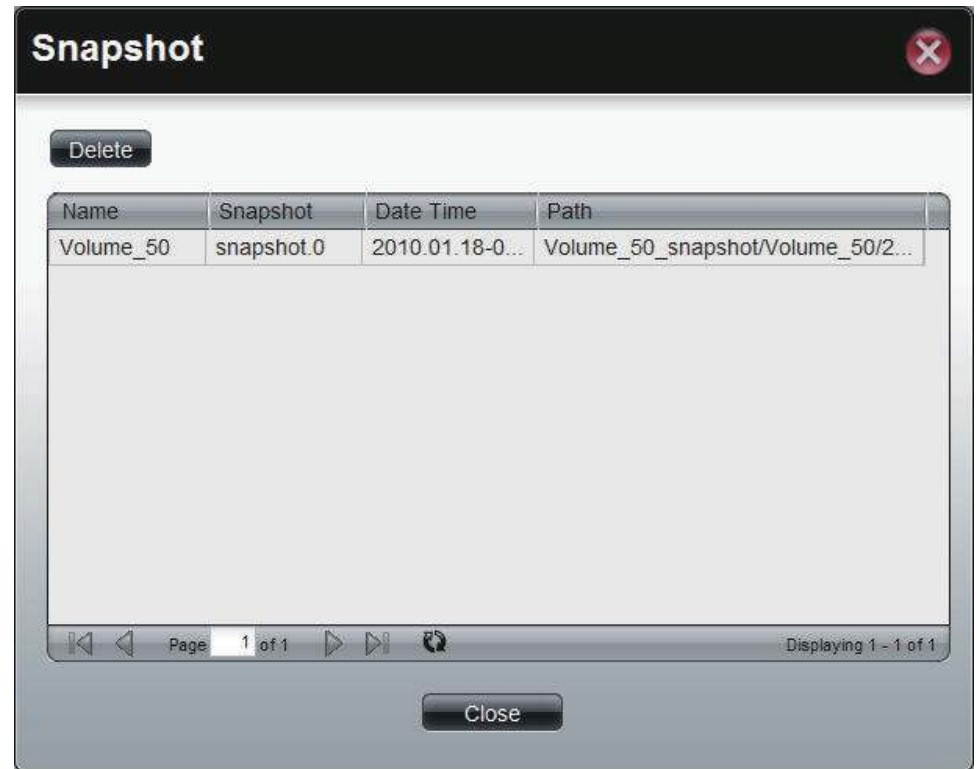
The window displays the volume's snapshot(s) information.

**Delete** Select an entry and click the button to remove the entry from the list.

**Page** Displays number of pages. You can enter a page number in the field to jump to the specific page. Click First Page (⏪), Previous Page (⏩), Next Page (⏪) or Last page (⏩) to search for the group.


**Refresh** Click  to update the group list.

Click **Close** to go back to the previous window.



## Local Backup

Click the **Local Backup** icon in the Backup window or the Local Backup link in the left window to configure the settings. This window allows files and folders to be backed up to local folders.

- Create** Click to add a new backup job.
- Edit** Select an entry and click the button to edit.
- Delete** Select an entry and click the button to remove the entry from the list.
- Page** Displays number of pages. You can enter a page number in the field to jump to the specific page. Click First Page (◀◀), Previous Page (◀), Next Page (▶) or Last page (▶▶) to search for the group.
- Refresh** Click  to update the group list.



## Create a Local Backup Job

Click the **Create** button to see the window.

- Login Method** Click the **Account** radio button when a password is required for the procedure. Click the **Anonymous** where there is no password required for the procedure.
- User Name** Enter a user name for backup.
- Password** Enter a password for backup.
- Type** Toggle between File or Folder to download the specific file or all files in a specific folder.
- Path** Enter the path manually, or click **Local** to locate the path. Click the **Test** button to see if the path can be connected to.
- Save To** Click the field to show the available folders. Click the **Create** button to add a new folder. Double-click a folder to select it.
- Incremental Backup** Tick the check box to enable the incremental backup method. All backups after the first full backup will be on an incremental basis. Only the changes since the last backup will be backed up.

**Create Local Backup Job**

**Local Backup Settings**

Login Method:  Account  Anonymous

User Name:

Password:

Type: Folder

Path:  **Test** **Local**


Save To:

Incremental Backup (Only for Local Backup)

**Previous** **Next** **Cancel**

Click **Next** to continue.

This window is used to set the schedule for local backup jobs.

- Recurring Backup** Use the drop-down menu to enable a recurring backup. This can be done on a daily, weekly or monthly basis. Select **None** to disable the recurring backup.
- When** Click  to select year and date for backup.
- Time** Use the drop-down menu to select the time for backup.
- Weekly** Select a day of the week for recurring backup.
- Monthly** Select the month for recurring backup.

Click **Apply** to save the settings.



The screenshot shows a dialog box titled "Create Local Backup Job" with a close button in the top right corner. Below the title bar is a section titled "Local Backup Schedule". The configuration options are as follows:

- Recurring Backup:** A dropdown menu set to "None", followed by two time selection dropdowns (both set to "00").
- When:** A date selection field showing "2010-08-30" with a calendar icon to its right.
- Time:** Two time selection dropdowns, both set to "00", separated by a colon.
- Weekly:** A dropdown menu set to "MON".
- Monthly:** A dropdown menu set to "01".

At the bottom of the dialog box are three buttons: "Previous", "Apply", and "Cancel".



## Remote Backup

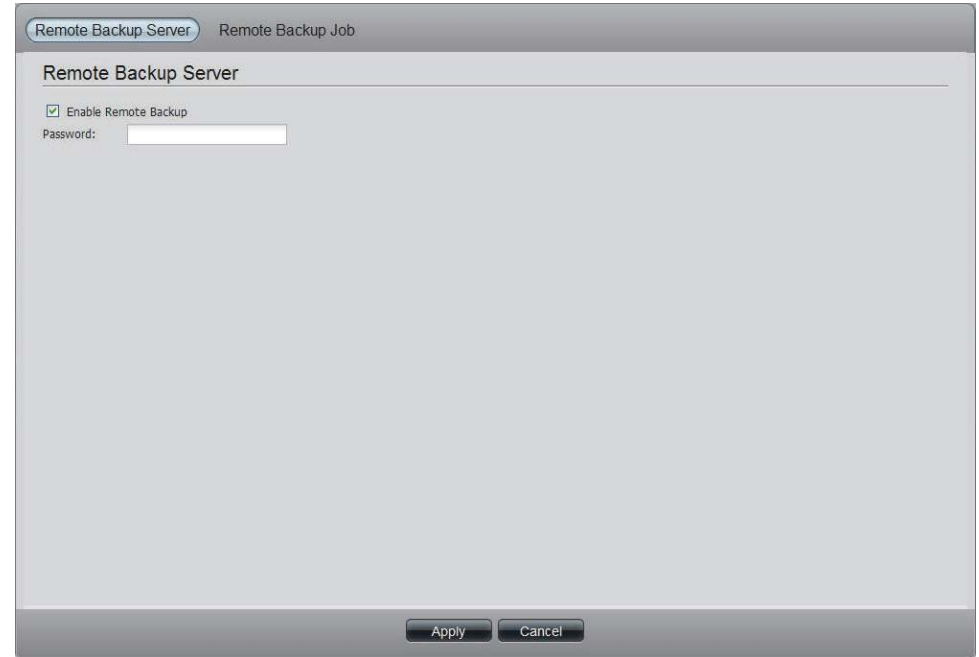
Click the **Remote Backup** icon in the Backup window or the Remote Backup link in the left window to configure the remote backup.

### Remote Backup Server

Click the **Remote Backup Server** tab to see the following window.


- Enable Remote Backup** Tick the check box to enable the function.
- Password** Enter the password for backing up files and folders from or to the ShareCenter. This is the remote backup password. The password for the remote NAS should be the same as the password of the ShareCenter.

