USER MANUAL

ShareCenter™ Shadow DNS-325

VERSION 1.0

D-Link®

STORAGE

Table of Contents

Introduction

The D-Link ShareCenter™ Shadow (DNS-325), 2-Bay Network Storage, when used with internal SATA drives[1], enables you to share documents, files, and digital media such as music, photos, and video with everyone on the home or office network. Remotely accessing files through the Internet is also possible with the built-in FTP server[2], Web File server and WebDAV protocol. Whether you are allowing access locally or over the Internet, keep data safe by only giving rights to specific users or groups. When configuring the DNS-325, you can create users and groups and assign them to folders with either read or read/write permissions. This is ideal for an office environment with employee-specific sensitive data or for the home where you can ensure your children will only have access to age appropriate material. The DNS-325 will be available to any computer (PC, MAC, or Linux-based) on your network, without the need to install any software on the computer.

Back up your music, photo, and video collections to the DNS-325 for safekeeping. Then, enjoy the benefits of the built-in DLNA certified UPnP AV media server[3] as you stream digital content to compatible media players (such as those found in D-Link's MediaLounge product line). This feature is highly convenient as it allows you to turn off a computer that would normally be needed for the same function.

The availability of four different hard drive modes (Standard, JBOD, RAID 0, RAID1) allows you to choose the configuration best suited to your needs. Standard mode creates two separately accessible hard drives. JBOD combines both drives in linear fashion for maximum space efficiency. RAID 0 combines both drives in a 'striped' configuration, which provides the highest performance when using a Gigabit Ethernet connection. RAID 1 causes the drives to mirror each other, providing maximum protection. If one drive fails while configured as RAID 1, the unaffected drive continues to function as a single drive until the failed drive is replaced. The new drive will then be re-mirrored, allowing the DNS-325 to return to its full protection.

To further enhance your ShareCenter's capabilities you can expand the applications available with the ShareCenter by using the Add-on feature which allows you to add supported software applications. These applications can add over the web audio streaming, file and media sharing and even blogging capability to your ShareCenter.

1 Hard Drive(s) not included.

2 Note that use of an FTP Server to access files over the Internet does not provide for secure or encrypted transmissions.

3 D-Link cannot guarantee full compatibility or proper playback with all codecs. Playback capability depends on the codec support of the UPnP™ AV media player.

Product Overview

Package Contents

- D-Link ShareCenter™ Shadow DNS-325
- CD-ROM with Manual and Software
- Quick Installation Guide
- Power Cable with 12 V DC 4 A Power Adapter
- Cat5 Ethernet Cable

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.

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 7, Mozilla Firefox 3 or Apple Safari 4 and above
- Windows® XP (with Service Pack 2) or Vista™ or Windows 7™
- 3.5” SATA Hard Drive(s)

Features

The ShareCenter™ Shadow DNS-325 is an easy-to-install data storage platform that can be accessed remotely through a local network or via the Internet. This ShareCenter™ the features listed below:

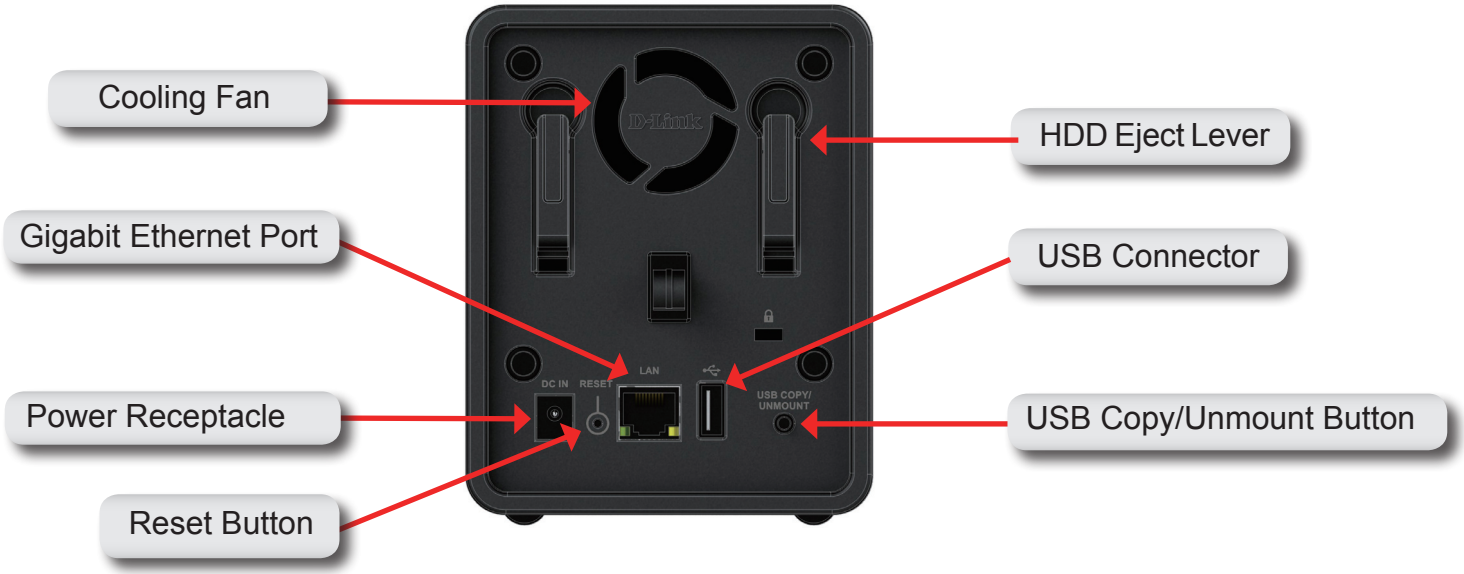
- Two hard drive bays for 3.5” SATA hard drives, up to 2TB HDD (or higher)
- Four hard drive configurations: Standard, JBOD (Linear), RAID 0, and RAID 1
- RAID Migration: Standard to RAID1
- Disk Diagnostic Functions (S.M.A.R.T Test and Scandisk)
- High performance Gigabit Ethernet connectivity
- Simplified hard drive installation process
- USB port supports an external storage device, printer server, or UPS Monitoring
- FAT16/32, NTFS (read only) for USB external storage
- USB copy function
- NFS/AFP server
- DDNS
- UPnP, Bonjour
- PnP-X / LLTD
- Local backups
- Full or incremental backups
- Backup and recover your PC with the included backup software
- Apple Time Machine
- Users and Groups can be assigned to folders with read or read/write permissions
- Quotas for users and groups
- ISO mount shares
- Power Management for conserving energy and extending hard drive life
- Auto power recovery
- Schedule power off
- Internet audio streaming
- UPnP AV Server for streaming music, photos, and video to compatible media players
- iTunes software will be able to automatically find and play music directly from the ShareCenter
- Logitech Squeeze Center
- P2P downloads
- D-Link Storage Utility
- Configurable by web browser
- HTTPS management function
- Network recycle bin
- Yahoo! Widget
- System Logging/FTP Logging
- Automatic E-Mail and SMS Notifications
- Remote File Access via Built-in Web File Server, FTP Server, or WebDAV, or via the AjaXplorer add-on application
- Built-in FTP server for file access over the Internet
- FTP Server supports FTP over SSL/TLS and FXP
- Uni-code for both Samba and FTP Server
- Scheduled downloads from web or FTP sites
- Add-on software and multiple language packages

Hardware Overview

Front Panel

COMPONENT	DESCRIPTION
USB LED	This light will illuminate when a USB device is inserted into the USB Port. This light will blink when there is traffic.
HDD LEDs	These lights will be solid when the drives are connected but inactive. The lights will blink when the drives are being accessed, formatted or synchronized. They will illuminate AMBER if a drive has failed.
Power Button	Press once to power on the ShareCenter. Press and hold the button until it begins to blink to power down the ShareCenter.
Drive Tray	With the front cover off, SATA hard drives can be slid in and out of the of ShareCenter. Use the tabs on the rear of the ShareCenter to initially push a HDD out of its connector and tray.

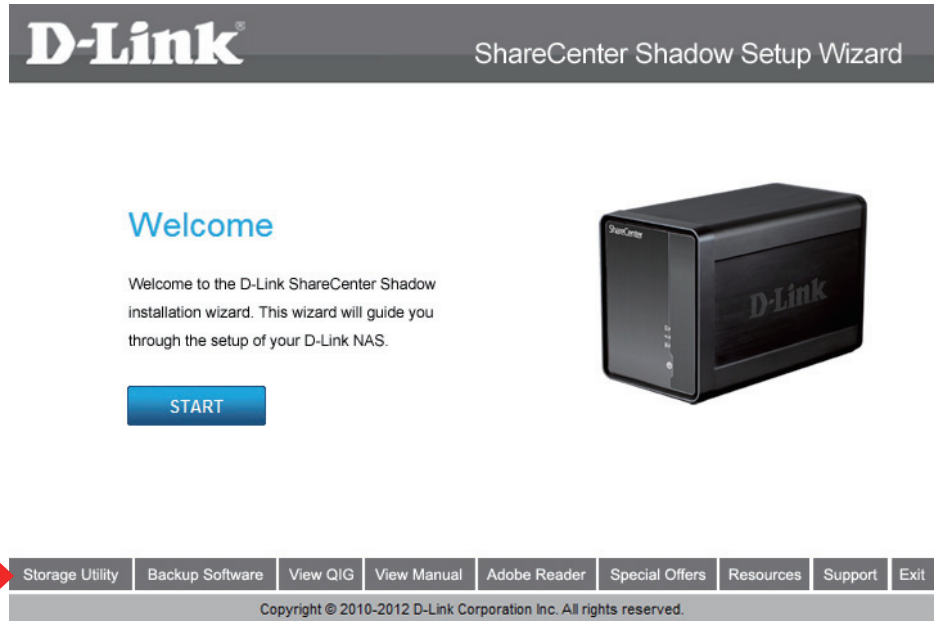
Rear Panel (Connections)



COMPONENT	DESCRIPTION
Cooling Fan	The cooling fan is used to cool the hard drives and features 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 49 °C.
Gigabit Ethernet Port	Use the Gigabit Ethernet Port to connect the ShareCenter to the local network. The port is equipped with both a LAN LINK (R) and Traffic LED (L) to indicate connectivity and traffic respectively to the local LAN
Power Receptacle	Connect the supplied power cord to the receptacle.
USB Connector	A single USB 2.0 (Type A) connector. The USB Host port is for USB Printers, USB memory disks or USB UPS monitoring.
Reset Button	Press this button for more than 5 seconds to reset the unit to factory defaults.
HDD Eject Lever	With the power removed and the front cover off use each slot's lever to eject the HDD drive .
USB Copy/ Unmount Button	Press 1~3 seconds to copy data from a USB drive to your ShareCenter. Press and hold 5 seconds to unmount a USB drive.

Getting Started
ShareCenter Software CD

To run the Storage Utility or the ShareCenter Setup wizard insert the ShareCenter™ CD into your CD-ROM drive:



Click Storage Utility.

D-Link Storage 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 the Auto-IP process will assign a 169.254.xxx.xxx address to the ShareCenter. It is recommended that the included D-Link Storage Utility be used 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 Storage Utility provided on the product CD to locate the device on your network and make any needed changes.

Network Storage Device The D-Link Storage 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.

Connect Click **Connect** to connect to the iSCSI target.

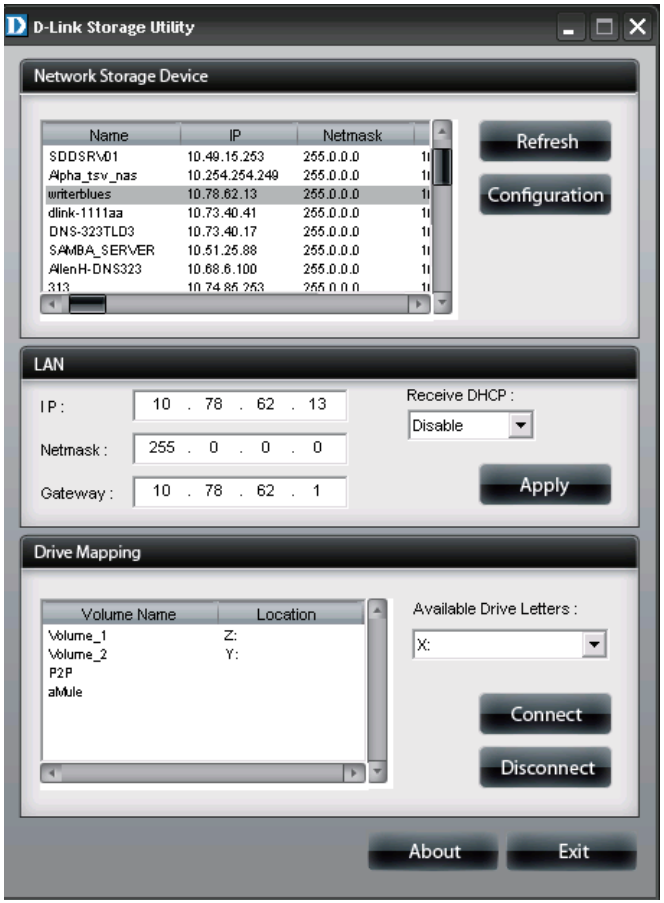
Management Click **Management** to edit the information.

Drive Mapping Volumes available for mapping are displayed here.

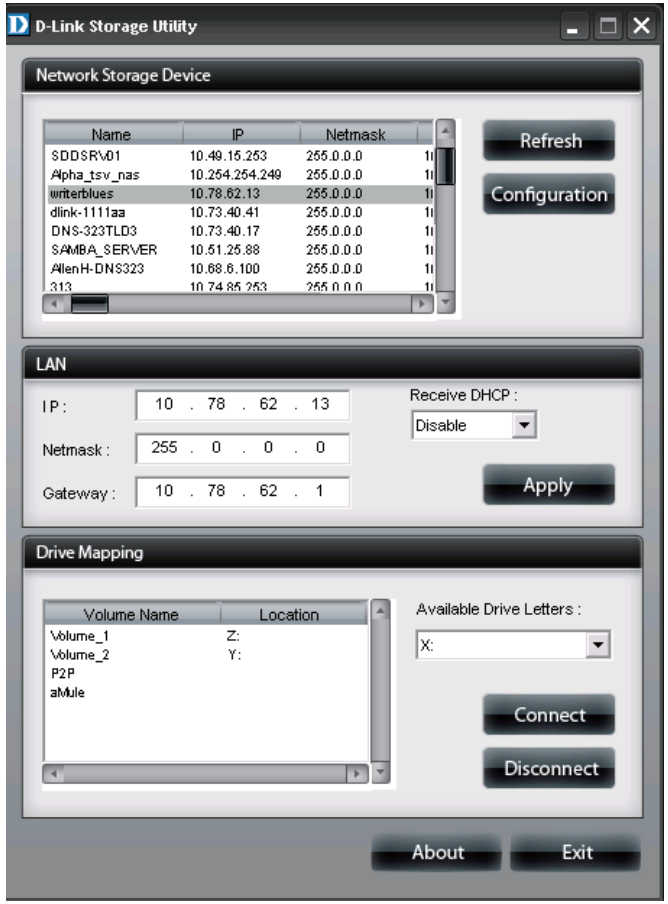
Available Drive Letters Choose an available drive letter. Click **Connect** to map the selected volume. Click Disconnect to disconnect the selected mapped volume.

About Click **About** to view the software version of the Easy Search Utility.

Exit Click **Exit** to close the utility.



Select the ShareCenter from the list 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.*

Installation
Setup Wizard (Standalone)

The Setup wizard will guide you through the process of setting up your ShareCenter ready for immediate use. The wizard will do the following:

- Show you the proper Hard Drive install procedure
- Show you how to connect the Local LAN cable.
- Show you how to connect Power and switch it on.
- Show you how to check the Hard Drive LEDs
- Configure your Administrator Username and Password
- Set up the Network configuration for the Local LAN.
- Configure the ShareCenter Name. Description and Workgroup
- Configure the Dynamic DNS settings and/or if necessary, show you how to apply for a DDNS account.
- Set up the System Time and Date
- Configure the E-Mail Settings where the ShareCenter System Alerts are then sent.
- Set up and format the Hard Drive RAID configuration.
- Map the ShareCenter Volumes as Network Drives on your computer.
- Install the extended value Add-on Application Packages

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.*

Remove the Front Cover and Install the Hard Drives

This step above shows you how to open your ShareCenter so that you can install one or two hard drives

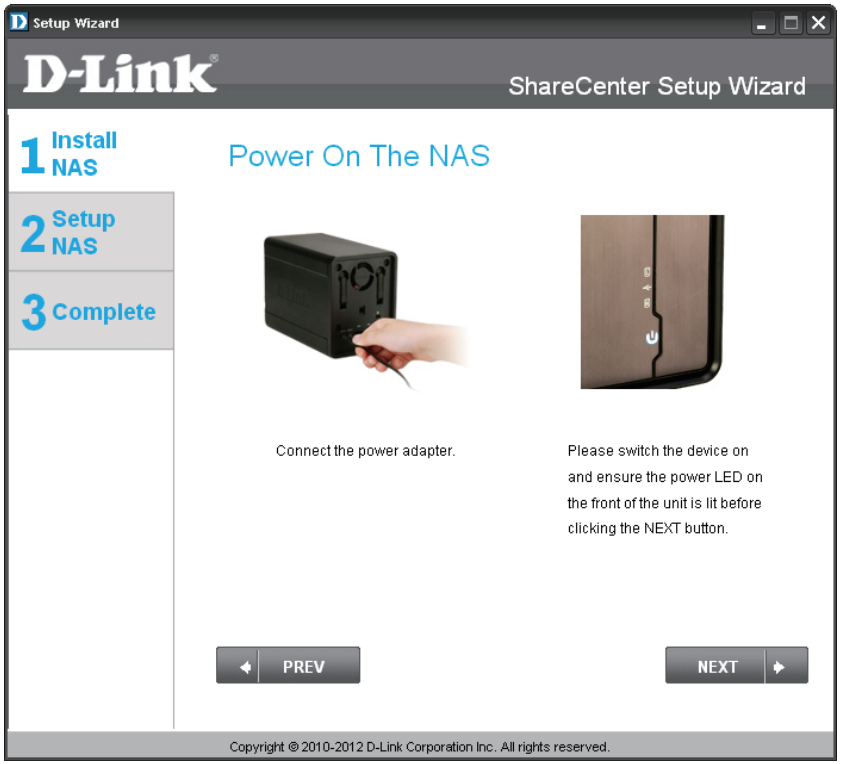
This step below shows you how to slide either one or two hard drives into the open hard drive bays of your ShareCenter.

Replace the Front Cover and Connect to the Local LAN

Once the hard drives are installed properly in each bay then you can replace the face plate.

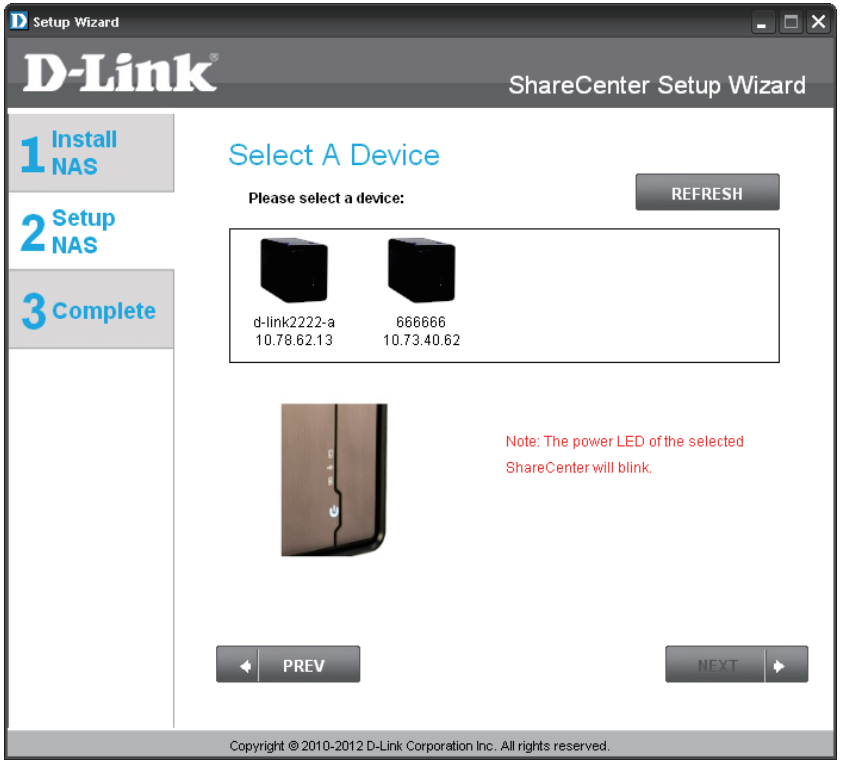
A standard CAT-5 ethernet cable with an RJ-45 connect is needed to connect your ShareCenter to your LAN.