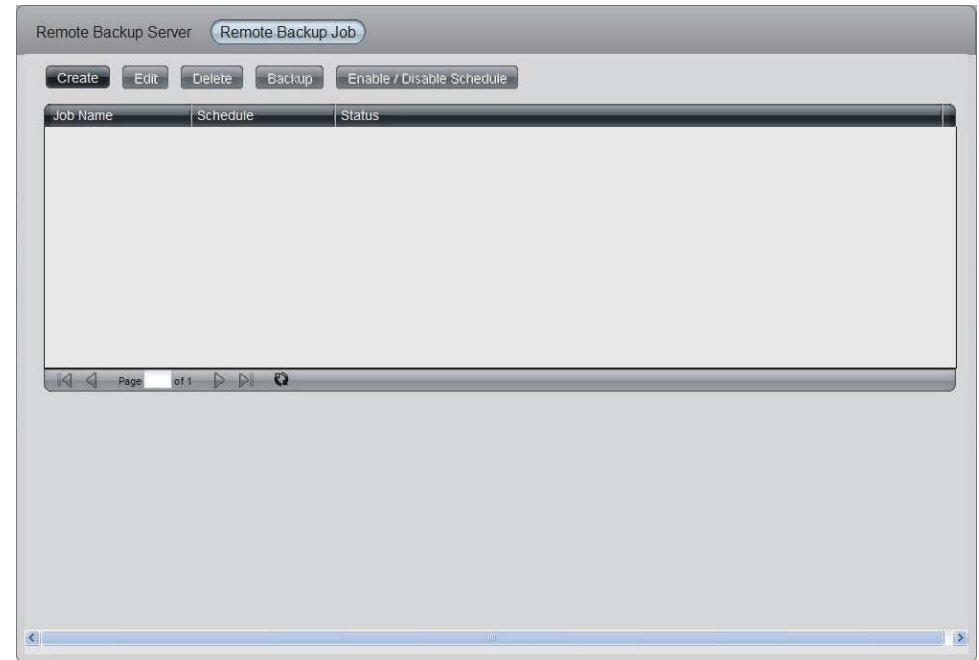
Click **Apply** to save the settings.



## Remote Backup Job

Click the **Remote Backup Job** tab to see the following window.

- Create** Click to add a new remote backup job.
- Edit** Select an entry and click the button to edit.
- Delete** Select an entry and click the button to remove the entry from the list.
- Backup** Click the button to back up.
- Enable/Disable Schedule** Click the button to enable or disable the schedule remote backup function.
- Page** Displays number of pages. You can enter a page number in the field to jump to the specific page. Click First Page (⏪), Previous Page (⏩), Next Page (⏭) or Last page (⏮) to search for the group.
- Refresh** Click  to update the group list.



Click **Create** to see the window.

**Server Type** Use the drop-down menu to select between D-Link NAS Server or Rsync Server.

Click **Next** to continue.



This window allows you to configure the source settings.

**Job Name** Enter the name of the remote backup job.

**Folder Path** Click the field to select the source file/folder to be backed up remotely.

Click **Next** to continue.



The screenshot shows a dialog box titled "Create Remote Backup Job" with a close button in the top right corner. Below the title bar, the section "Source Settings" is displayed. It contains two input fields: "Job Name:" and "Folder Path:". At the bottom of the dialog, there are three buttons: "Previous", "Next", and "Cancel".

This window is used to configure the destination settings.

- IP of Remote Server** Enter the IP address of the server.
- Password** Enter the password of the destination server.
- Encryption Support** Tick the check box to enable SSH encryption.
- Keep Existing File** Tick the check box to keep the existing file the same (not overwrite) at the remote server and create another backup copy.

Click **Next** to continue.

The screenshot shows a dialog box titled "Create Remote Backup Job" with a close button in the top right corner. Below the title bar, the section is titled "Destination Settings (D-Link NAS Server)". There are two text input fields: "IP of Remote Server:" and "Password:". Below these are two checkboxes: "Encryption Support" and "Keep Existing File". At the bottom of the dialog, there are three buttons: "Previous", "Next", and "Cancel".

This window is used to configure the destination path.


**Destination Path** Click the field to select the destination path.

Click **Next** to continue.



This window is used to schedule the remote backup job.

**Recurring Backup** Use the drop-down menu to enable a recurring remote backup. This can be done on a daily, weekly or monthly basis. Select **Backup now** to start the backup.

**When** Click  to select year and date for backup.

**Time** Use the drop-down menu to select the time for backup.

**Weekly** Select a day of the week for recurring backup.

**Monthly** Select the month for recurring backup.

Click **Apply** to save the settings.



**Create Remote Backup Job**

**Destination Schedule**

Recurring Backup: Backup now

When: 2010-09-17

Time: 00 : 00

Weekly: MON

Monthly: 01

Previous Apply Cancel

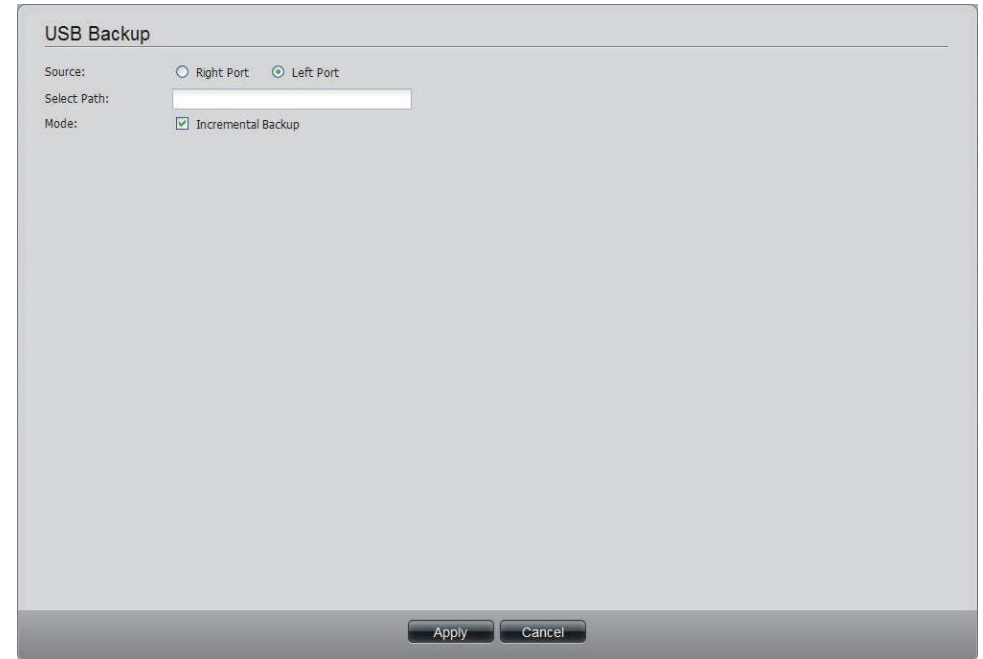
## External Backup

Click the **External Backup** icon in the Backup window or the External Backup link in the left window to configure the settings. This window is used to back up data to external devices.

**Source** Click the USB port that is connected to an external USB storage device.

**Select Path** Click the field to show the available folders. Click the **Create** button to add a new folder. Double-click a folder to select it.

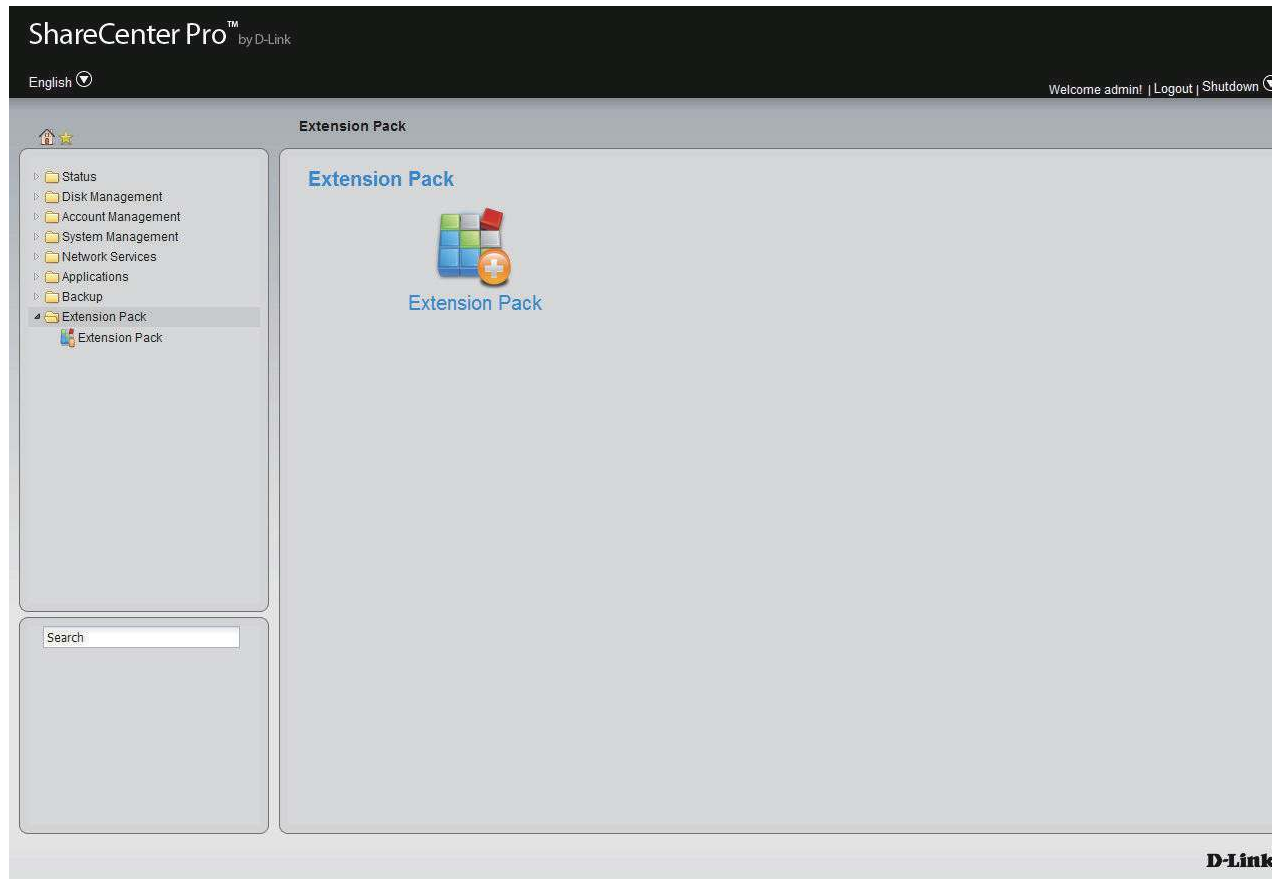
**Mode** Tick the **Incremental Backup** check box to enable the incremental backup method. All backups after first full backup will be on an incremental basis. Only the changes since the last backup will be backed up.





# Extension Pack

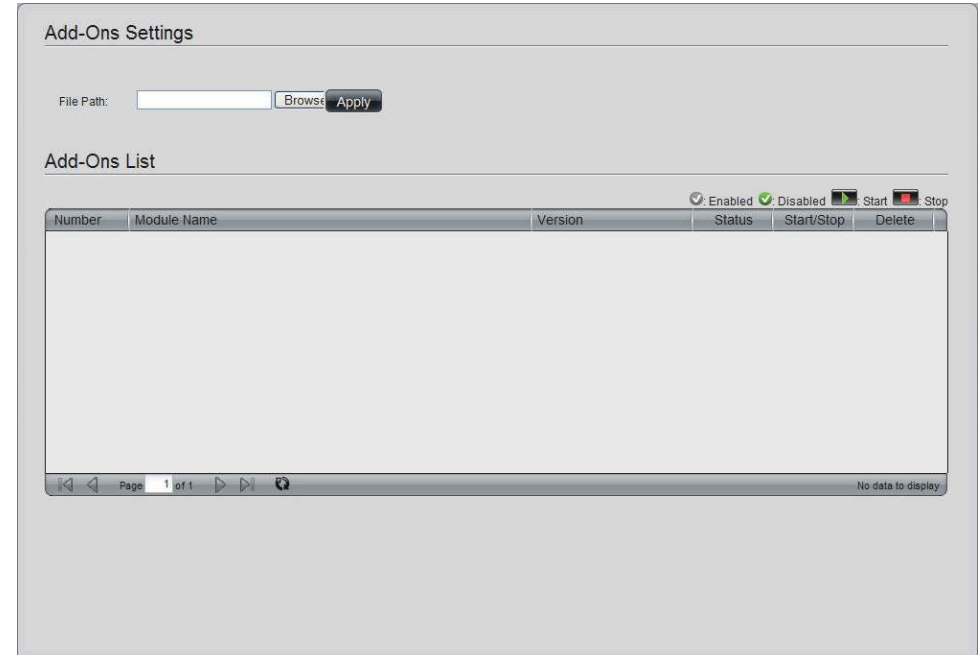
This folder contains the Extension Pack. Click the folder to see the subcategories.



## Extension Pack

Click the **Extension Pack** icon in the Extension Pack window or the Extension Pack link in the left window to configure the add-ons.

- File Path** Click the **Browse** button to locate the file. Click **Apply** to add the file to the Add-ons list.
- Add-ons List** Displays a list of all add-ons modules.
- Status** Displays if the module is currently activated (Enabled) or deactivated (Disabled).
- Start/Stop** Activate/Deactivate the module.
- Delete** Remove the add-on module from the list.
- Refresh** Displays number of pages. You can enter a page number in the field to jump to the specific page. Click First Page (◀◀), Previous Page (◀), Next Page (▶) or Last page (▶▶) to search for the group.
- Page** Click 🔄 to update the group list.



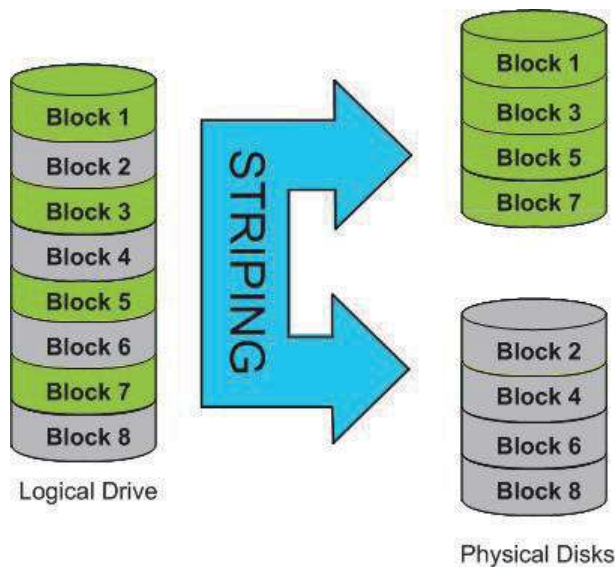
# Knowledge Base

## What is RAID?

RAID, short for Redundant Array of Independent Disks, is a combination of two or more disks with the aim of providing fault tolerance and improving performance. There are several different levels of RAID, with each one providing a different method of sharing or distributing data among the drives. The ShareCenter supports **JBOD**, **RAID 0**, **RAID 1**, **RAID 5**, **RAID 6** and **Standalone**.

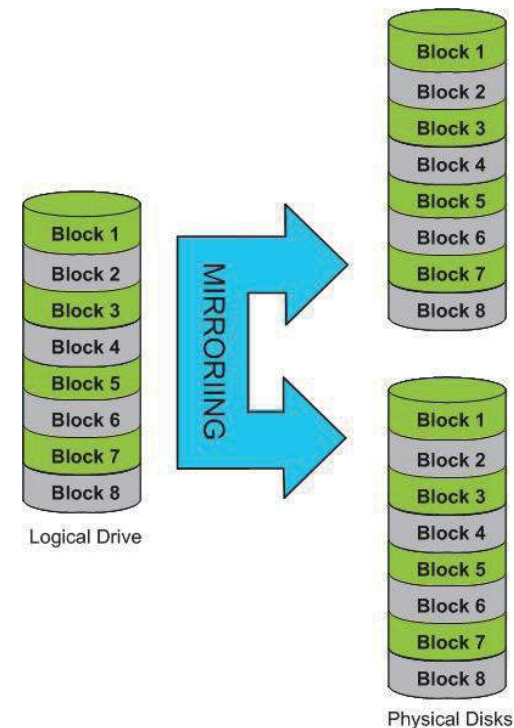
**RAID 0** RAID 0 provides data striping, which spreads out blocks of data over all drives, but does not provide data redundancy.

Although performance is improved, the lack of fault tolerance means that if one drive fails, all data in the array will be lost.



**RAID 1** RAID 1 provides mirroring over multiple disks, with the same read/write speed of a single disk. A RAID 1 array can only be as large as its smallest member disk.

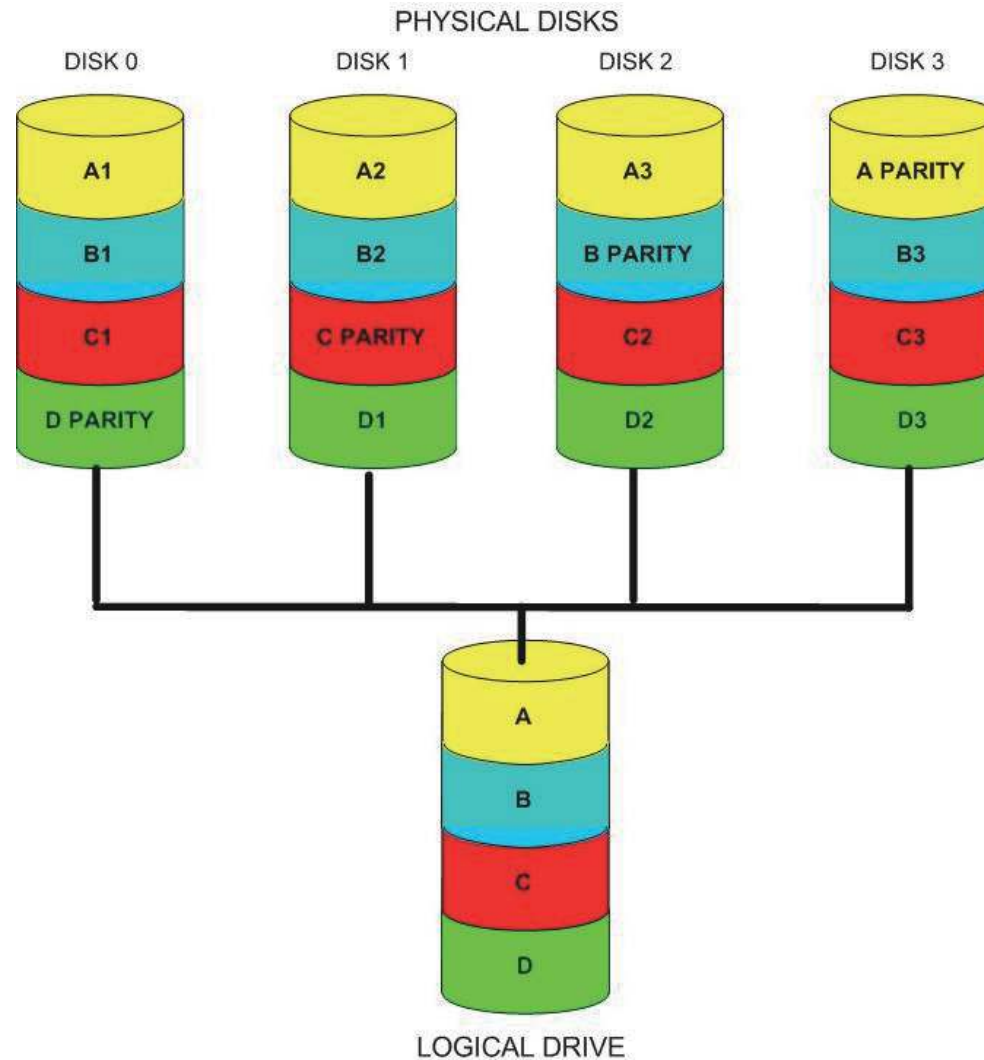
Because the data is stored on multiple disks, RAID 1 provides fault tolerance and protection, in addition to performance advantages.