Power and Device Selection



Connect the power adapter connector to the power connection at the back of the ShareCenter. Then power on the ShareCenter™ pressing the power button located under the faceplate LEDs

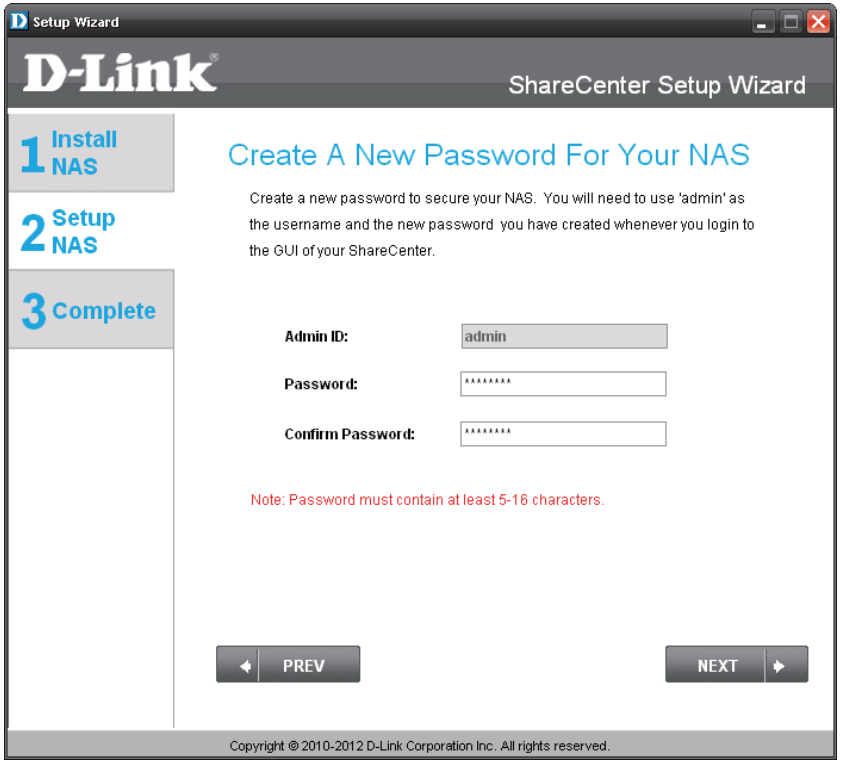
With the power on, check that the Power LED is blinking. If they are blinking answer yes to the confirmation window otherwise select no and check the power connectivity to the ShareCenter. If power connection is good then check that the hard drives are installed correctly and have no other issues.



Admin Password

This window requests the Admin (administrator) password. If this is the first installation of this ShareCenter then the password will be blank.

In this step you can create a new password for the 'Admin" username. It is recommended you set a password however you may also leave the fields blank.

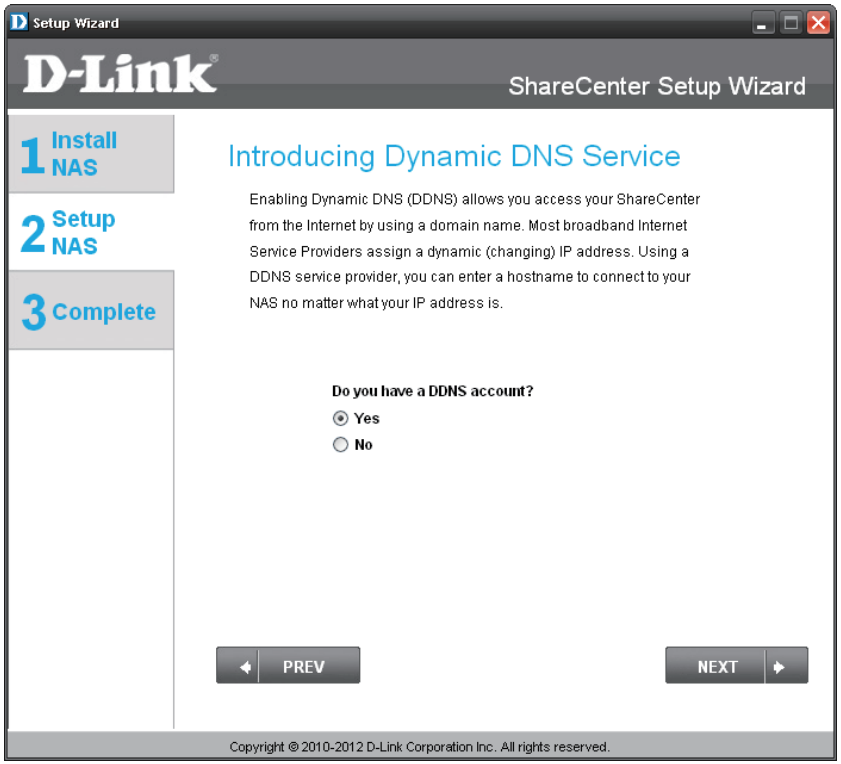


Networking Setup

You may either use Static IP or DHCP to configure the IP network settings of the ShareCenter. If you select Static IP then input the IP parameters as listed.

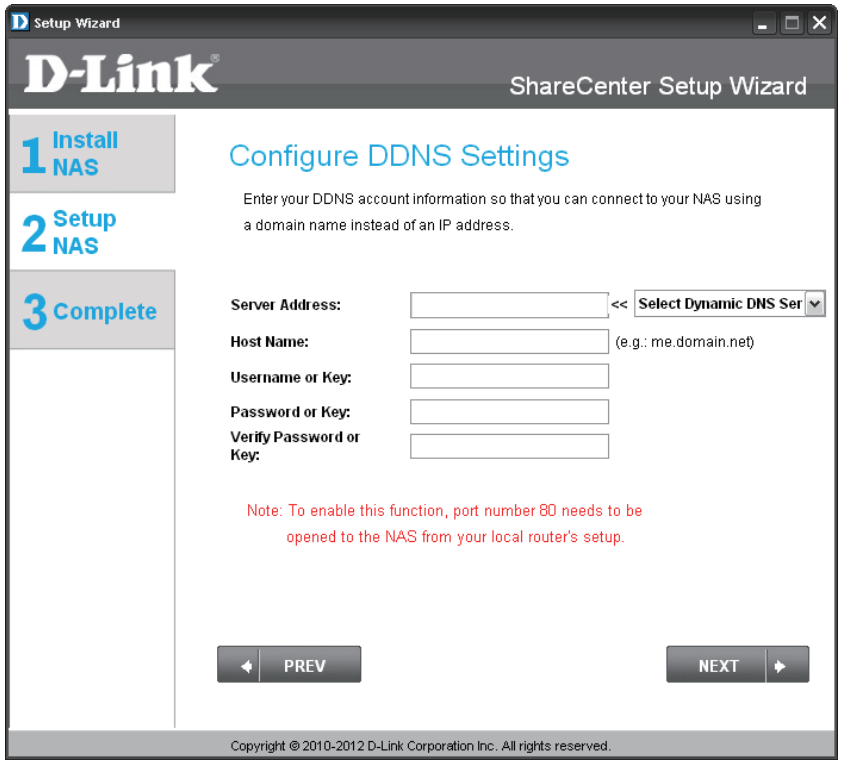
If you want your ShareCenter to be part of a Windows Workgroup network enter the parameters requested or leave the default settings that appear initially in the window. The name will be used whenever you map one of the ShareCenter™ volumes as a Network Drive.

Dynamic DNS

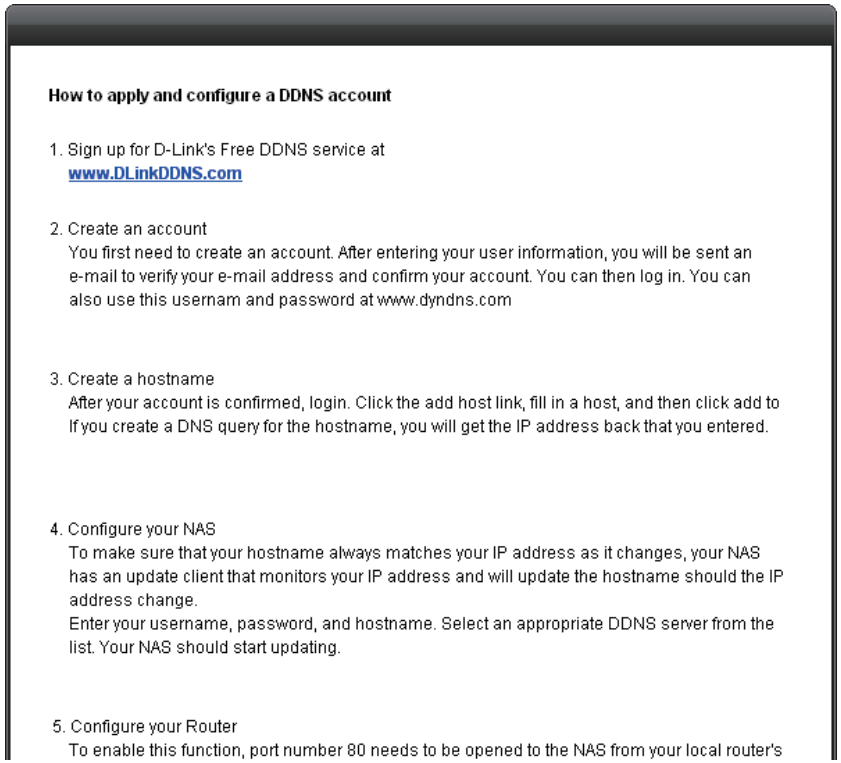


Click here on the “Yes” Radio button if you already have a DDNS account to use for the ShareCenter DDNS settings. Click on the “No” Radio button and proceed to another step to obtain new DDNS account.

Enter the DDNS parameters requested in this window so that your ShareCenter can be accessed by a URL over the WWW.



DDNS Account and System Time



How to apply and configure a DDNS account

1. Sign up for D-Link's Free DDNS service at
   www.DLinkDDNS.com

2. Create an account
   You first need to create an account. After entering your user information, you will be sent an e-mail to verify your e-mail address and confirm your account. You can then log in. You can also use this usernam and password at www.dyndns.com

3. Create a hostname
   After your account is confirmed, login. Click the add host link, fill in a host, and then click add to
   If you create a DNS query for the hostname, you will get the IP address back that you entered.

4. Configure your NAS
   To make sure that your hostname always matches your IP address as it changes, your NAS has an update client that monitors your IP address and will update the hostname should the IP address change.
   Enter your username, password, and hostname. Select an appropriate DDNS server from the list. Your NAS should start updating.

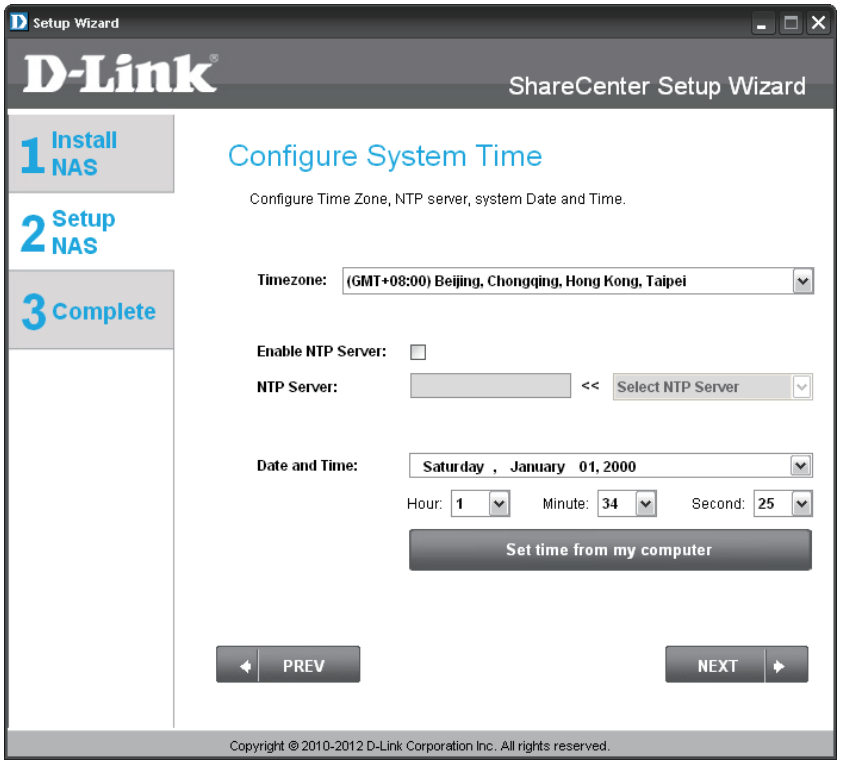
5. Configure your Router
   To enable this function, port number 80 needs to be opened to the NAS from your local router's

If you want a DDNS account to use with your ShareCenter, D-Link provides a free DDNS account by clicking on the web link shown. You need to do the following:

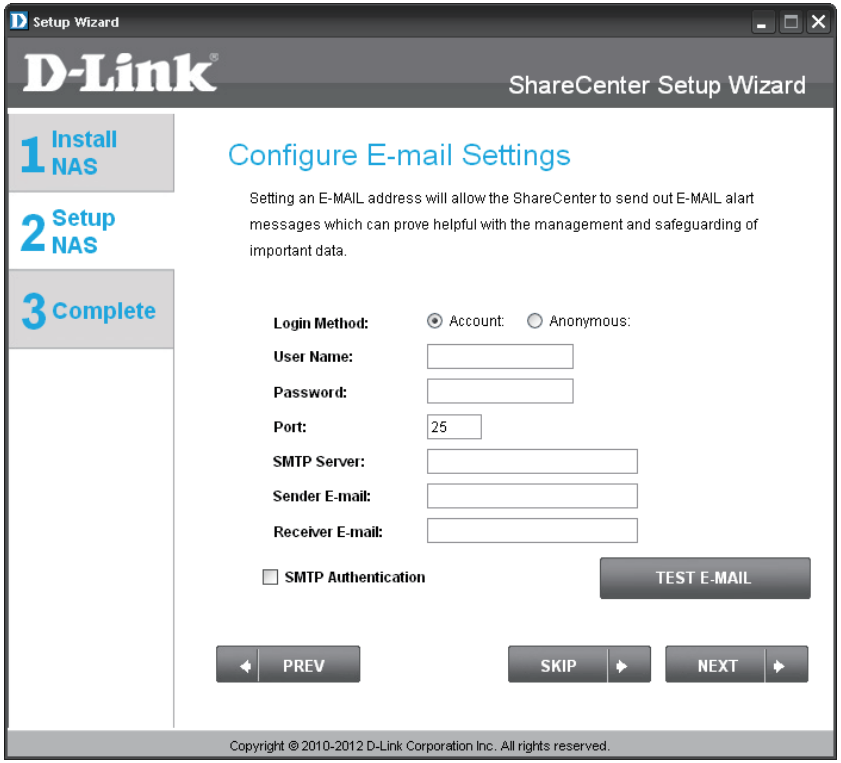
- Create an account with a username and password
- Create a hostname that DDNS service will use to track your ShareCenter no matter what the Local Network WAN settings are (i.e. public IP address)
- Configure your ShareCenter with the hostname and DDNS service provider details.
- Configure your router to forward port 80.

Follow the steps listed here in order to create a DDNS account and configure your LAN equipment and ShareCenter to work with the new settings.

Select the ShareCenter system time, date and timezone settings using this step. You can set the time and date manually, from and NTP server or from the computers settings. The timezone is set manually,

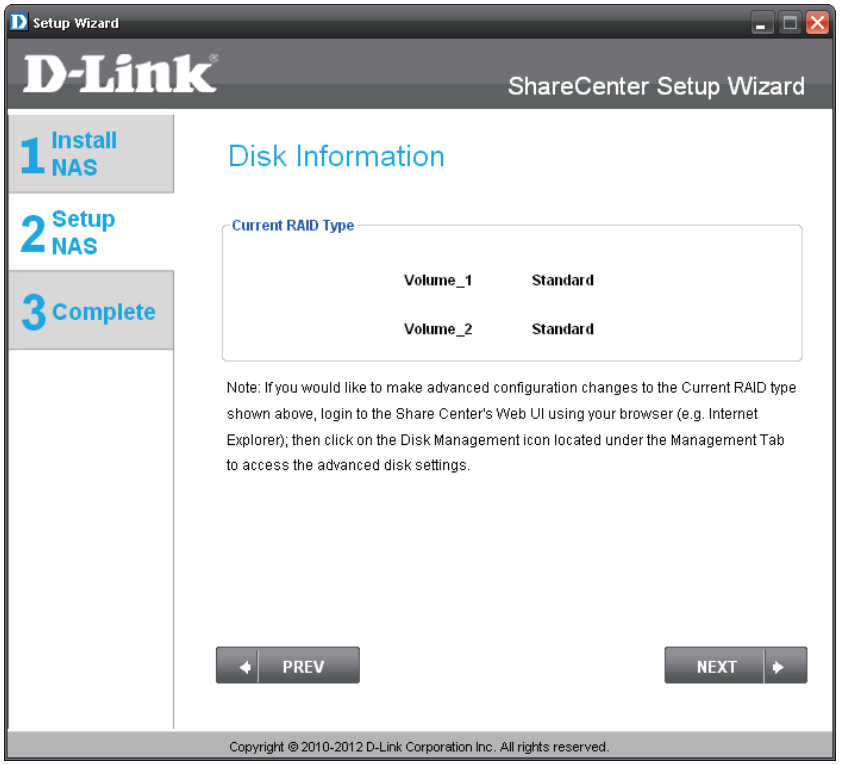


E-mail Settings and Volume Information

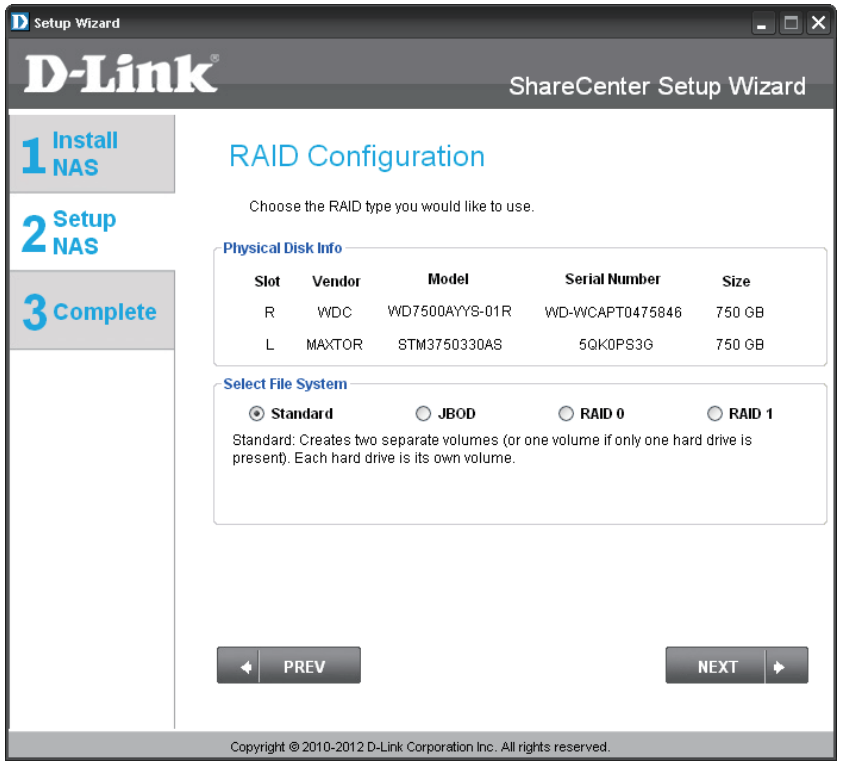


To receive e-mail events that the ShareCenter may encounter, you may set an optional E-mail account here.