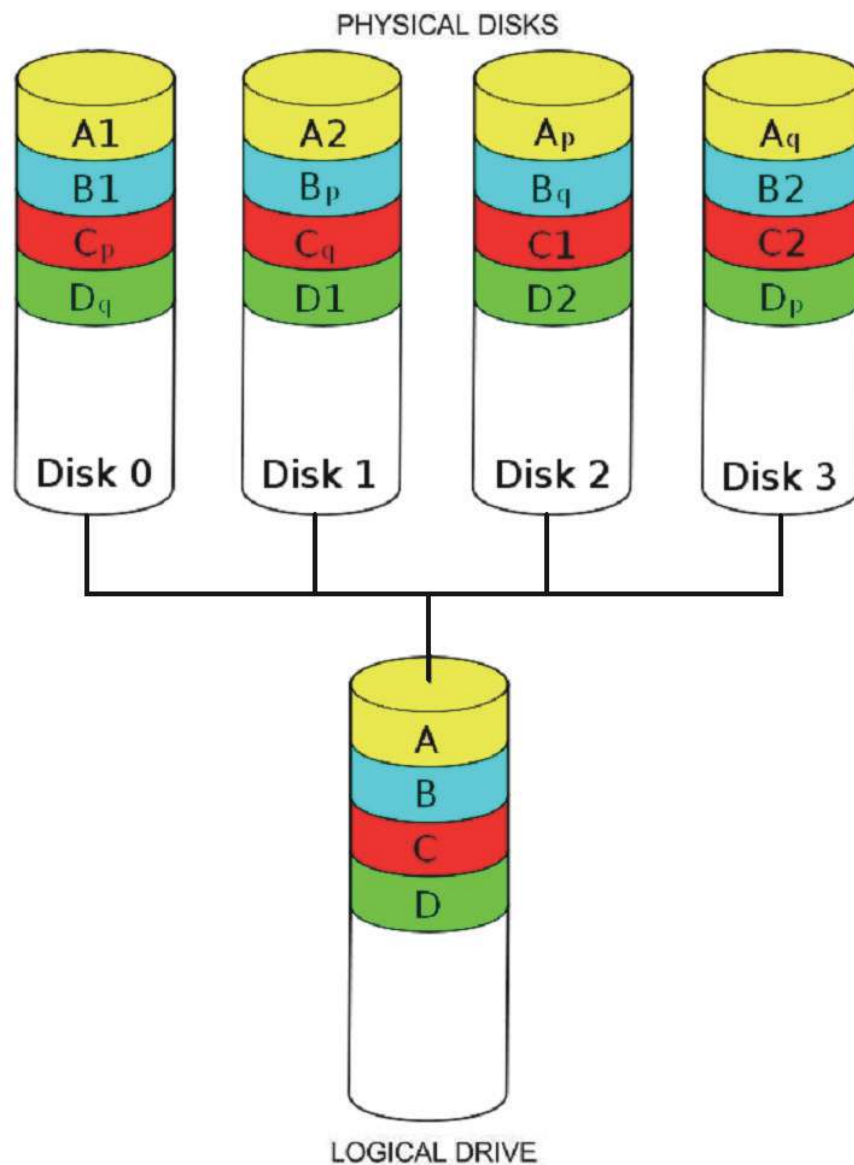
**RAID 5** RAID 5 provides data striping with distributed parity, which stores information that can be used to reconstruct data. A RAID 5 array will be the size of all the combined disks capacity less the capacity of one disk, e.g. If there are 4x 80GB disks in the array, the arrays capacity will be 240GB (3x80GB).

Implementing RAID 5 on the ShareCenter allows it to continue operating even if one of the disks fails.

The diagram below indicates the operation of RAID 5:

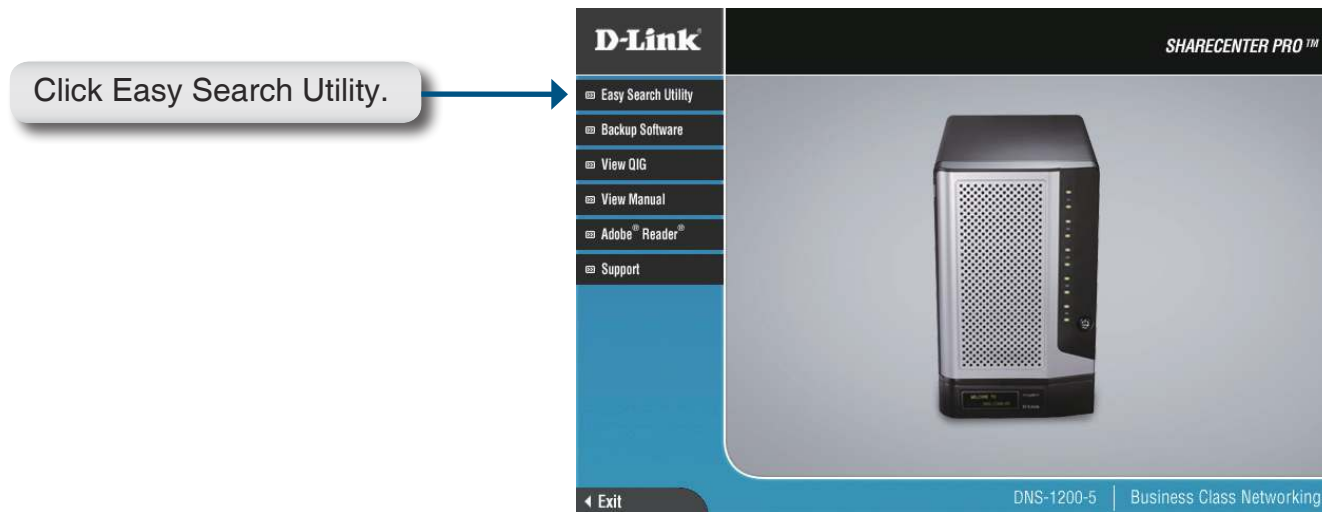


- RAID 6** RAID 6 is an extension of RAID 5. It adds an additional parity block by using block-level striping with two parity blocks distributed across all the member disks. RAID 6 allows the array to continue operating even if two of the disks fail. The diagram below indicates the operation of RAID 6:



# Mapping a Drive

You can use the D-Link Easy Search Utility to map drives to your computer. Insert the ShareCenter CD into your CD-ROM drive.



The Easy Search Utility will load and detect any ShareCenter devices that are on the local network.

If the ShareCenter you are working with does not show up in the device list, click **Refresh**.

Highlight an available ShareCenter.



Available volumes will be displayed under Drive Mapping. Highlight the volume you want to map.

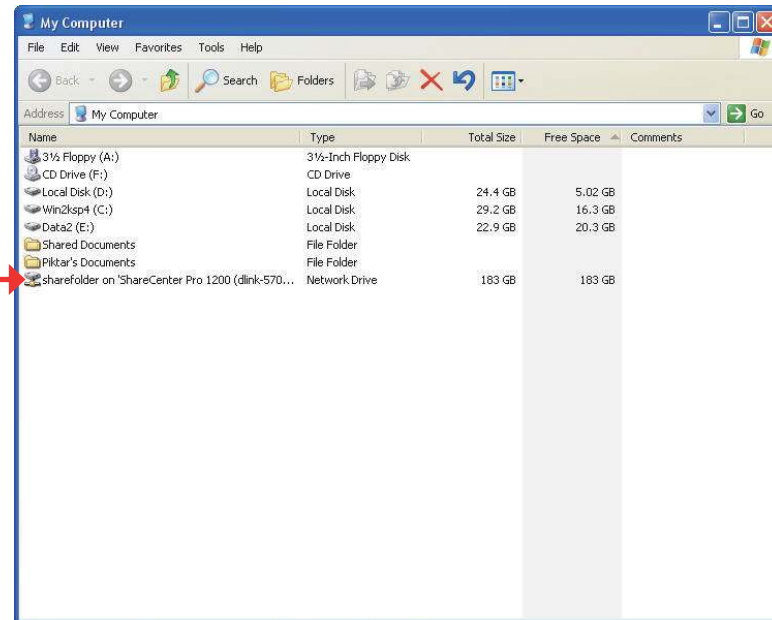
Select an available drive letter from the drop-down menu and click **Connect**.

Once connected, your mapped drive(s) will appear in My Computer.

Double-click the My Computer icon on your desktop.



Double-click the mapped drive to access the files and folders.



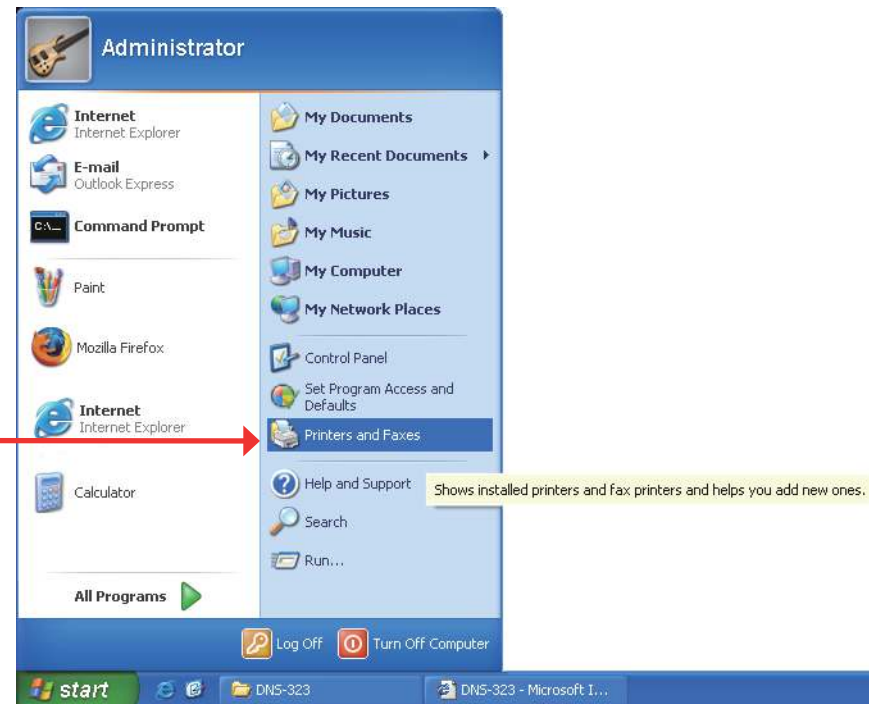


# USB Print Server

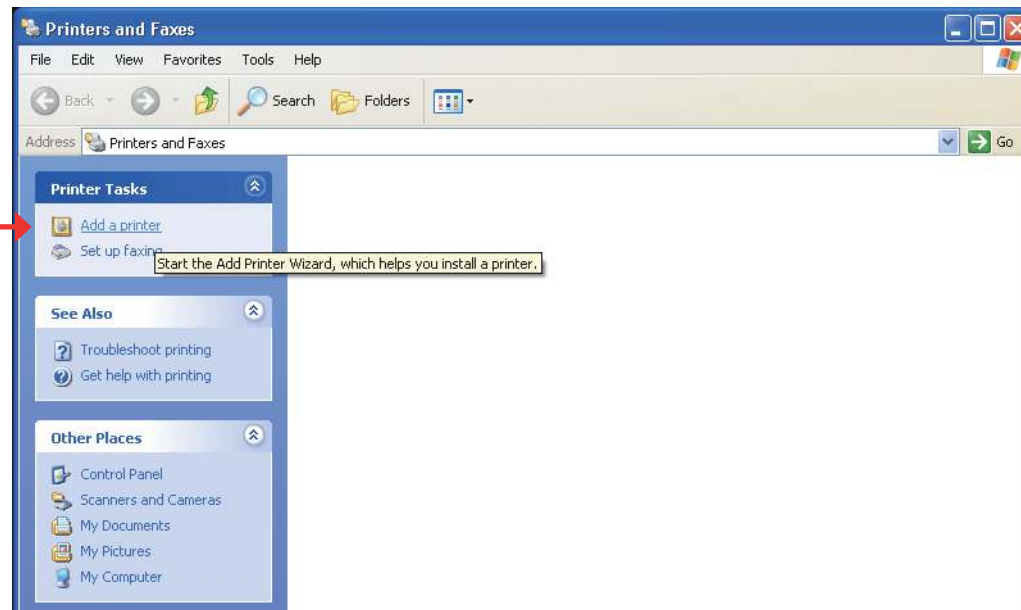
The ShareCenter features a built-in USB print server, giving users the ability to share a printer on their local network. Connect a USB printer to the USB port on the back of the ShareCenter. It is important to ensure that any of the printer manufacturer's drivers are already installed on any computer you want to print from.

To add a printer:

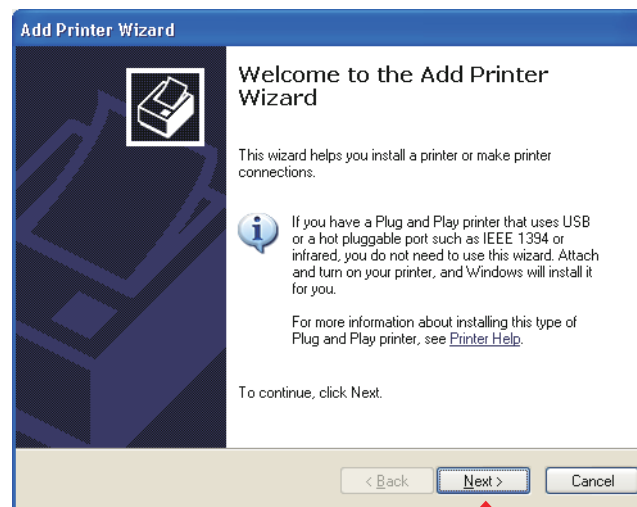
Click **Start** and select **Printers and Faxes**.



Select **Add a printer.**



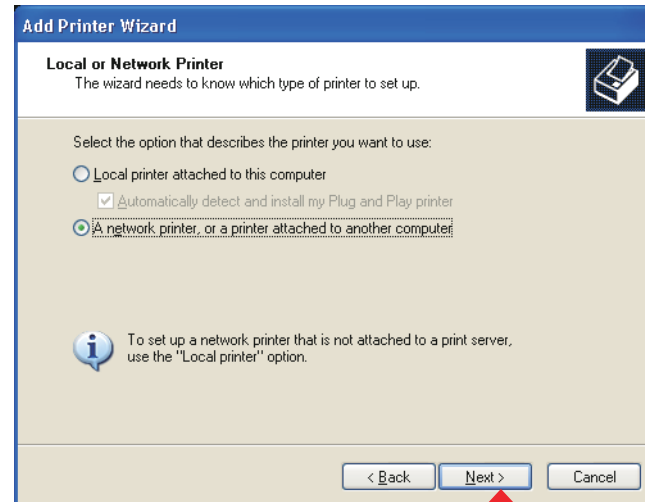
The Windows® Add Printer Wizard will launch:



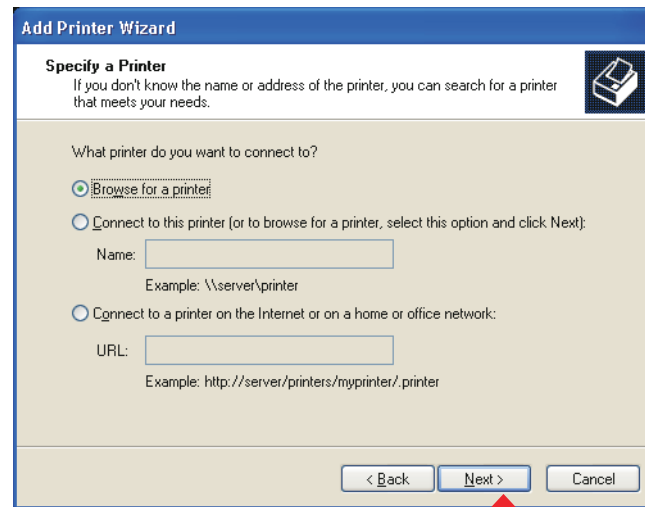
Click **Next** to continue.