This step is informational and shows any currently configured Volumes previously setup on the ShareCenter.



RAID Configuration and Network Drive Mapping

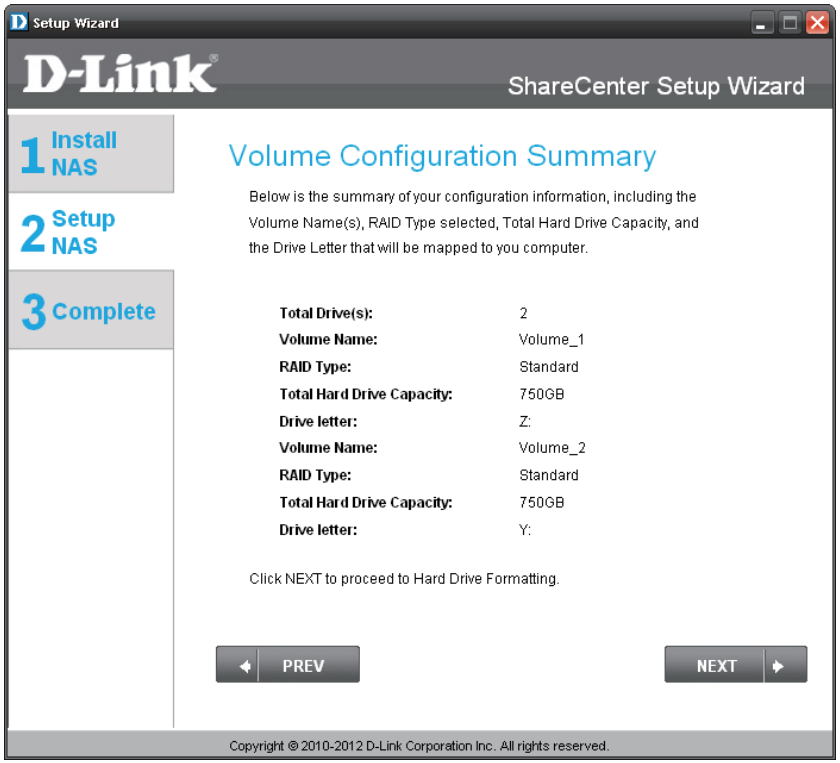


Select one of the 4 Volume File Systems desired. Clicking on each file system type radio button will give a description if needed.

For more information concerning the different RAID Disk Formats please refer to "What is RAID?" on page 99

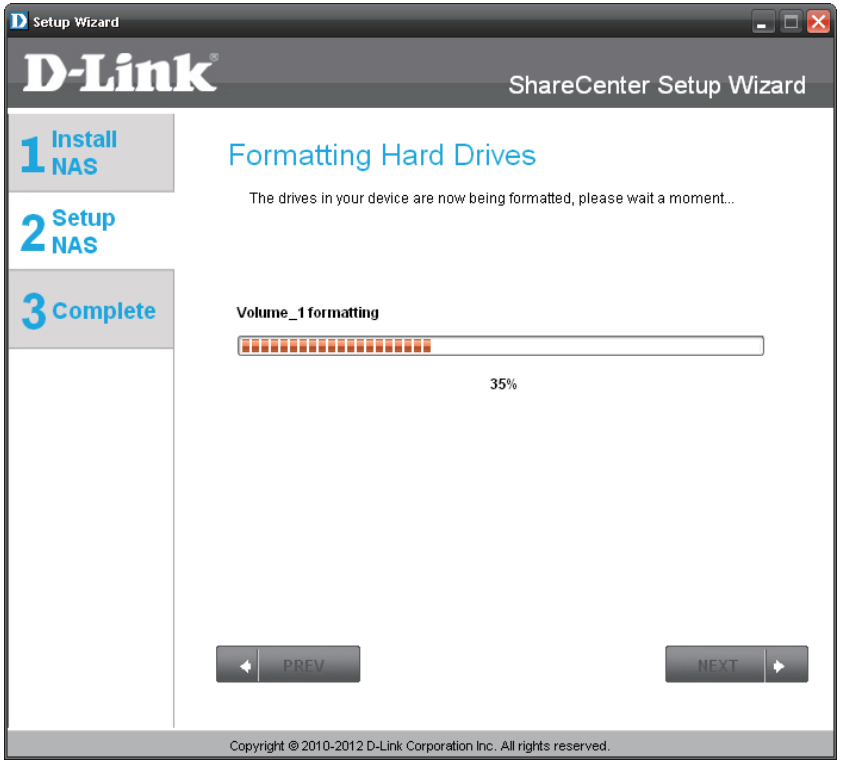
This step allows you to map the volume(s) created as network drive(s) on your computer.

Configuration Summary and Drive Formatting



Review your volume configuration sumary details here before clicking next and starting the drive format. If necessary use the PREV button to go back and reconfigure the RAID comfiguration of the volume(s). When you click Next a warning message will appear to confirm you want to format the drives as all the data on the drives will be deleted. Click on the No button if you are unsure.

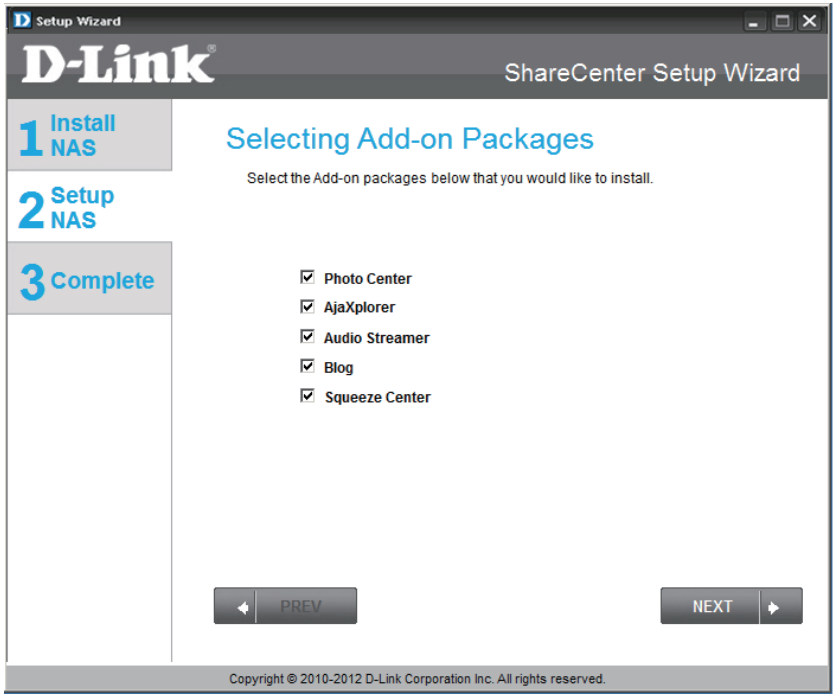
During the hard drive formatting the wizard displays percentage complete bars.

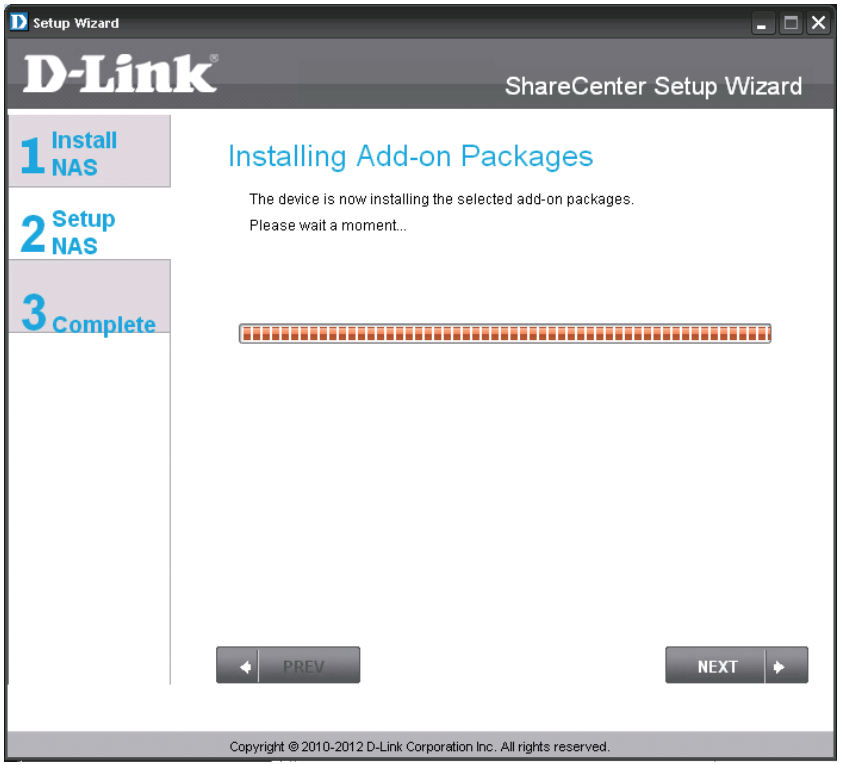


Format Complete and Add-on Packages

The wizard will show this window if the hard drive format(s) are successful.

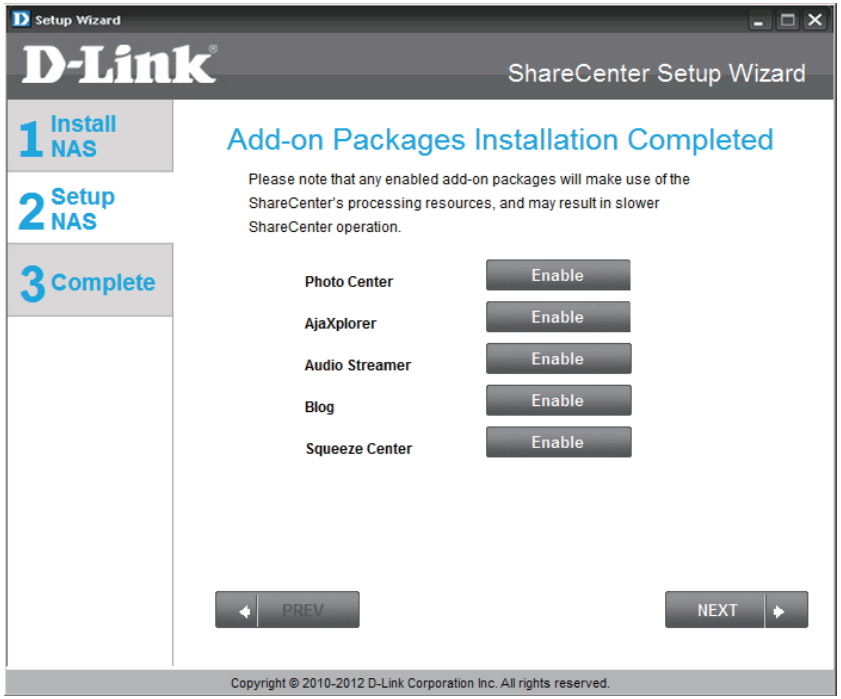
Your ShareCenter supports Add-on packages here you may install the Audio Streamer, Blog, SqueezeCenter, Photo Center and AjaXplorer add-ons which extend the application functionality of your ShareCenter.





The add-on package(s) installation is shown with a progress bar.

The wizard can enable the Add-on packages installed using this step. Click the enabled button next to the Add-on package as desired.



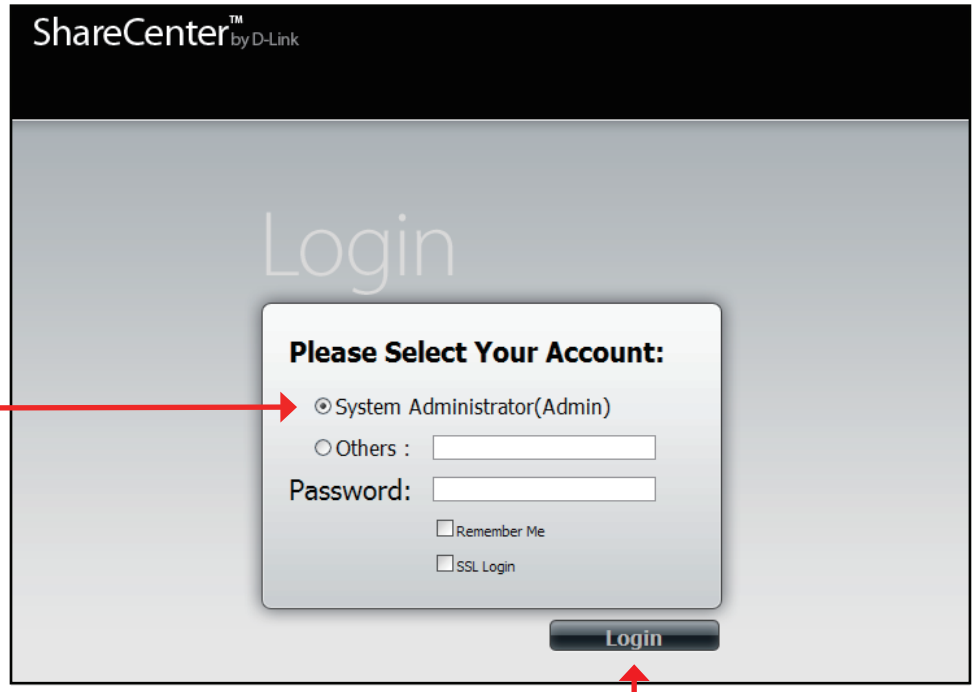
Setup Complete

The final window of the installation wizard shows successful completion. Your ShareCenter is now installed and ready for use. If your drives are network mapped using the wizard you will be able to access them under you “My Computer” icon. Otherwise you can manually map or access the created volumes and also perform further configuration using the Web UI explained later in this manual.

Configuration

Web UI Login

The Login screen will appear:



Select **System Administrator** and enter the password set using the Setup Wizard.

Click **Login.**

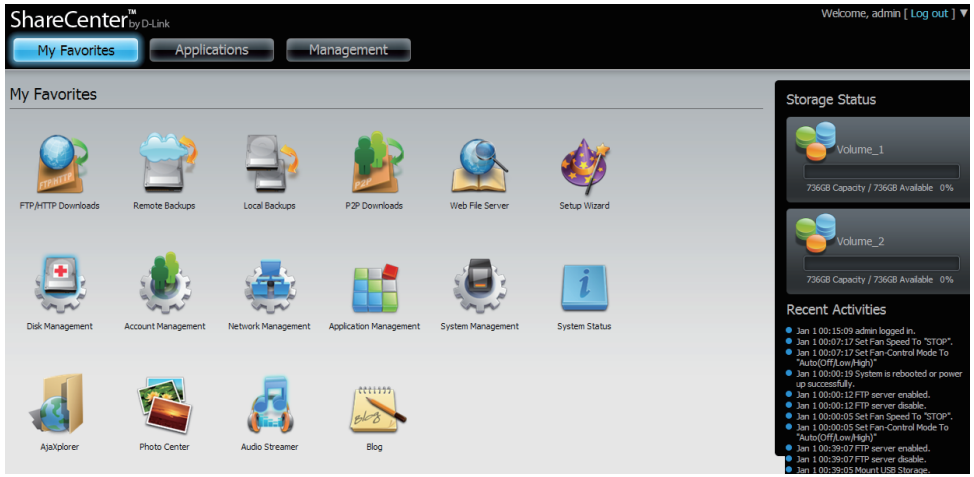
Note: *The computer, used to access the ShareCenter web-based configuration, manager must be on the same subnet as the ShareCenter. If your network is using a DHCP server and the computer receives IP settings from DHCP, the ShareCenter™ will automatically be in the same subnet.*

Web UI General Layout

If there is no hard disk volume is created, then the ShareCenter Web UI defaults to the Management tab. Once a volume is created, then the web UI defaults to the My Favorites tab. The configuration icons are located in the tabs at the top of the page. Click one of the 3 tabs to see the icons located in the page of the tab. The icons available for configuration under each of the tabs include:

My Favorites - a user configurable area where:

- users can add customized access to preferable functions into My Favorites in order to give quick access to these functions.



Applications - Configuration for:

- **FTP/HTTP** and **P2P** Downloads.
- **Remote** and **Local** Backups.
- the **Web File Server.**
- other applications which may be added to the page.

Management - Contains the:

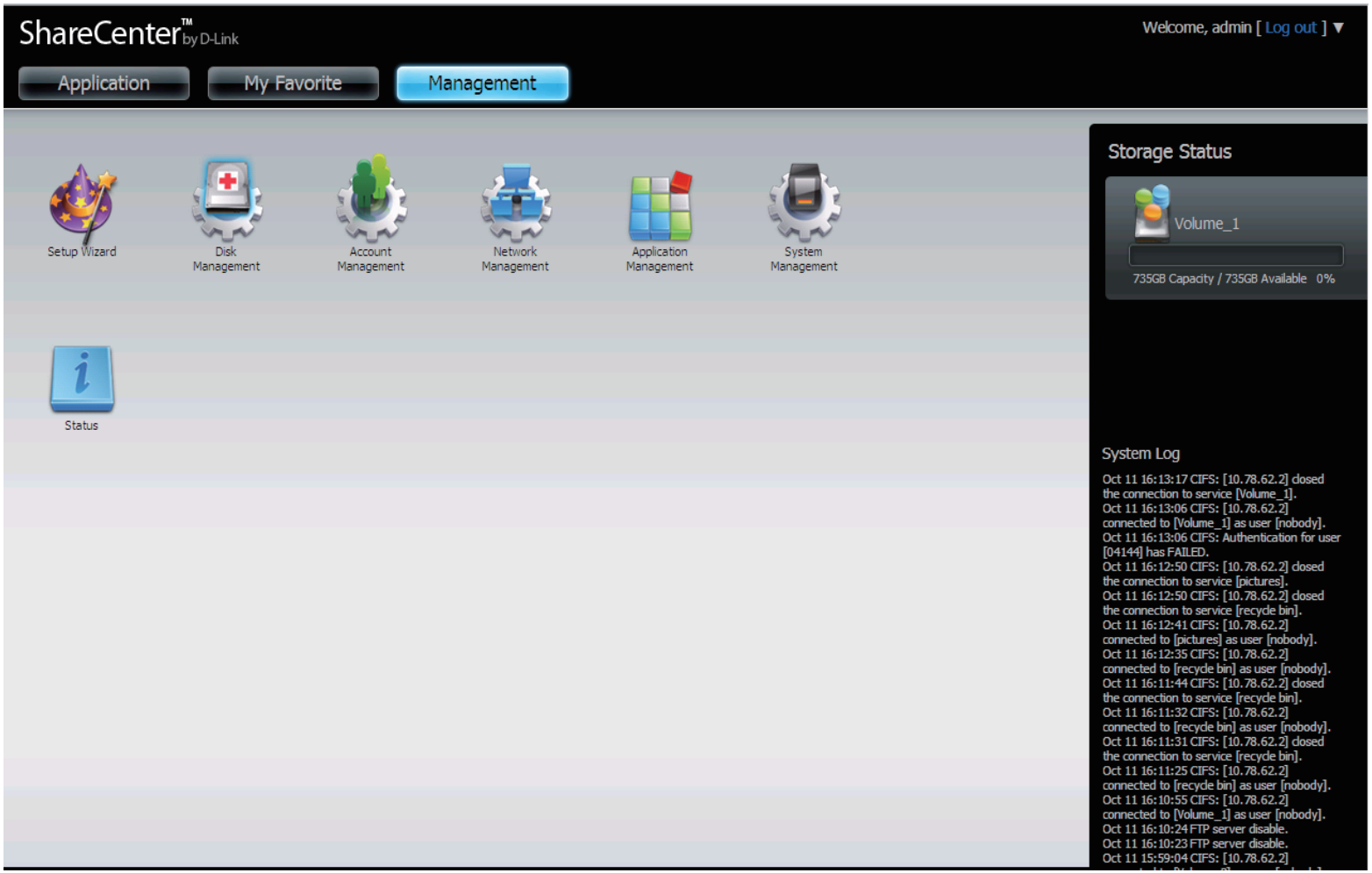
- **Setup Wizard -** Step-through settings for accounts, time and date, and connectivity.
- **Disk Management -** Configures the Volume Setup and perform Disk Diagnostics.
- **Account Management -** Configures the Admin Password, Users, Groups, Quotas and Network Share Folders.
- **Network Management -** Configures the LAN settings and Dynamic DNS.
- **Application Management -** Configures File Sharing protocols and Add-on management.
- **System Management -** Configures the Time and Date, Device, System Settings, Power Management, E-mail Alerts, Logs. and Firmware settings.

These icons and their configuration sub-menus 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.

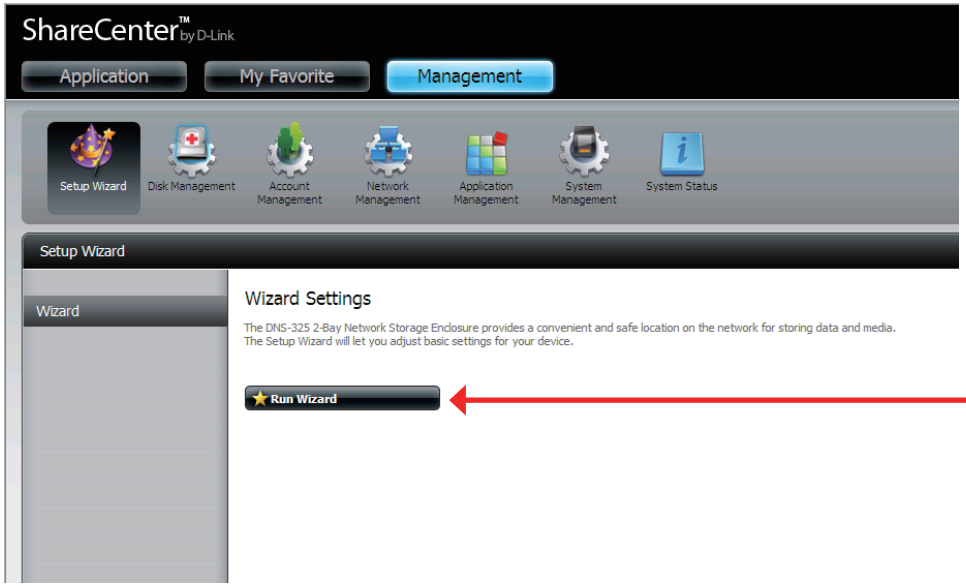
Management

This tab contains the Setup Wizard, Disk Management, Account Management, Network Management, Application Management, System Management and Status Icons. Click each of the icons to see the submenus.



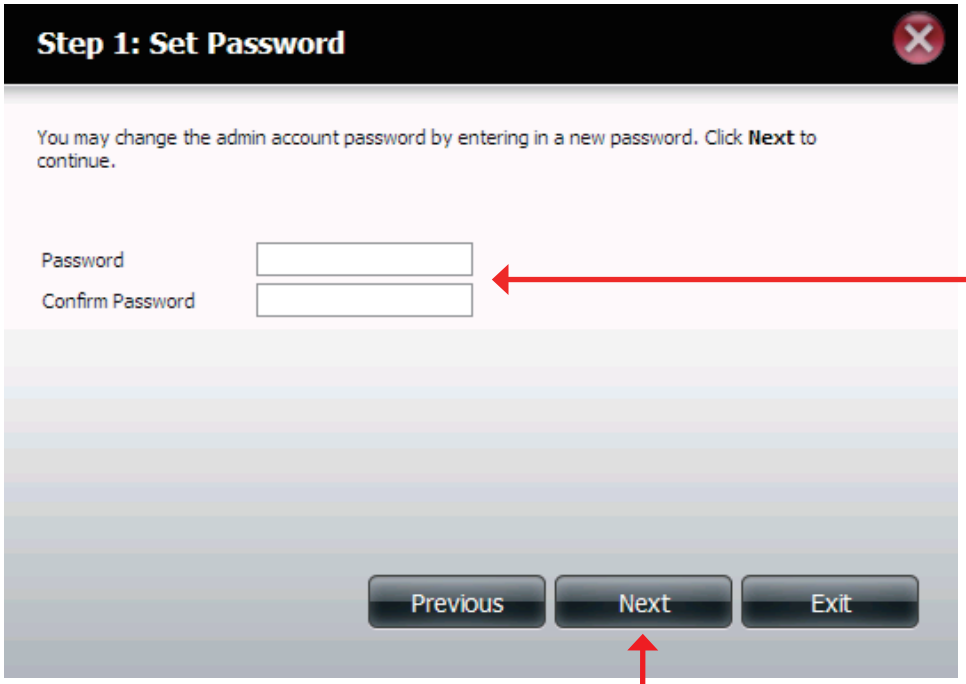
Setup Wizard (Web UI)

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.



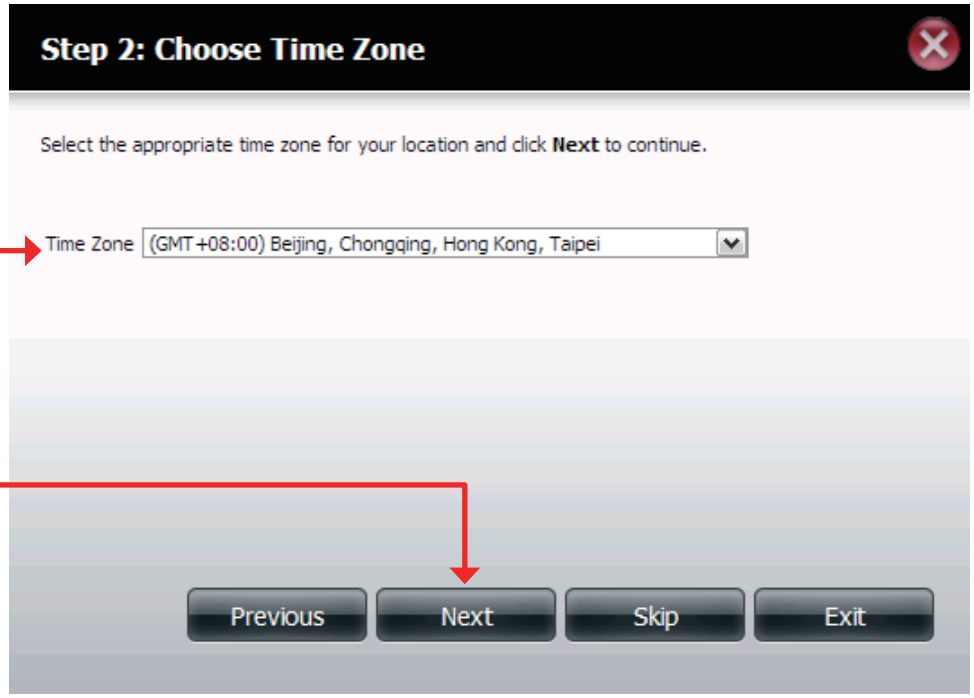
Click the Run Wizard button to start the setup wizard.

Click **Next** to continue.



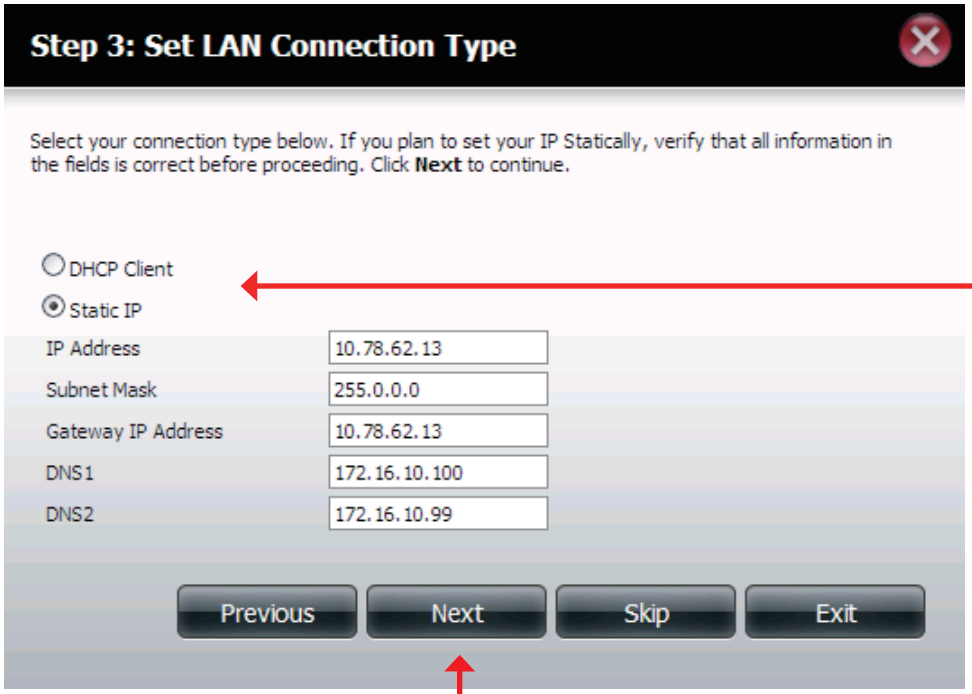
Update the administrator account password here and confirm it or leave it the default blank.

Click **Next** to continue.



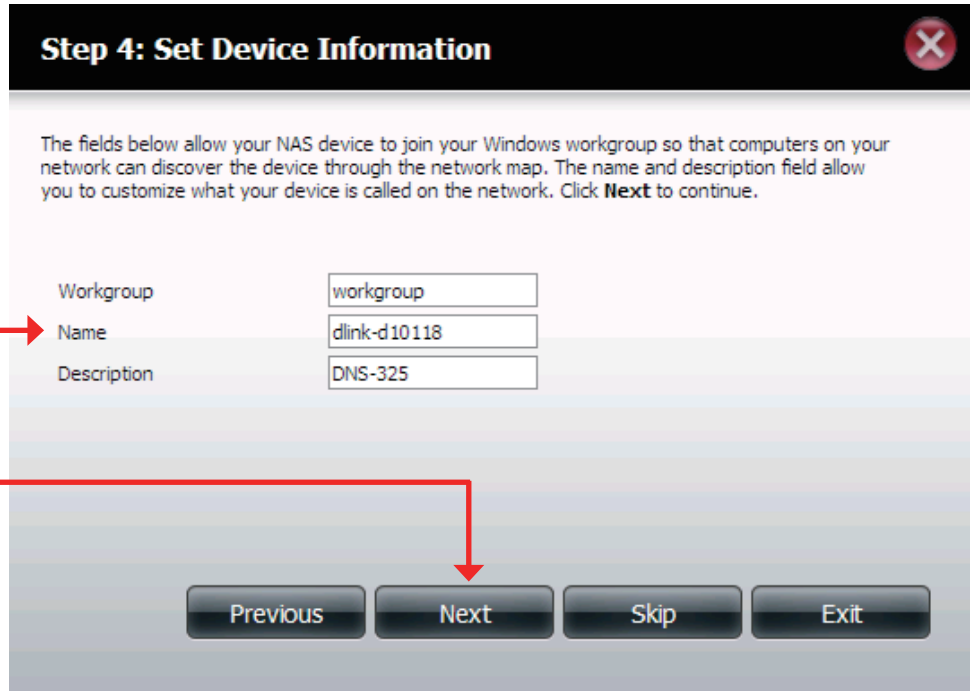
Set the timezone to the appropriate geographic zone closest to your location from the drop-down menu.

Click **Next** to continue.



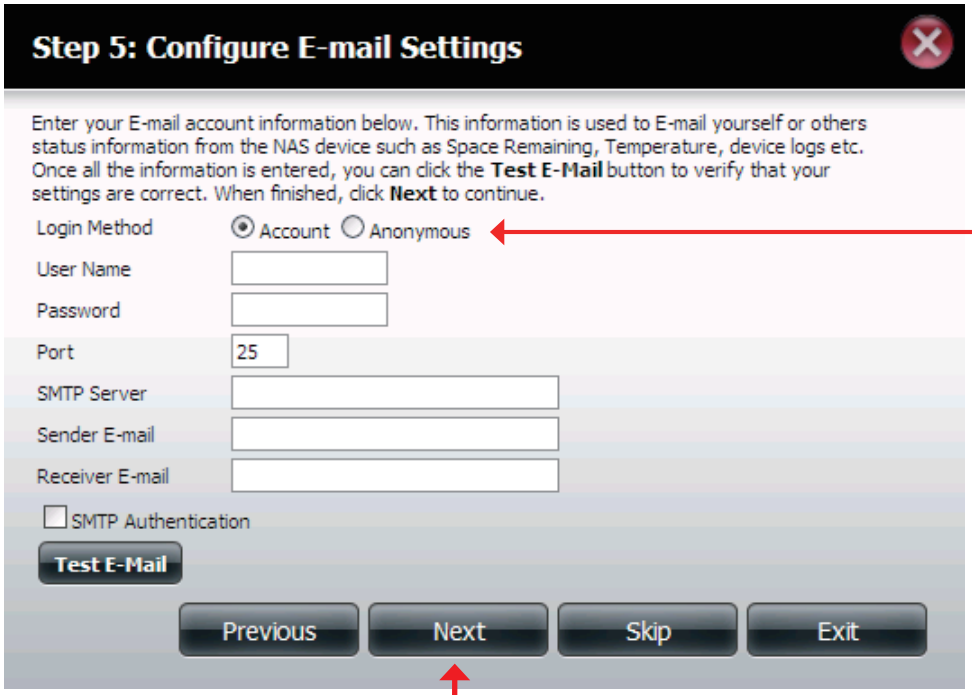
The ShareCenter LAN parameters can either use DHCP to obtain its IP settings dynamically or Static to set them manually in the parameters below.

Click **Next** to continue.



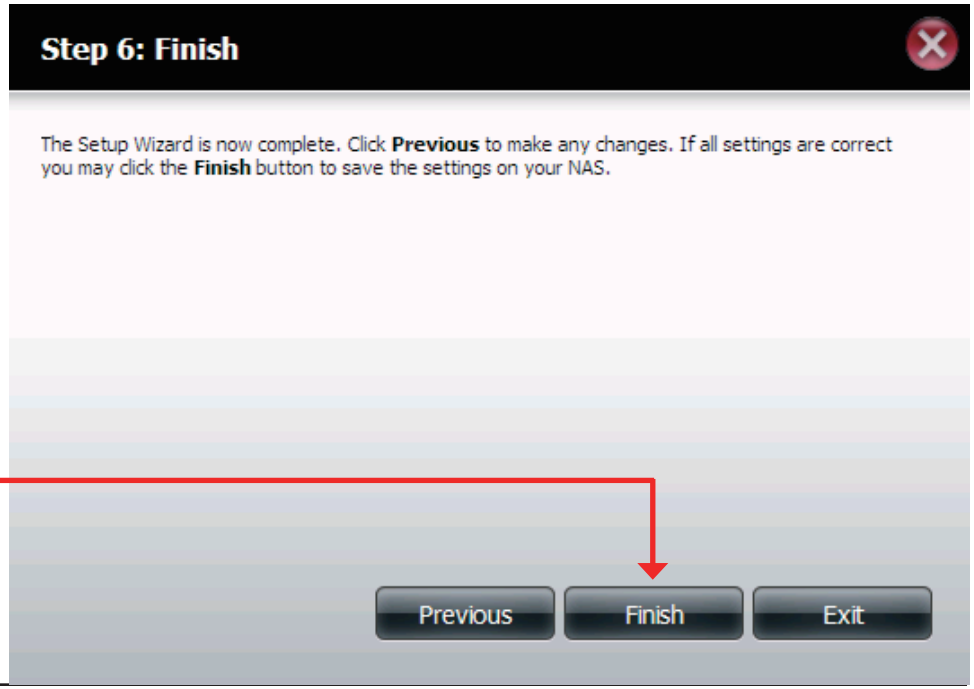
Here you can assign a workgroup and name to the ShareCenter in addition to a short description.

Click **Next** to continue.



Select Account to be able to enter your e-mail parameters in the boxes below to. The e-mail account will then receive Event Alerts from the ShareCenter

Click **Next** to continue.



Use the previous button to go back and check your settings otherwise if you are satisfied with the settings click the finish button to save the settings. Click Exit to end the wizard without saving the settings.

Disk Management

Hard Drive Configuration

To setup the Hard Drive RAID configuration of your ShareCenter, click on the Management tab and then the Disk Management icon. Select the Hard Drive Configuration menu item on the left of the window. This menu will allow you set the RAID type and format your hard drives.

Hard Drive Configuration Your ShareCenter hard drives can be configured and formatted in various RAID configurations here.

Current Raid Type If the drives are already formatted the RAID configuration will be displayed here.

Set RAID type and Re-Format Click on this button to launch a wizard to allow you to select the RAID configuration and format the drives. Refer to the section titled "What is RAID?" on page 99 for more information about RAID.

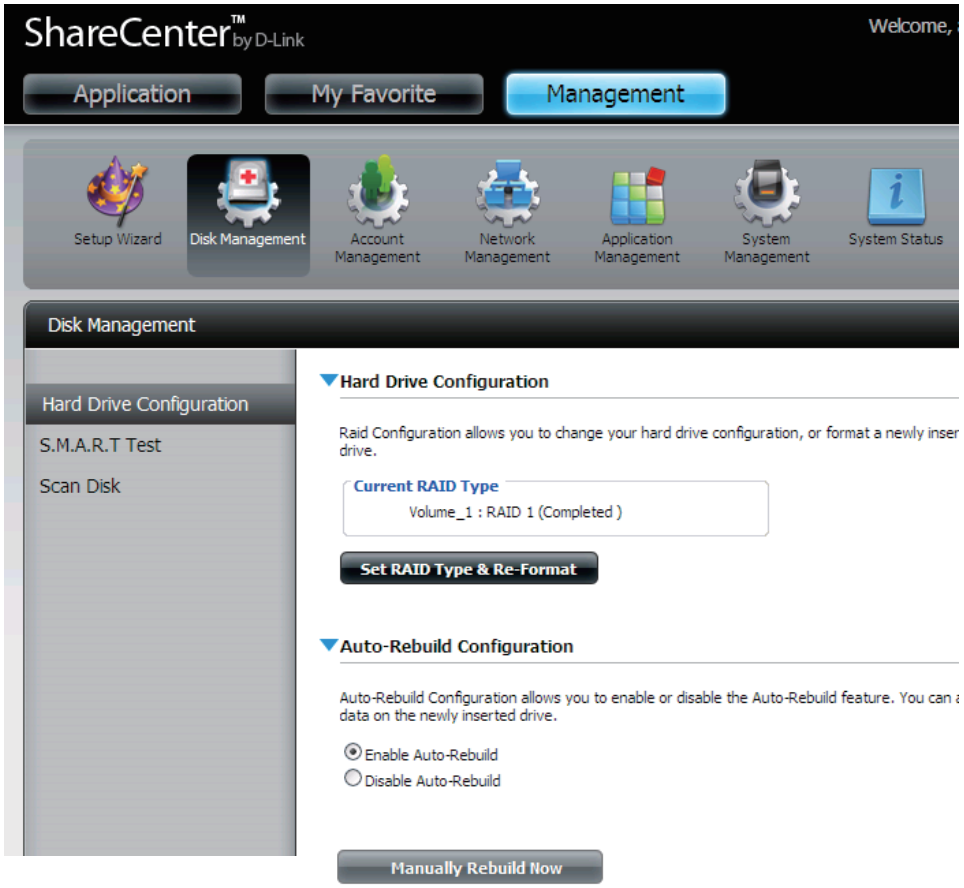
Auto-Rebuild Configuration If you have chosen RAID 1 as the configuration option then set the Auto-Rebuild function here using the radio buttons.

Enable Auto-Rebuild Enabling Auto-Rebuild will rebuild a failed RAID 1 drive when a new drive has replaced the degraded one.

Disable Auto-Rebuild If you do not want to automatically rebuild drives after a failure when using the RAID 1 functionality then you can check this option.

Note: You can still rebuild a drive using the RAID 1 functionality however you must initiate the rebuild manually.

Manual Rebuild Now If you have disabled Auto-Rebuild then you can use the Manual Rebuild option by clicking this button.