When prompted to choose a local, or network printer, select **“A network printer, or a printer attached to another computer.”**

Click **Next** to continue.



Select **“Browse for a printer”** and click **Next** to continue.



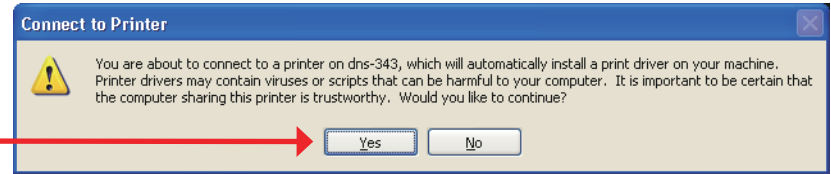
Select Double-click **DNS-1200** from the Shared Printers list to expand the tree.



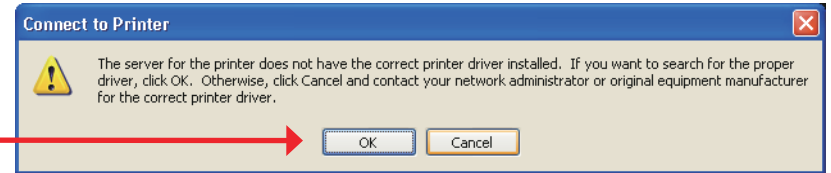
Select the available USB printer, and click **Next** to continue.

The following printer driver messages will appear:

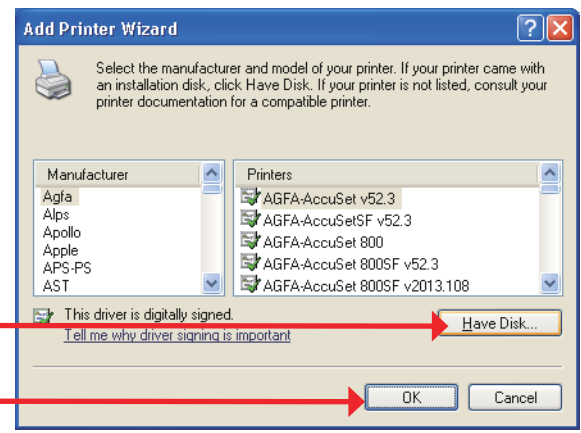
Click **Yes** to continue.



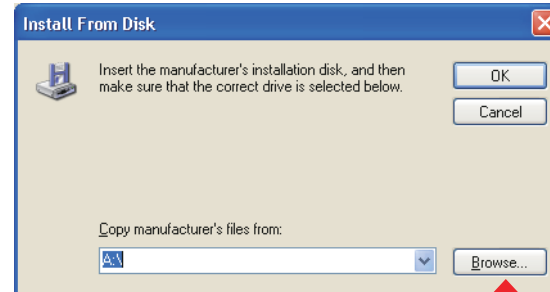
Click **OK** to continue and select a printer driver.



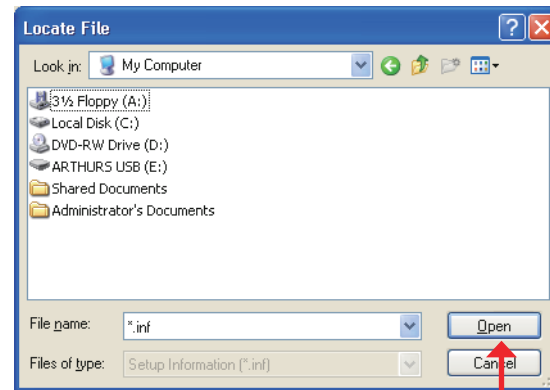
Select the appropriate printer driver from the list and click **OK** to complete the wizard. If the driver is not in the list, select **Have Disk**.



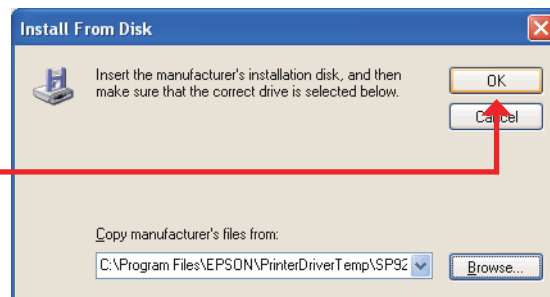
Insert the print driver CD or browse to the appropriate directory.

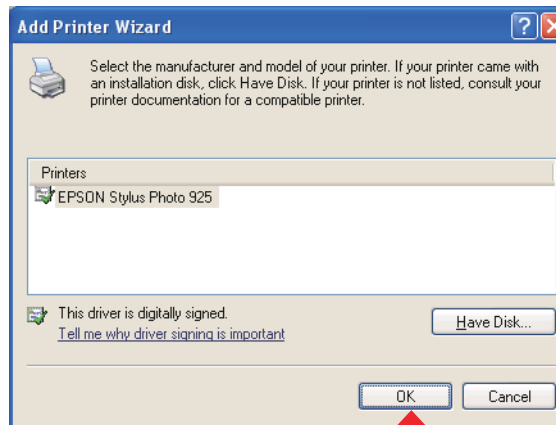


Select the appropriate driver file, and click **Open** to continue.

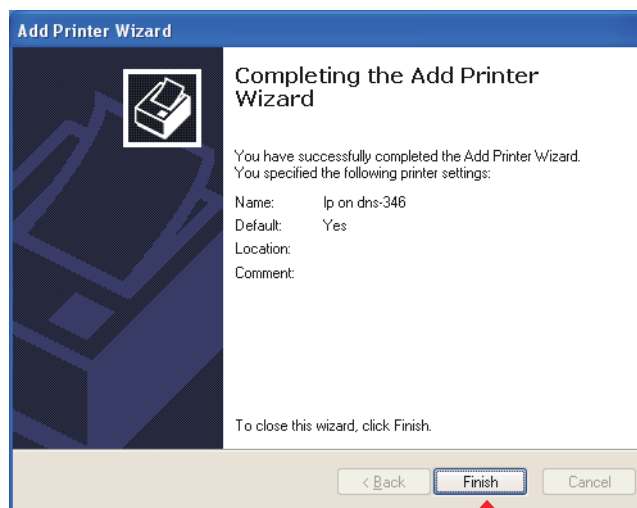


Click **OK** to continue.



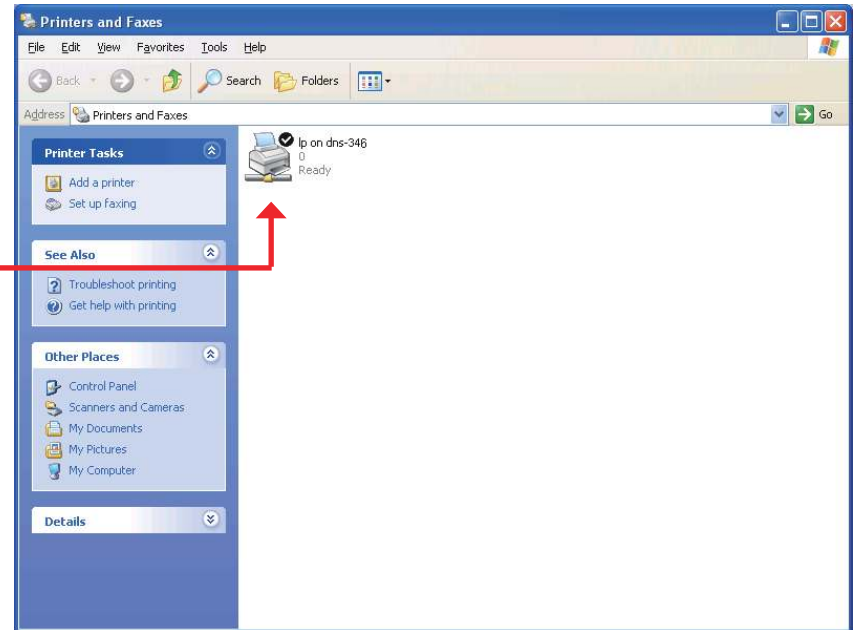


Verify the driver is correct, and click **OK** to continue.



The wizard will install the printer drivers, and return a completion screen. Click **Finish**.

The printer should now appear as an available printer.