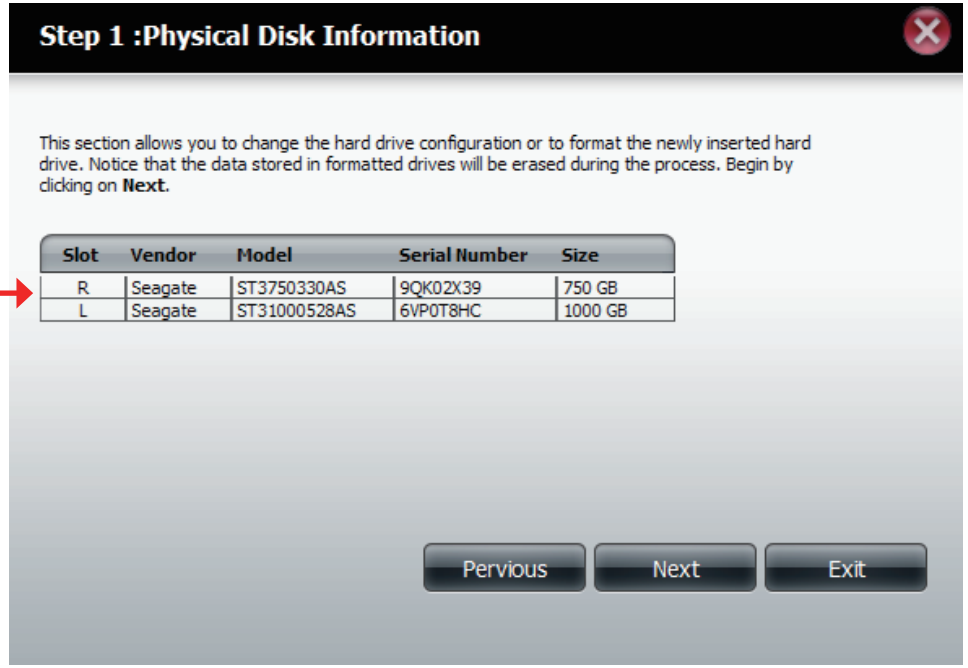


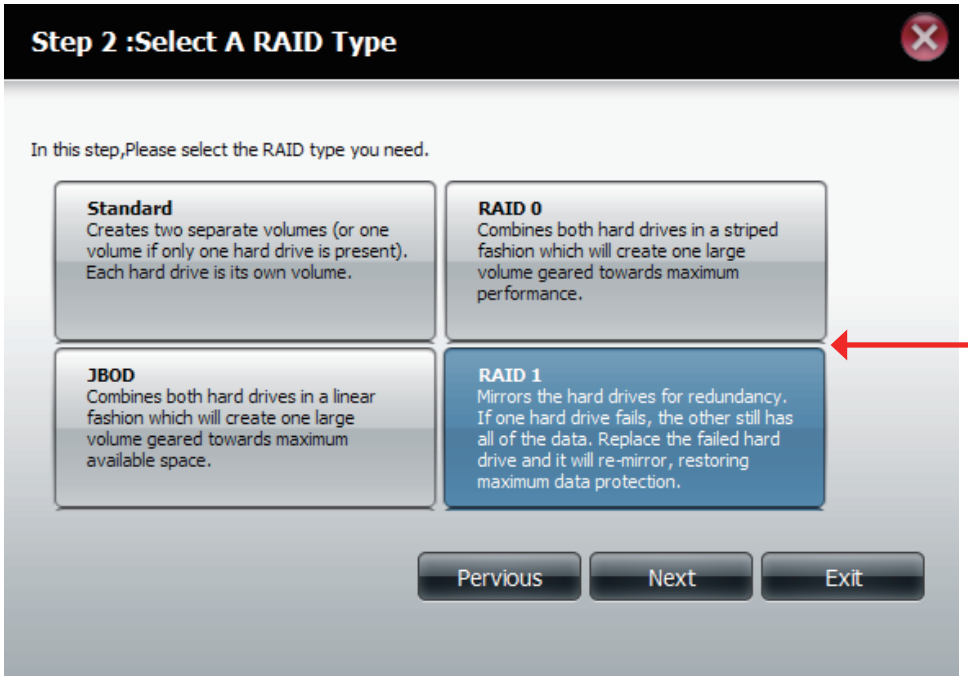
Hard Drive Configuration Wizard

When you click on the “Set RAID type and Re-Format button in the Disk Management-Hard Drive Configuration menu a wizard will execute allowing you to format your drives and create the volume RAID format. The following is an example of a RAID1 volume configuration:

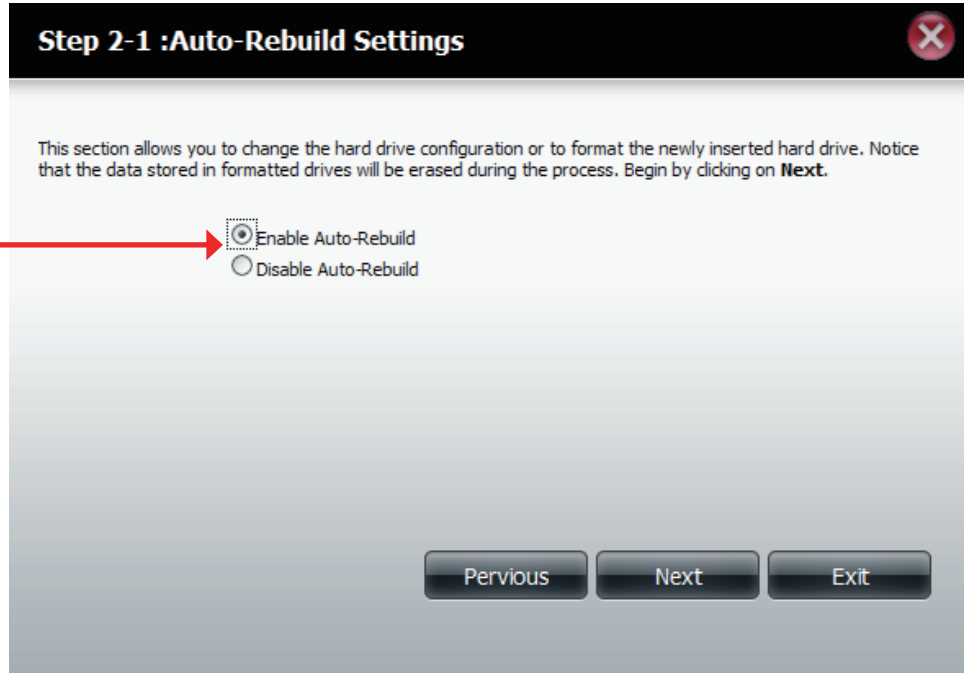
Initially the steps of the configuration process are shown. You must decide on the RAID type you would like to format your HDDs with. Click the Next button to continue with the configuration or exit to cancel it.

Step 1 displays the currently installed HDD information. Any data on the installed HDDs will be lost by the formatting. Click Next to continue.

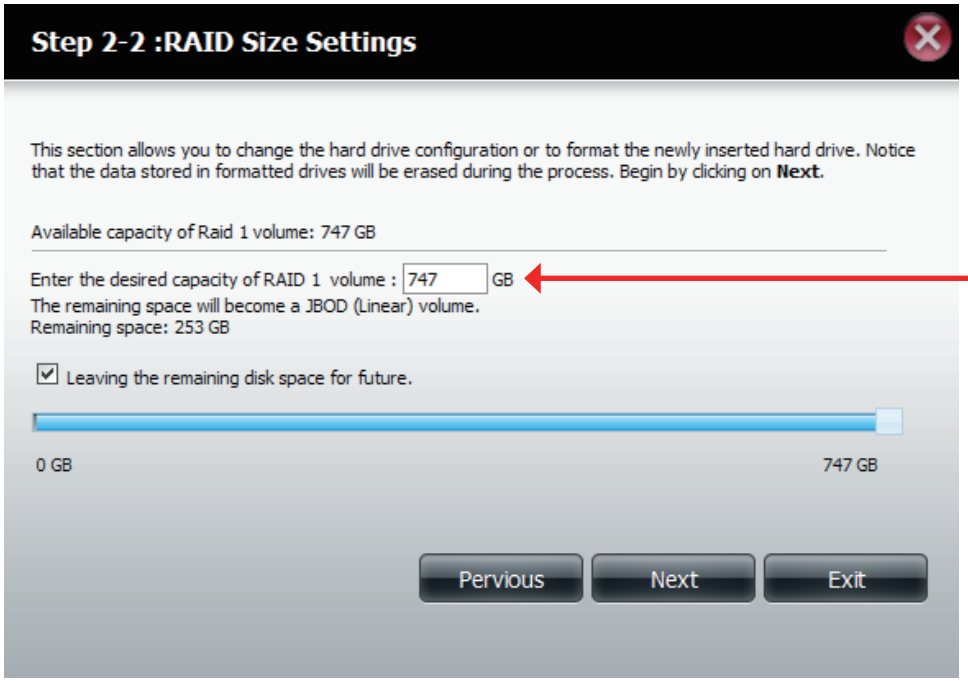




Select the RAID format desired by clicking on the RAID type box to highlight it in blue. In this example the maximum data protection option of RAID 1 is selected. Click Next to continue.

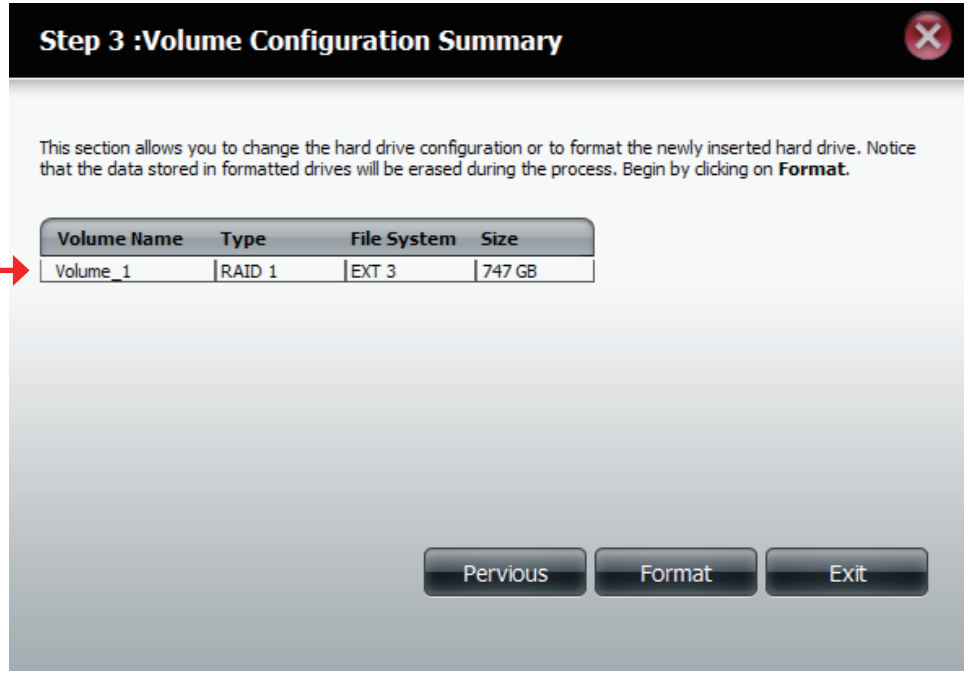


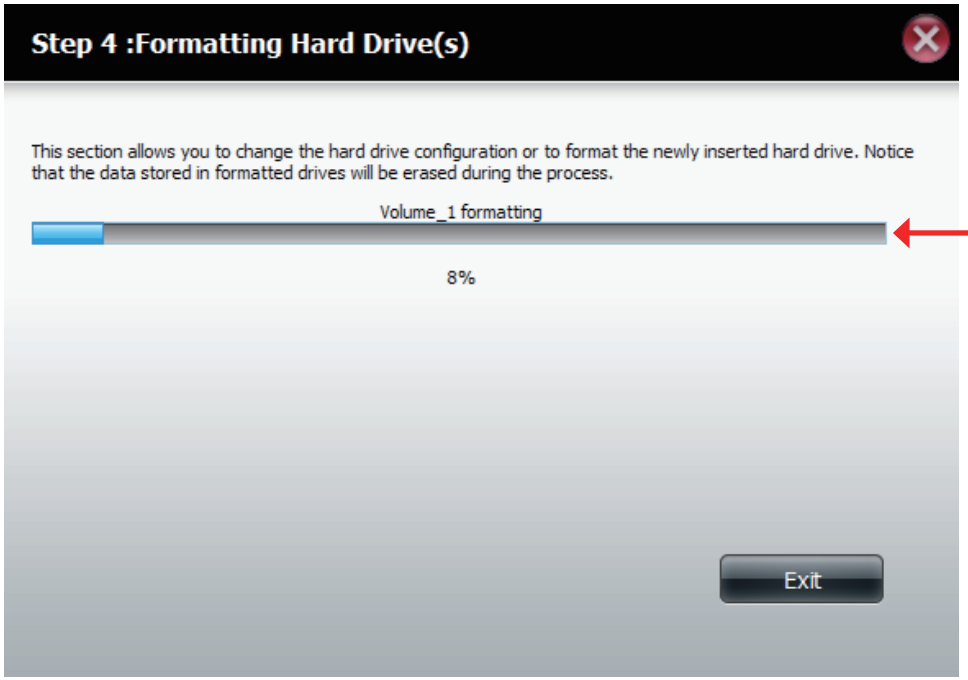
If you have selected RAID 1 then the wizard will display this step to enable or disable Auto-Rebuild. Auto-Rebuild will automatically rebuild a failed disk drive if it has been replaced with a new one. Set to disabled if you prefer to start this process manually. Click Next to continue.



If you select a RAID 0 or 1 option then you need to determine the size of the RAID volume. Any extra space will be formatted as a JBOD volume. Click Next to continue.

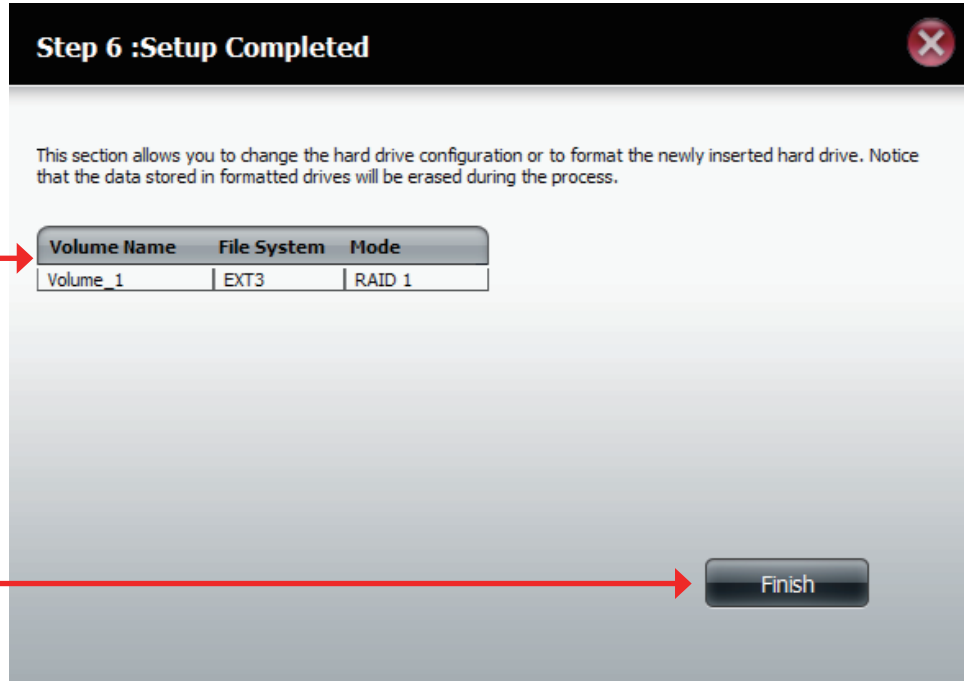
A Vclume Configuration Summary is displayed. Check the table and click Next to format the drives. Otherwise click Previous button to make changes to your configuration or click Exit to end the wizard.





During the formatting process a progress bar is displayed.

Once the formatting is complete, the wizard will display the finished Volume Configuration table.



Click **Finish** to end the wizard.

S.M.A.R.T. Test

S.M.A.R.T. stands for “Self-Monitoring, Analysis, and Reporting Technology”. This is a system on a hard drive used to monitor and report on the health of the drive. If the HD is grayed out, then it does not support S.M.A.R.T.

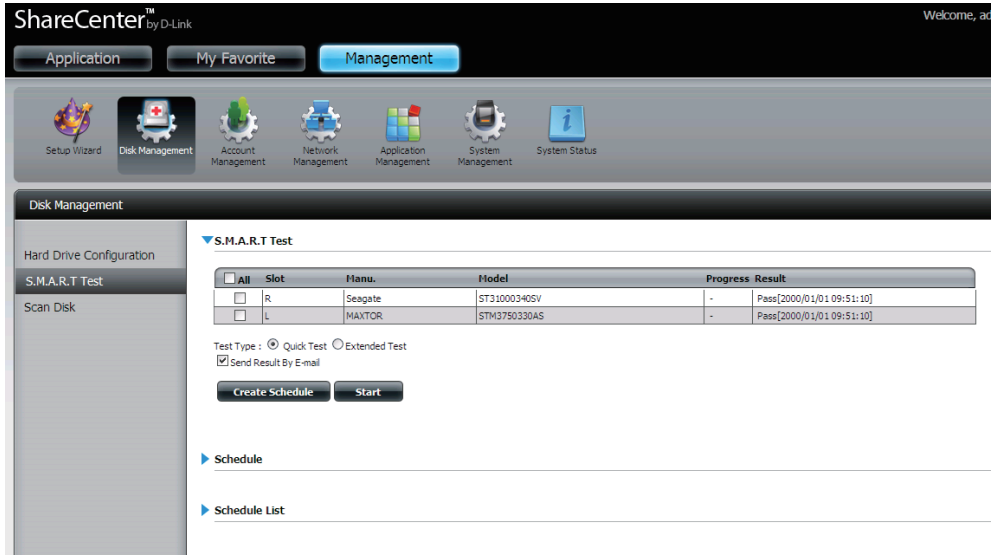
S.M.A.R.T. Test To run the S.M.A.R.T. test, select the hard drive you wish to perform the S.M.A.R.T. test on. Then select whether to run a Quick or Extended S.M.A.R.T. test. Then press “Start” to run the test. Press the Create Schedule button to run the test at a pre-determined time and date.

Quick Test Runs a quick S.M.A.R.T. test. The test usually takes less than 10 minutes. This test will check the electrical, mechanical, and read performance
of the hard drive. The results are displayed as Passed/Failed on the web UI and can also be sent as an e-mail alert.

Extended Test Runs an extended S.M.A.R.T. test. This test requires a lot more time to complete. However, it is a more thorough and complete test when compared to the Quick Test.

Send result by E-mail: Enable this function in order to have the results of the S.M.A.R.T. test sent to you by e-mail.

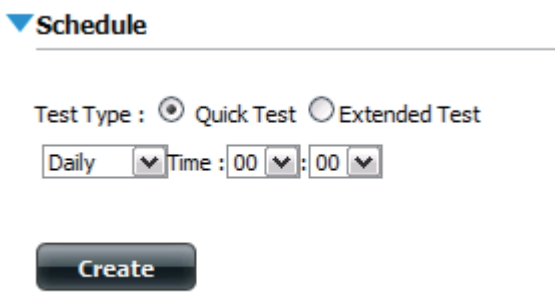
Create Schedule Click on this button in order to create a scheduled S.M.A.R.T. test. You will be able to schedule a test on a daily, weekly, and monthly basis.

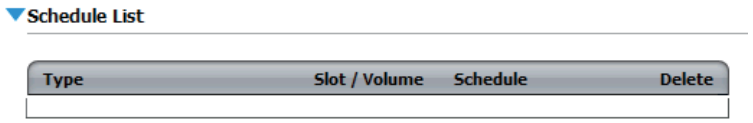


Schedule By clicking the “Create Schedule” button the user can create a S.M.A.R.T. test schedule where this test will run automatically at the configured time.

Select the frequency (Daily, Weekly, Monthly) and the Time here. Click on the ‘Create’ button to add a schedule.

Schedule List In the window all the created schedule lists will be displayed.





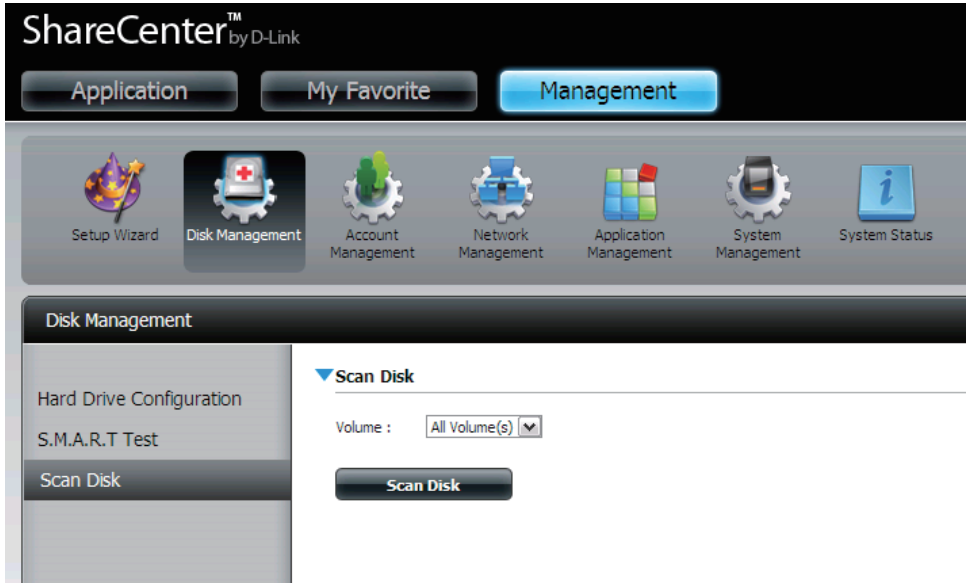
Scan Disk

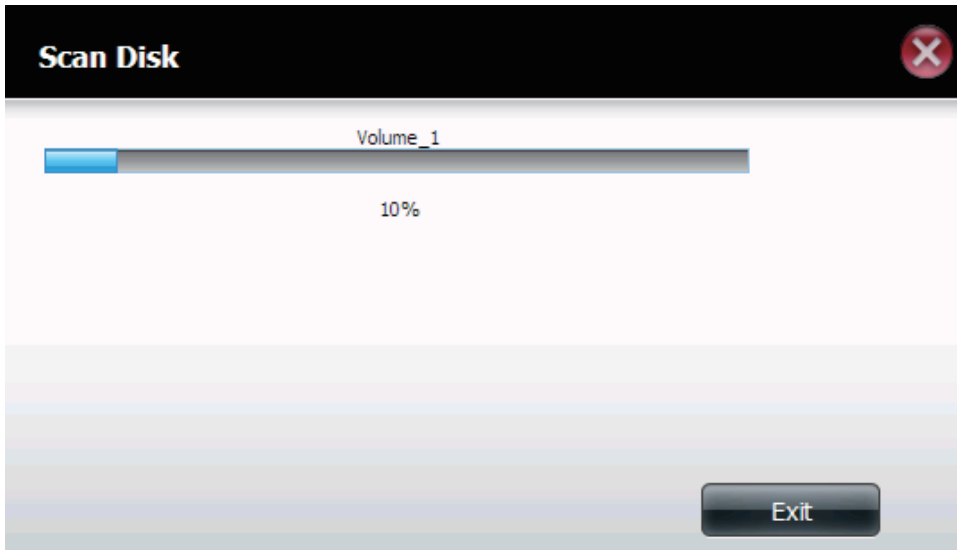
Scan disk provides a method to test the disk's file system in your ShareCenter.

Scan Disk Scan Disk will scan your disks file system for errors and/or corruption. After completion, the test results will show Success or Failure. Click on the Scan Disk button to start the test. If the test fails you can try reformating the drive and test again. Otherwise you will need 3rd party disk troubleshooting tools.

Volumet Use the drop-down menu to select the disk volume that you want to run the Scan Disk test on.

Scan Disk Progress Window If you have started a Scan Disk test then a window with a progress bar will appear to monitor the test. Click the exit button to abort the test if required or once the test has run 100 percent.





Account Management

Users / Groups

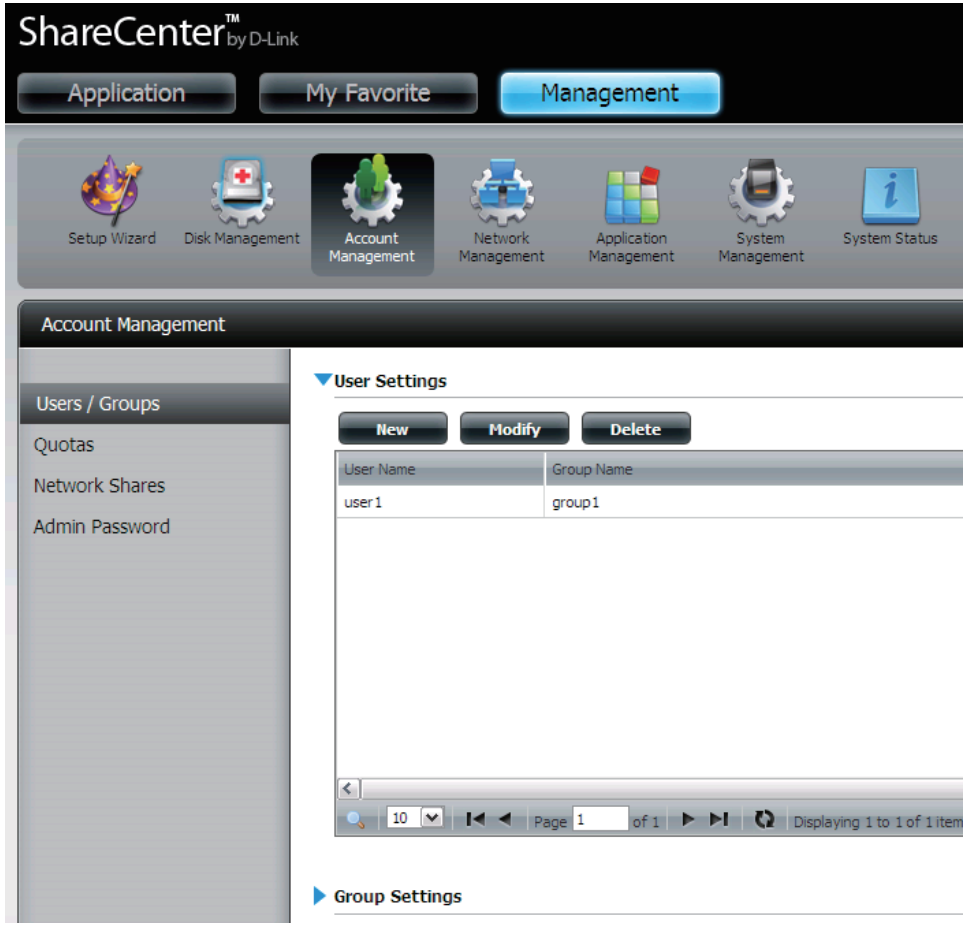
The Users / Groups menu is used to create and manage user and group accounts. Up to 256 users and 32 groups can be created. By default, all users have read and write access to all folders but access rules can be created in the Network Shares menu.

User Settings Your ShareCenter™ hard drives can be configured and formatted in various RAID configurations here.

New Click this button to launch a wizard that will step you through adding a new user configuration.

Modify Click on an existing user in the table so that it is highlighted in red and then Click the Modify button to change the configuration of an existing user.

Delete Click on an existing user in the table so that it is highlighted in red and then click the Delete button to remove a User from the configuration.



Adding New Users Wizard

The following section will describe how to add a new user on this device. To add a user click on the 'Add' button. A easy to configure wizard will be launched and look like the following:

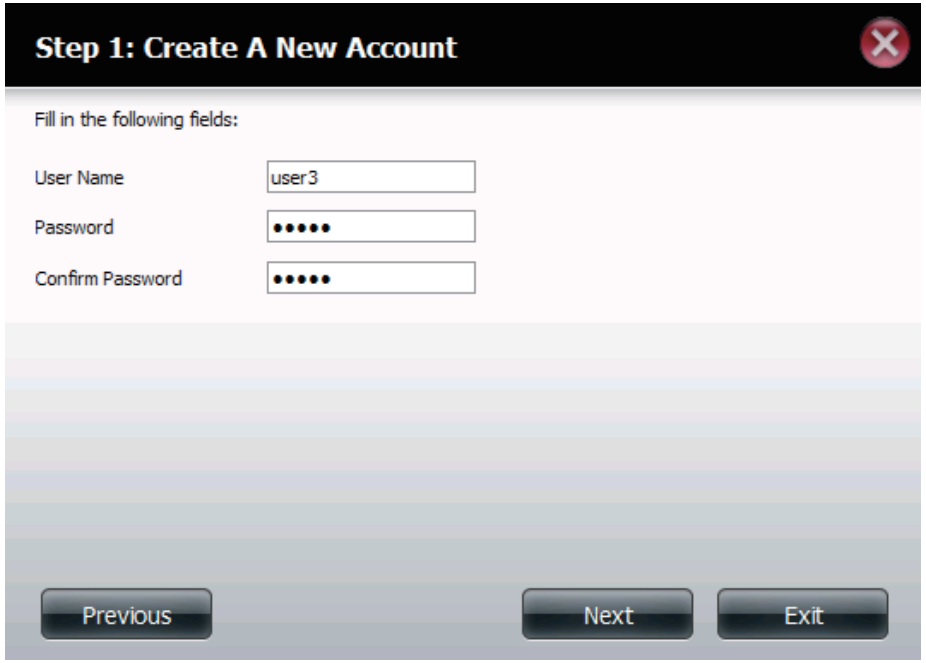
This window welcomes the user to the setup wizard for adding or modifying a user. This wizard will guide the user through the steps of setup.

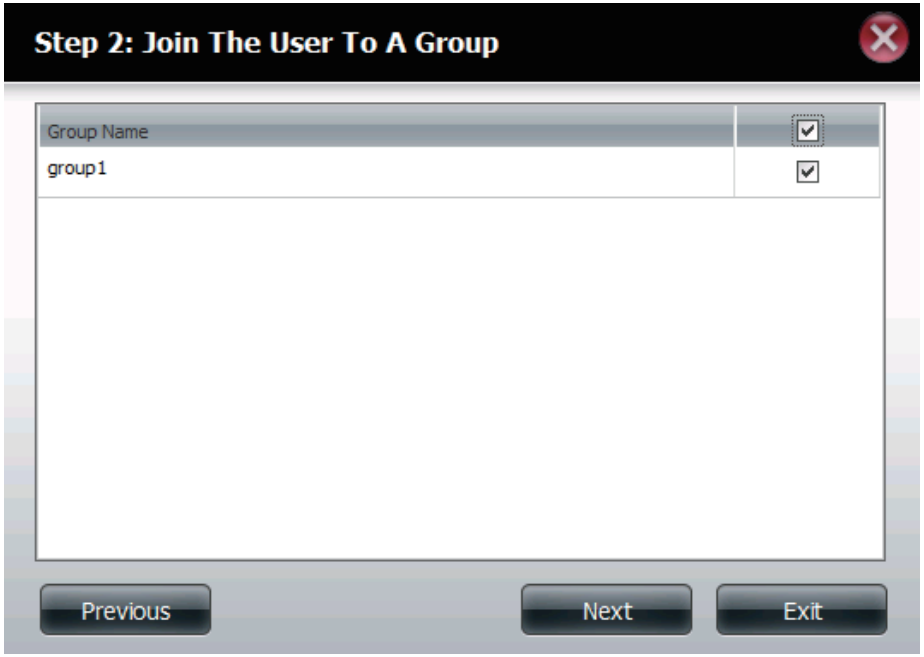
In this wizard the user will be able to:
1) Create a new user account.
2) Join the user to a group.
3) Configure the appropriate network shares settings.
4) Configure the user quota.
5) View a summary of the configuration before completing the addition.

Click on the 'Next' button to continue.
Click on the 'Exit' button to discard the changes made and return to the User/Group window.

Step 1: Here the user can enter the User Name and Password for the new user account. The password needs to be confirmed be re-entering the password in the Confirm Password field.

Click on the 'Previous' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the User/Group window.



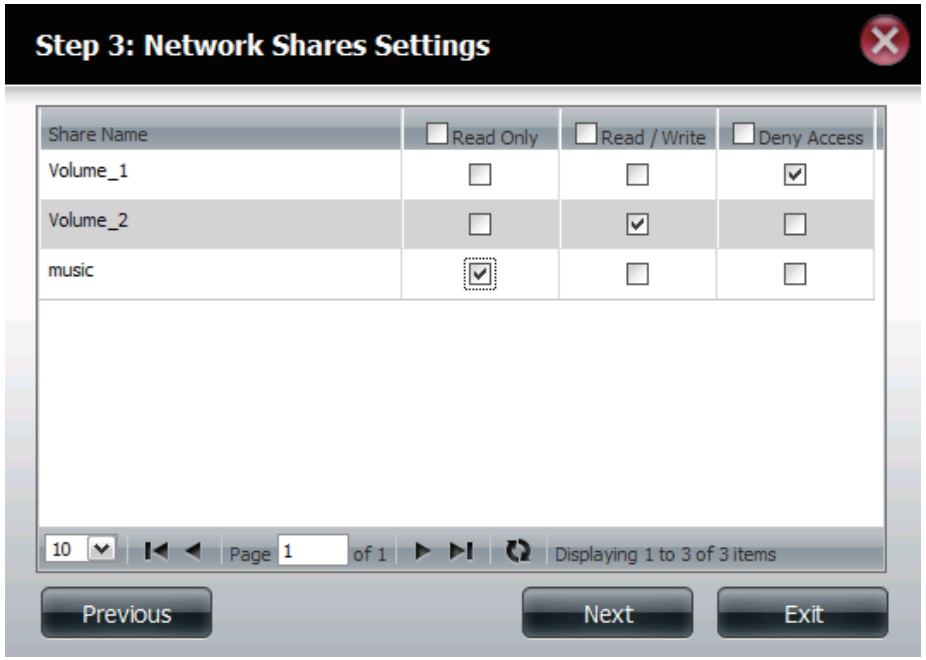


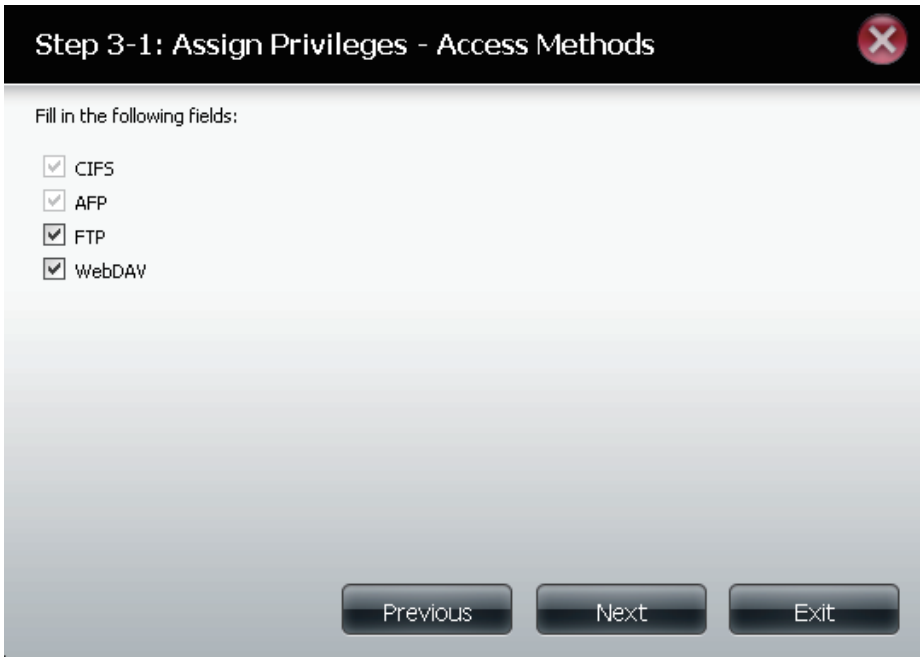
Step 2: Here the user can choose to configure this user account to belong to a group or not. Select the appropriate Group Name by ticking the check box.

Click on the 'Previous' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the User/Group window.

Step 3: Here the user can configure the appropriate Network Access settings for the user by simply ticking one of the following options. Read Only, Read Write or Deny Access.

Click on the 'Previous' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the User/Group window.





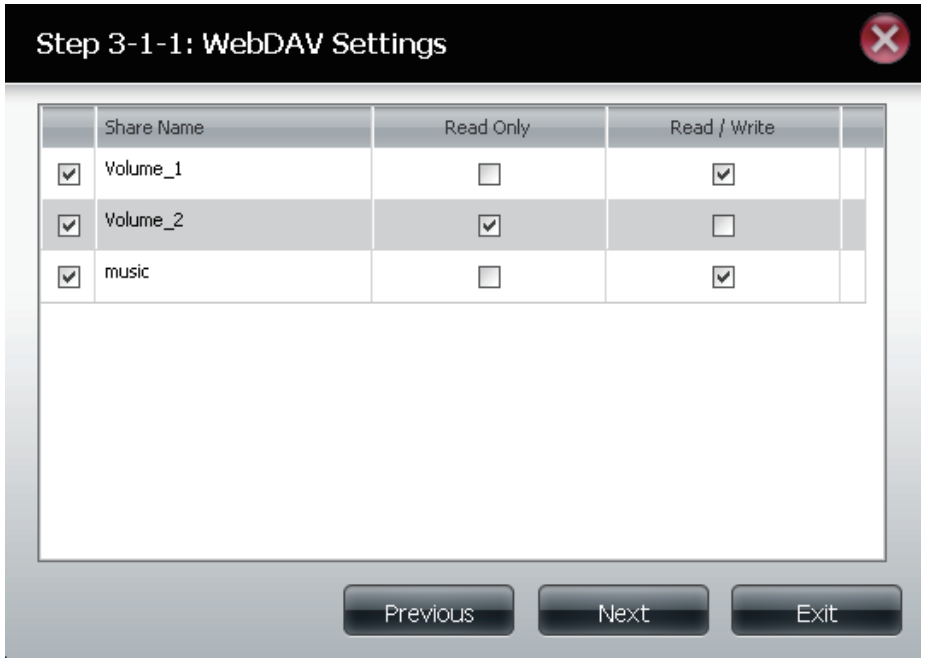
Step 3-1: Here the user can configure the application privileges assigned to this user. Option to select are FTP or WebDAV. CIFs and AFP is set as default.

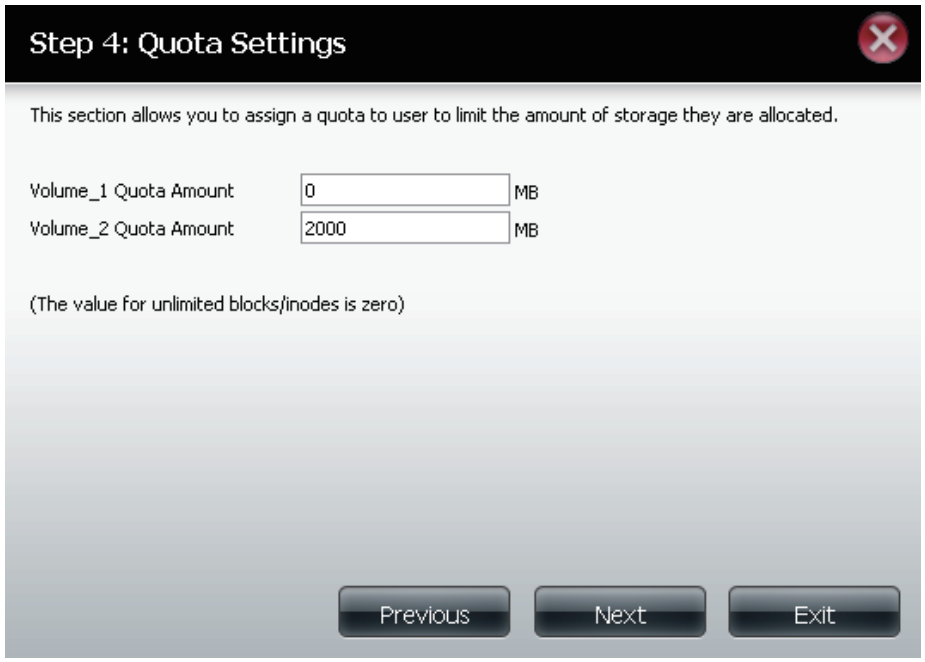
- **CIFS** is short for Common Internet File System
- **AFP** is short for Apple Filing Protocol
- **FTP** is short for File Transfer Protocol.
- **WebDAV** is short for Web-based Distribution, Authoring, and Versioning

Click on the 'Back' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the User/Group window.