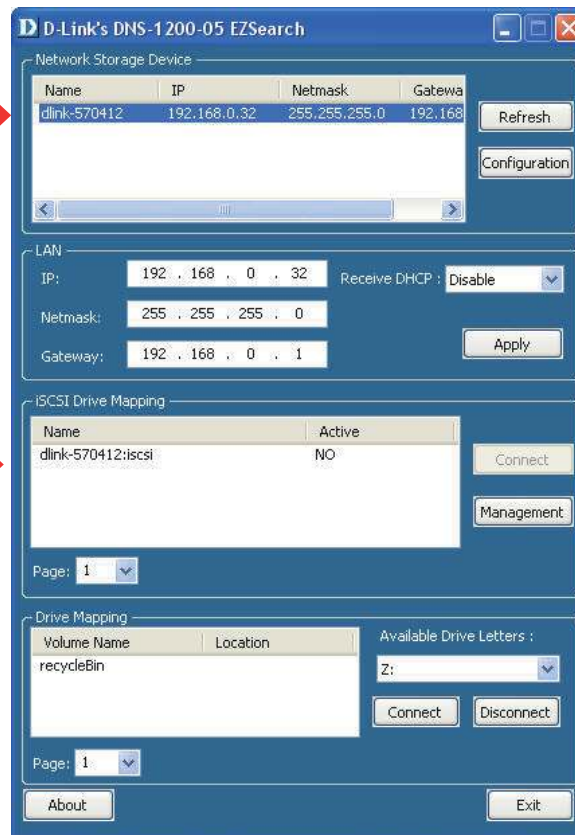
# iSCSI Drive Mapping

The iSCSI Drive Mapping is used to manage the iSCSI settings on the ShareCenter.

Carry out the following to configure the iSCSI settings:

1. Click the listed ShareCenter.

2. The available iSCSI target names in the iSCSI Drive Mapping section appear.

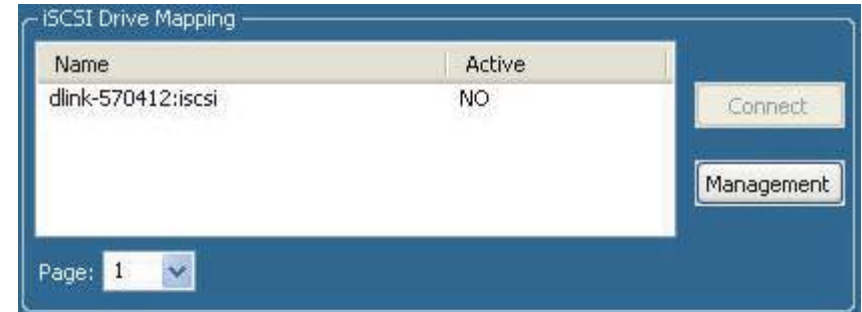


**Note:** If you cannot see the latest list, click the **Refresh** button to update the status.

**Note:** You will need to create iSCSI volume in the **Disk Management** -> **iSCSI Target**. Click the **iSCSI Targets** tab to see the iSCSI target name in this section.

The different parameters in the iSCSI Drive Mapping section are described below:

<b>Name</b>	Displays the names of the available iSCSI targets on the ShareCenter.
<b>Active</b>	Displays <i>Yes</i> if the target is active. Displays <i>No</i> if the target is not active.
<b>Connect/Disconnect</b>	Choose a target from the list and click the <b>Connect/Disconnect</b> button to activate/deactivate the Target. If CHAP authentication has been enabled, then a username and password will be required.
<b>Management</b>	Click the button to see the Management window. The window allows you to add, delete, mount and unmount the partition.



## Configuring Targets

1. When attempting to connect a target for the first time, choose the target from the list



2. Click the **Connect** button.

3. If the CHAP is enabled, you will see this window appears requesting CHAP User and Password.

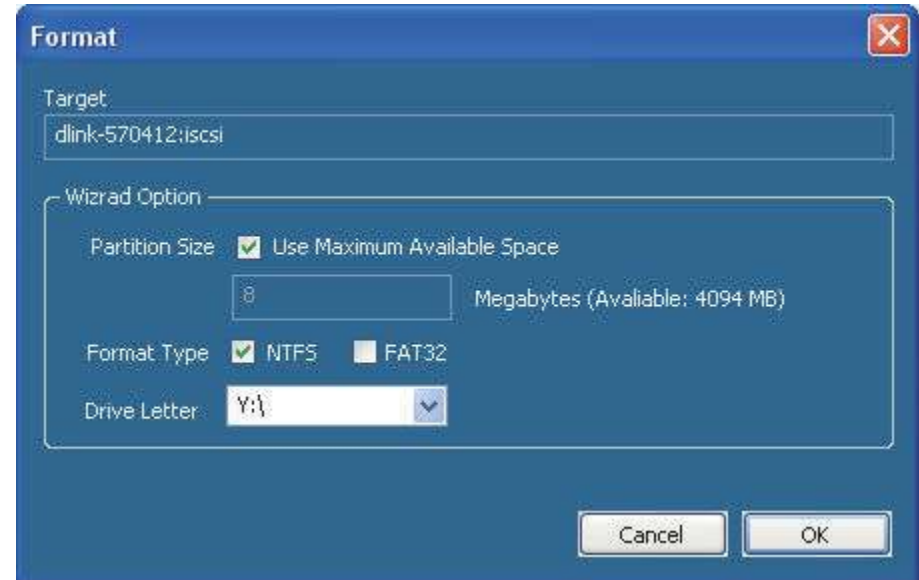


You will see the Format window.

The different parameters in the Format window are described below:

- Target** Displays the iSCSI target name you chose.
- Partition Size** Tick the **Use Maximum Available Space** checkbox to specify that the maximum available space on the disk will be used to create the new partition. To specify a size un-tick the checkbox and type in the capacity size of the partition (in megabytes) in the **Megabytes** field.
- Format Type** Choose whether to format the new partition with *NTFS* or *FAT32* by ticking the appropriate checkbox.
- Drive Letter** Choose the drive letter that you want to allocate to the iSCSI partition from the drop-down menu.

When you have finished configuring the Target Settings, click the **Format** button to see the window below



## Configuring Disks

This window appears after clicking the **Format** button. Or, select a target in the iSCSI Drive Mapping list and click the **Management** button to see the window.

The Management window allows you to manage partition on the disks installed in the ShareCenter and Mount / Unmount the disks installed in the ShareCenter.

The Disk Management section displays the following parameters:

<b>Disk</b>	Displays the ID number of the disk installed in the ShareCenter.
<b>Partition</b>	Displays the partition number of the disks partition.
<b>Volume</b>	Displays the drive letter that the partition is mapped to on the client machine.
<b>File System</b>	Displays the File System that the partition was formatted with.
<b>Capacity</b>	Displays the total capacity of the partition.
<b>Target</b>	Displays the iSCSI target name of the partition.



## Adding a new partition

Right-click an unallocated partition and click **Add**.



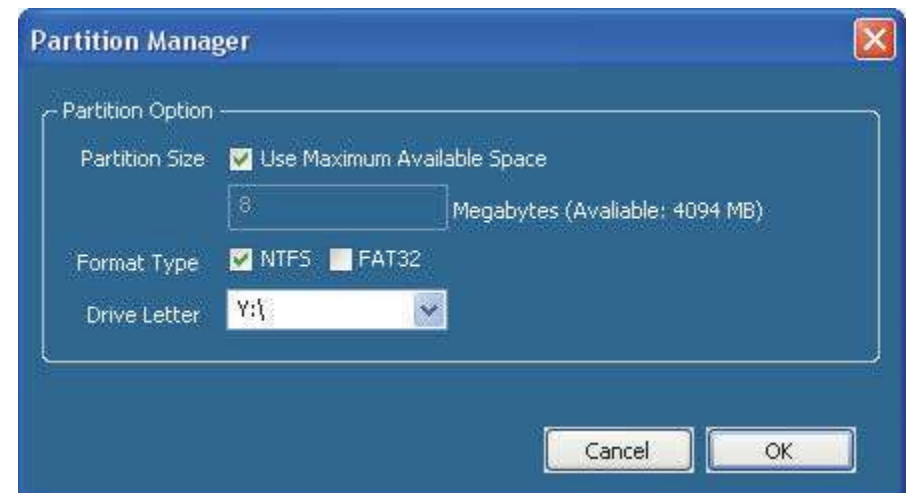
The Partition Manager window opens:

To add a partition, configure the parameters as explained below:

**Partition Size** Tick the **Use Maximum Available Space** check box to specify that the maximum available space on the disk will be used to create the new partition. To specify a size, un-tick the check box and type in the capacity of size of the partition (in megabytes) in the **Megabytes** field.