Step 3-1-1: Here the user can configure the WebDAV settings for the user account. Select the volumes the user can have WebDAV access to and then select whether to give Read Only or Read/Write access.

Click on the 'Previous' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the User/Group window.





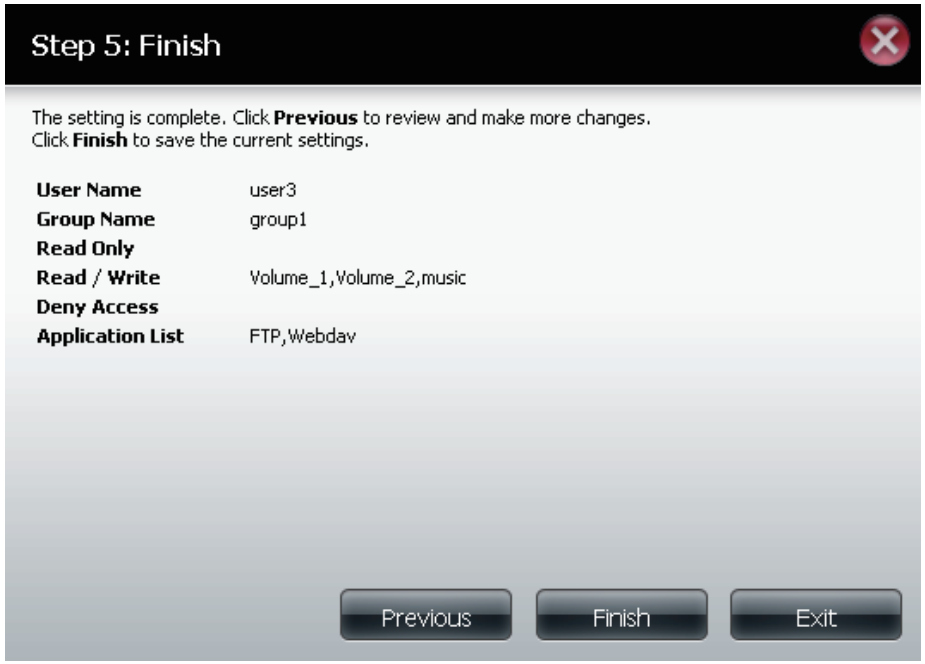
Step 4: Here the user can configure the Quotas settings for the user account. Enter the quota amount in the block(s) indicated in Megabytes. By entering 0Mb the quota will be set to unlimited.

Click on the 'Back' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the User/Group window.

Step 5: Here the user can confirm to create the new account.

Click on the 'Back' button to return to the previous window.
Click on the 'Completed' button to accept the change and complete the wizard.
Click on the 'Exit' button to discard the changes made and return to the User/Group window.

After the new account has been created, a window will appear that states the account was created successfully. Click on the 'OK' button to continue.



A final message appears indicating the user is successfully added to the ShareCenter configuration..

Adding New Groups Wizard

The following section will describe how to add a new group on this device. To add a group click on the 'Add' button. A easy to configure wizard will be launched and look like the following:

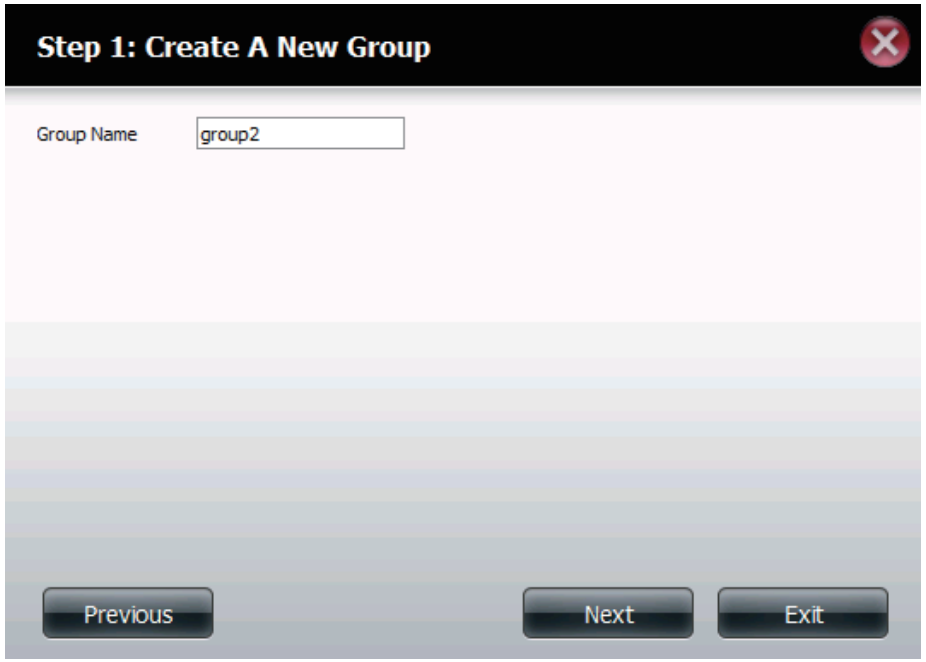
Start: This window welcomes the user to the setup wizard for adding or modifying a group. This wizard will guide the user through the steps of setup.

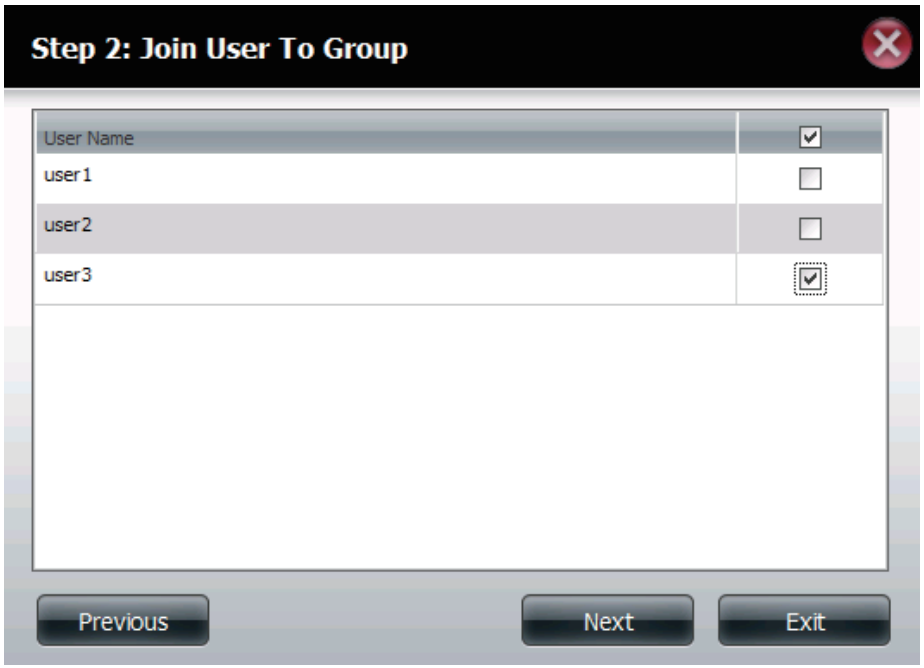
In this wizard the user will be able to:
1) Create a new group.
2) Join the user to a group.
3) Configure the appropriate network shares settings.
4) Configure the quota settings.
5) View a summary of the configuration before completing the addition.

Click on the 'Next' button to continue.
Click on the 'Exit' button to discard the changes made and return to the User/Group window.

Step 1: Here the user can enter the Group Name for the new group being created.

Click on the 'Previous' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the User/Group window.



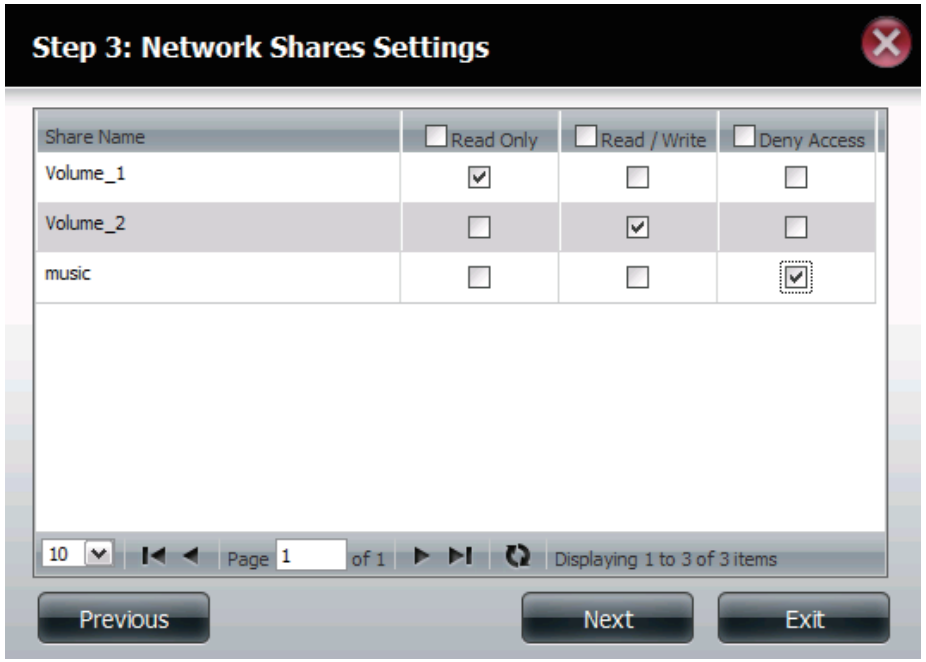


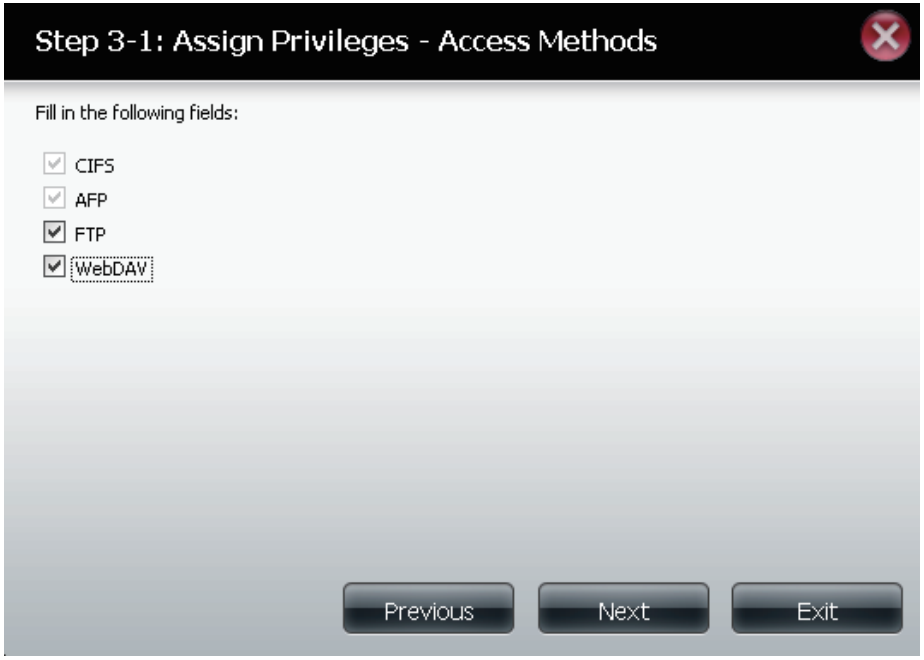
Step 2: Here the user can choose to configure a user account to belong to this group or not. Select the appropriate user by ticking the check box next to it.

Click on the 'Previous' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the User/Group window.

Step 3: Here the user can configure the appropriate Network Access settings for this group by simply ticking one of the following options. Read Only, Read Write or Deny Access.

Click on the 'Previous' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the User/Group window.





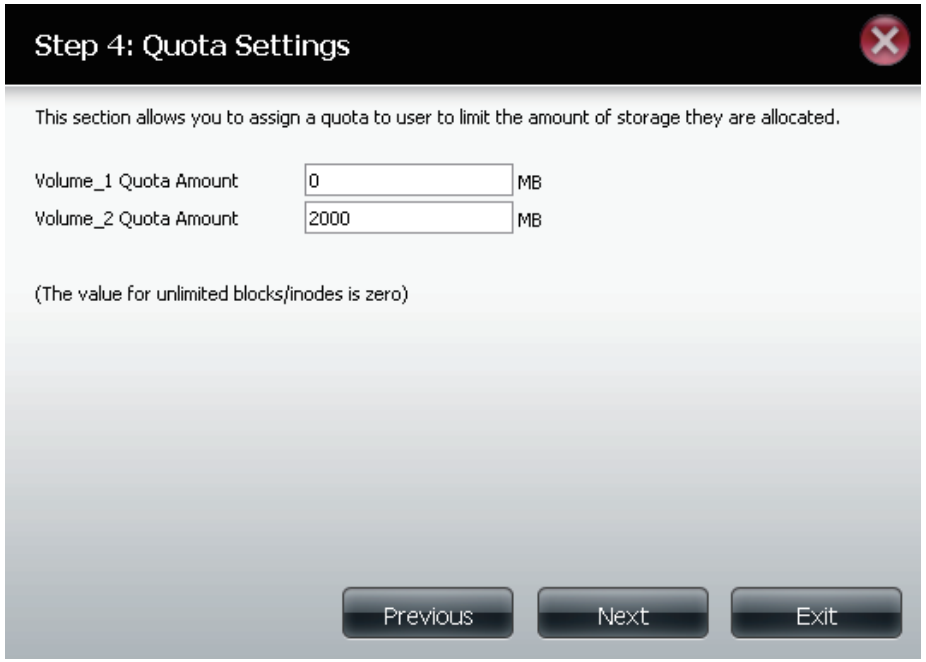
Step 3-1: Here the user can configure the application privileges assigned to this group. Options to select are FTP or WebDAV. CIFS and AFP is set as default.

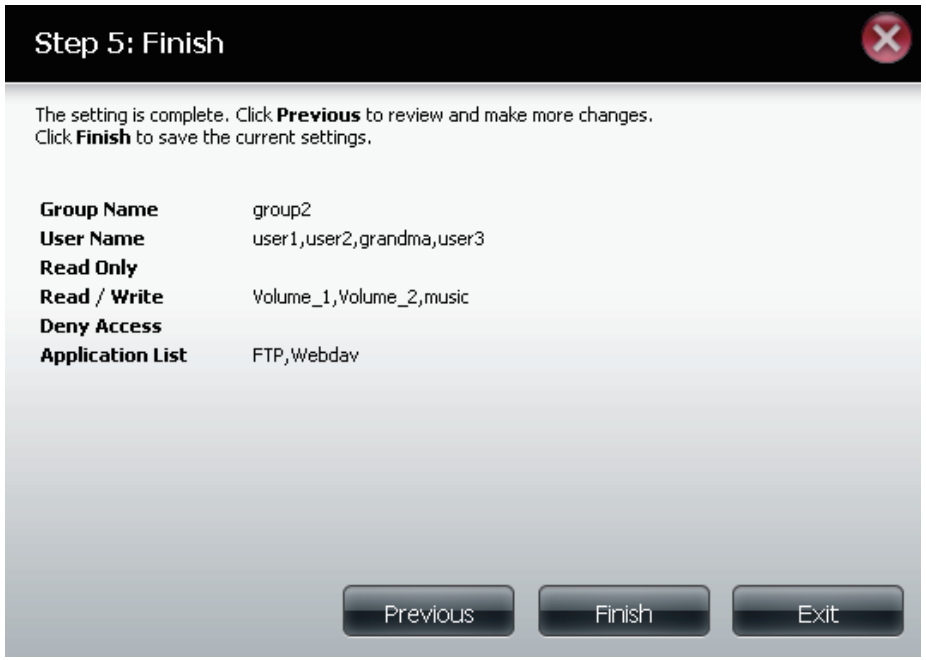
- **CIFS** is short for Common Internet File System
- **AFP** is short for Apple Filing Protocol
- **FTP** is short for File Transfer Protocol.
- **WebDAV** is short for Web-based Distribution, Authoring, and Versioning

Click on the 'Previous' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the User/Group window.

Step 4: Here the user can configure the Quotas settings for this group. Enter the quota amount in the block indicated in Megabytes. By entering 0Mb the quota will be set to unlimited.

Click on the 'Previous' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the User/Group window.





Step 5: Here the user can confirm to create the new group.

Click on the 'Back' button to return to the previous window.
Click on the 'Completed' button to accept the change and completed the wizard.
Click on the 'Exit' button to discard the changes made and return to the User/Group window.

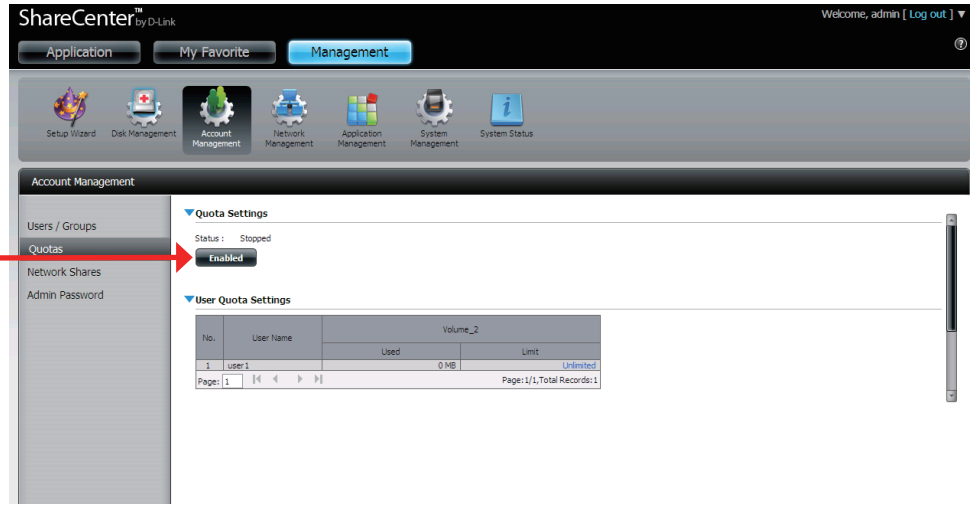
After the new group has been created, a window will appear that states the group was created successfully. Click on the 'OK' button to continue.

Success A final message appears indicating the group was created successfully and added to the ShareCenter configuration.

Quotas

The ShareCenter supports storage quotas for both groups and individual users. Assigning a quota to a group or user will limit the amount of storage they are allocated. By default, users and groups do not have a quota.

Enabling quotas by clicking the enabled button will enforce the quotas that are set in the Users / Groups management or the tables below



In the User Quota Settings table you can view the current user usage and limit setting. Clicking on the blue font usage limits allows you to set the limit.

User Quota Settings

No.	User Name	Volume_1		Volume_2	
		Used	Limit	Used	Limit
1	user1	0 MB	Unlimited	0 MB	Unlimited
2	user2	0 MB	Unlimited	0 MB	Unlimited
3	user3	0 MB	Unlimited	0 MB	2000 MB

Page: 1 Page:1/1,Total Records:3

In the Group Quota Settings table you can view the current group usage and limit setting. Clicking on the blue font usage Limit fields allows you to set the limit.