**Format Type** Choose whether to format the new partition with *NTFS* or *FAT32* by ticking the appropriate checkbox.

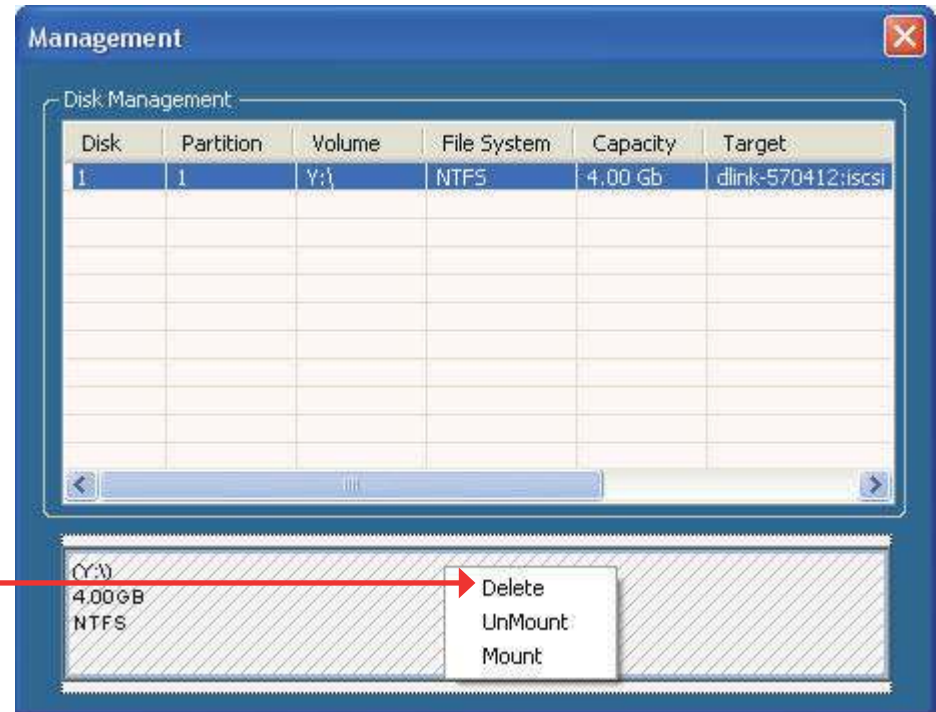
**Drive Letter** Choose the drive letter that you want to allocate to the iSCSI partition from the drop-down menu.



When you have finished configuring the partition settings, click the **Format** button to add the new partition.

## Deleting an existing partition

Right-click an existing partition and click **Delete**.



## Mounting Disks

When a partition is not mounted, a \* (star) symbol will appear in the Volume column in the **Disk Management** list.

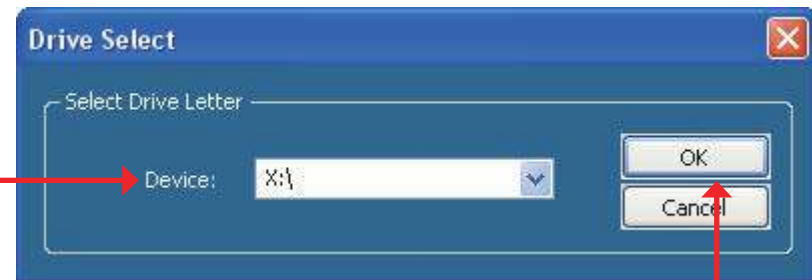
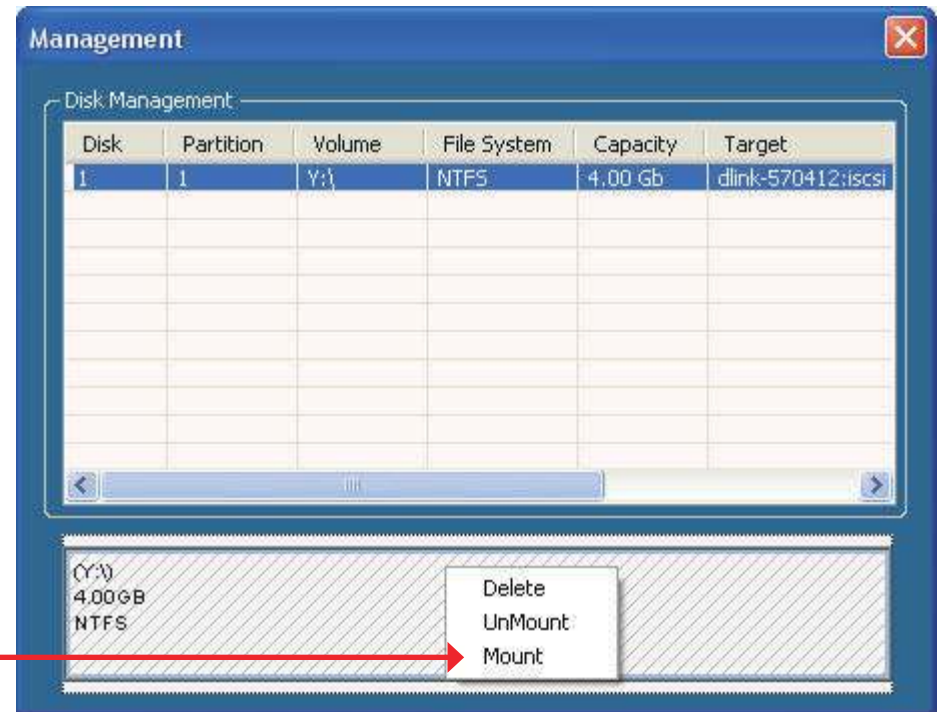
Carry out the following steps to mount a disk:

1. Right-click an unmounted partition and click **Mount**.

The Drive Select window appears.

2. Select the drive letter in the **Device** drop-down list.

3. Click the **OK** button.

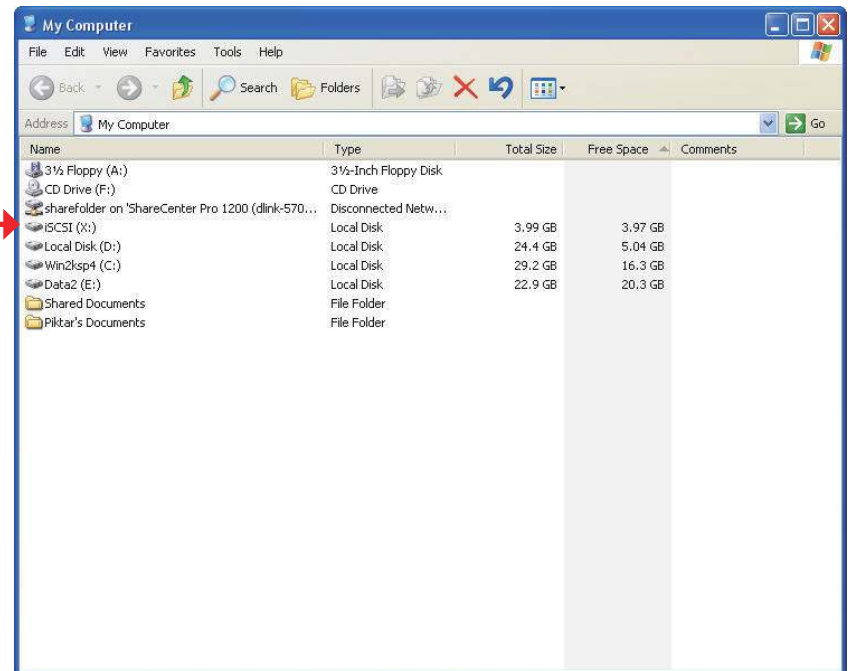




4. The mounted disk is displayed in the **Disk Management** list.



3. The newly mounted disk is displayed in the My Computer window and can be used as if it was a locally attached disk.



# Hot-swap Function

The ShareCenter supports hot-swap drive trays. You can eject or insert 3.5" SATA hard drive(s) when the ShareCenter is operating.

However, if the hard drives are created into various levels of RAID, you cannot hot swap all the hard drives at the same time. Hot swapping all the hard drives will cause a loss of data, and the RAID volume will need to be re-created again. Different levels of RAID required various numbers of hard drives remaining in the ShareCenter.

**Standalone/JBOD/RAID 0:** The data will be lost and the volume will crash, if any of the hard drives are hot swapped.

**RAID 1:** You can hot swap the hard drives as long as one of the hard drives in the mirror is still in the ShareCenter. Removal of all hard drives will result in a loss of all data and volume will have crashed.

**RAID 5:** In a RAID 5 volume, it is only possible to hot swap 1 hard drive at a time without losing all data. This is because a RAID 5 volume can only tolerate the loss of 1 hard drive and still continue to work. After hot swapping a hard drive, the volume must first be rebuilt before another hard drive can be hot swapped, otherwise this will also result in a loss of all data and the RAID volume will have crashed.

**RAID 6:** In a RAID 6 volume, it is possible to hot swap 2 hard drives at a time without losing all data. This is because a RAID 6 volume can only tolerate the loss of 2 hard drives and still continue to work. After hot swapping 2 hard drives, the volume must first be rebuilt before another hard drive can be hot swapped, otherwise this will also result in a loss of all data and the RAID volume will have crashed.

You can check the RAID configuration from the **Disk Management** -> **Volume** page on the Web UI. When hot swapping hard drives, you will see the changes in the **Disk(s)** column. Hot swap one of the hard drives, make sure the Disk number has disappeared from the **Disk(s)** column, and then hot swap the next hard drive.

# Storing non-English Character Files

By default the ShareCenter will support Unicode which is an industry standard allowing computers to consistently represent and manipulate text expressed in most of the world's writing formats.

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**CE Mark Warning:**

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

**FCC Statement:**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For detailed warranty information applicable to products purchased outside the United States, please contact the corresponding local D-Link office.