Group Quota Settings

No.	Group Name	Volume_1		Volume_2	
		Used	Limit	Used	Limit
1	group1	0 MB	Unlimited	0 MB	Unlimited
2	group2	0 MB	1000 MB	0 MB	2000 MB

Network Shares

The Network Shares page allows the user to configure shared folders and rights to specific users and groups. To be able to create new network access rules, the default rule must first be removed by simply selecting it and clicking on the 'Delete' button. You can also mount .iso files in the ISO Mount Shares Setting. If a user has access to a mounted .iso file then that user will be able to read all the files within it.

Network Shares: / ISO Mount Shares

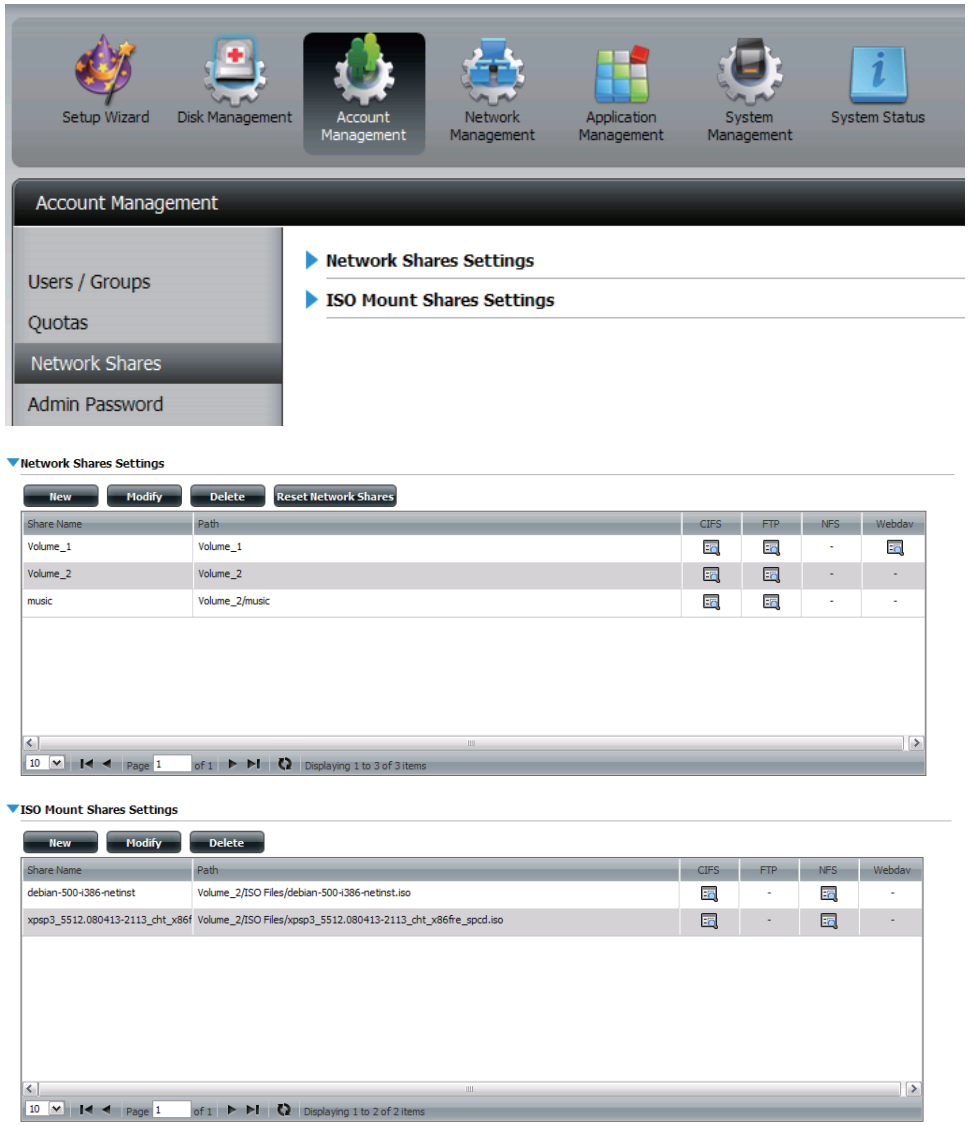
The Network Shares Settings window allows the user to add, modify and remove both new and existing Network Share and ISO Mount Share Settings.

To add a rule click on the 'Add' button. To modify an existing rule click on the 'Modify' button. To remove a rule click on the 'Delete' button.

To select a rule, simply click on the rule and the entry should change to a red color that indicates it's selected for use.

At the bottom of the table the user can navigate through pages and also refresh the window by click on the 'Refresh' button.

Lastly, if at any point the user want to reset the network access list to the default configuration, click on the 'Reset Network Shares' button



Adding New Network Shares Wizard

The following section will describe how to add a new Network Share on the ShareCenter. To add a Network Share click on the 'Add' button. A easy to configure wizard will be launched and look like the following:

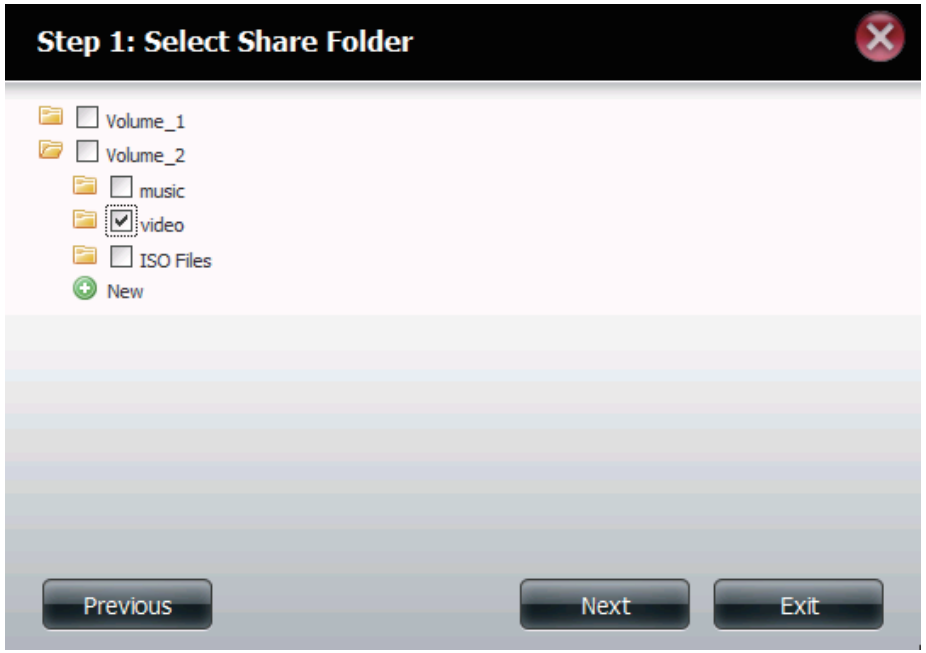
Start: This window welcomes the user to the setup wizard for adding or modifying a network share. This wizard will guide the user through the steps of setup.

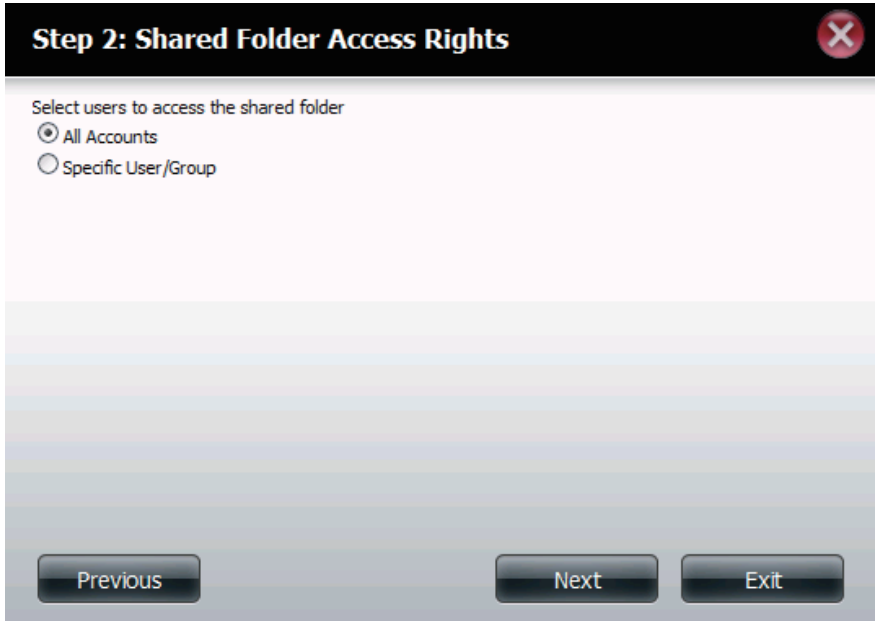
In this wizard the user will be able to:
1) Select share folders.
2) Configure shared folder access rights.
3) Configure network access settings.
4) View a summary of the configuration before completing.

Click on the 'Next' button to continue.
Click on the 'Exit' button to discard the changes made and return to the Network Shares Page.

Step 1: Here the user can select the appropriate folder to include in this network share by ticking the respective folder.

Click on the 'Previous' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the Network Shares Page.



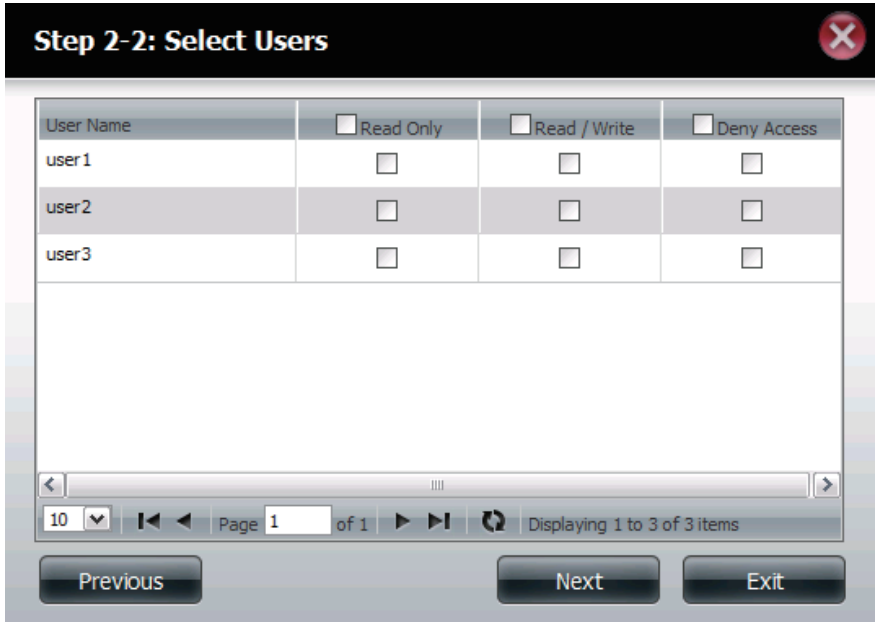


Step 2 Here the user can choose which user accounts or group are allowed to access this folder(s). Select 'All account' to allow access to this folder to all the accounts. Select 'Specific User/group' to only allow certain users or groups access to this folder.

Click on the 'Previous' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the Network Shares Page.

Step 2-1 Here the user can select the appropriate access rights for the share. Options to choose from are 'Read Only', 'Read Write' and ' Deny Access'. So yes, this procedure can also be used to block certain users from accessing certain folders.

Click on the 'Previous' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the Network Shares Page.

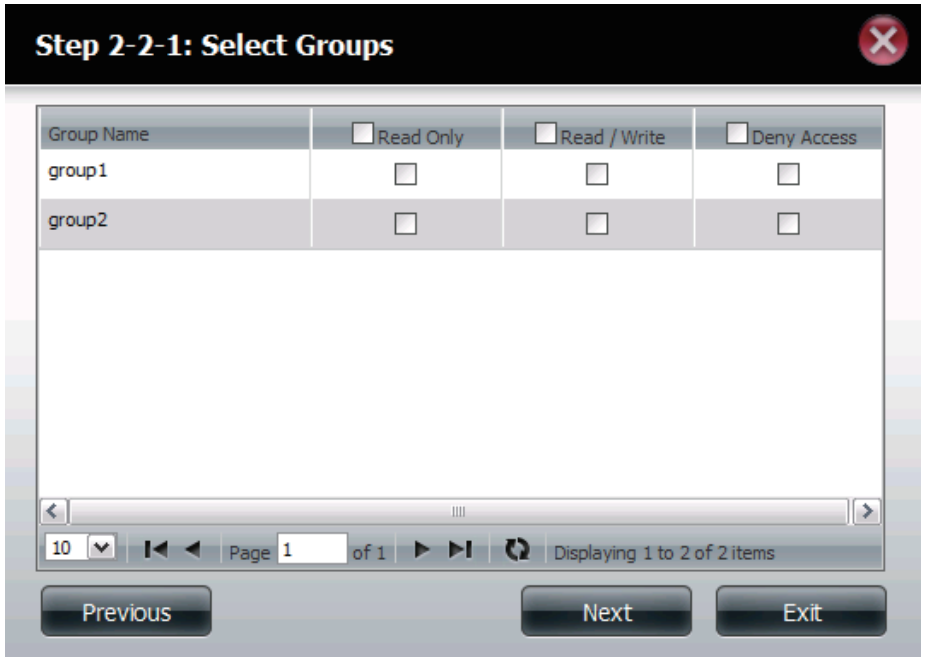


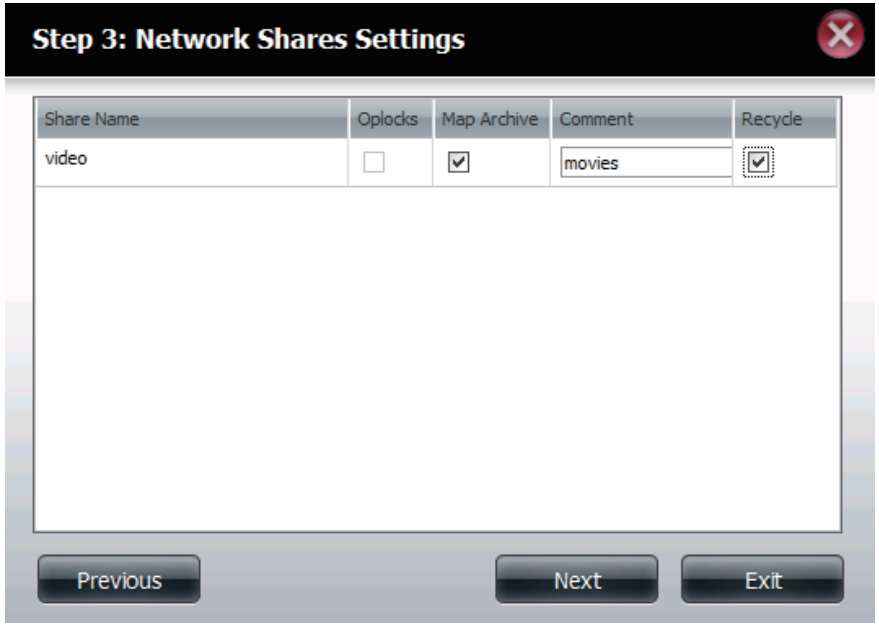
Step 2-2 If you select specific user / group in Step 2 then this step allows you to set the access rights for each User configured on the ShareCenter

Click on the 'Previous' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the Network Shares Page.

Step 2-2- 1: If you select specific user / group in Step 2 then this step allows you to set the access rights for each Group configured on the ShareCenter.

Click on the 'Previous' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the Network Shares Page.



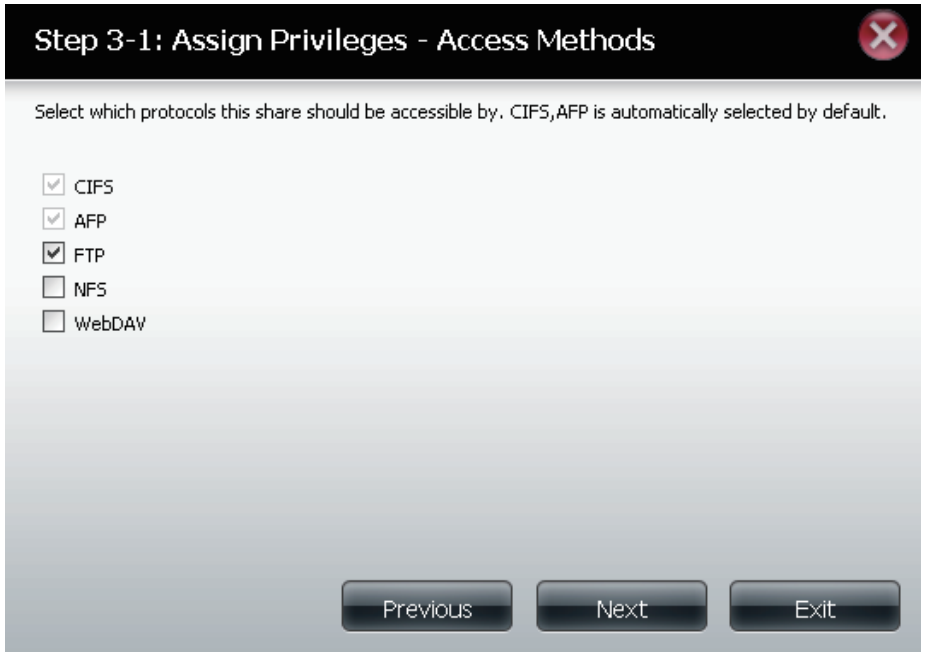


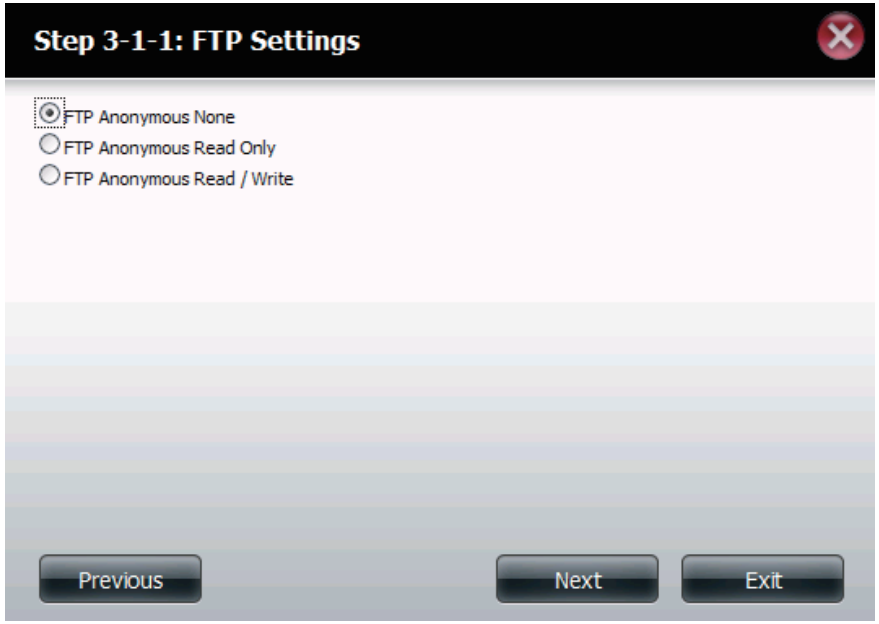
Step 3 Here the user can assign privileges to this share. Opportunistic locks (oplocks) are a characteristic of the LAN Manager networking protocol implemented in the 32bit Windows family. Oplocks are guarantees made by a server for a shared logical volume to its clients. These guarantees inform the Client that a file's content will not be allowed to be changed by the server, or if some change is imminent, the client will be notified before the change is allowed to proceed. Oplocks are designed to increase network performance when it comes to network file sharing. However it is recommended to set the share oplocks to No (off) when using file-based database applications. When enabled, the file attribute "Map Archive" will be copied as the file is being stored on the ShareCenter.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the Network Shares Page.

Step 3-1: Here the user can assign more protocol privileges that a user can use to access this share. Options to choose from are FTP, NFS and WebDAV. CIFS and AFP are set as default.

- **CIFS** is short for Common Internet File System.
- **AFP** is short for Apple Filing Protocol.
- **FTP** is short for File Transfer Protocol
- **NFS** is short for Network File System.
- **WebDAV** is short for Web-based Distributed Authoring and Versioning.

Click on the 'Previous' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the Network Shares Page.



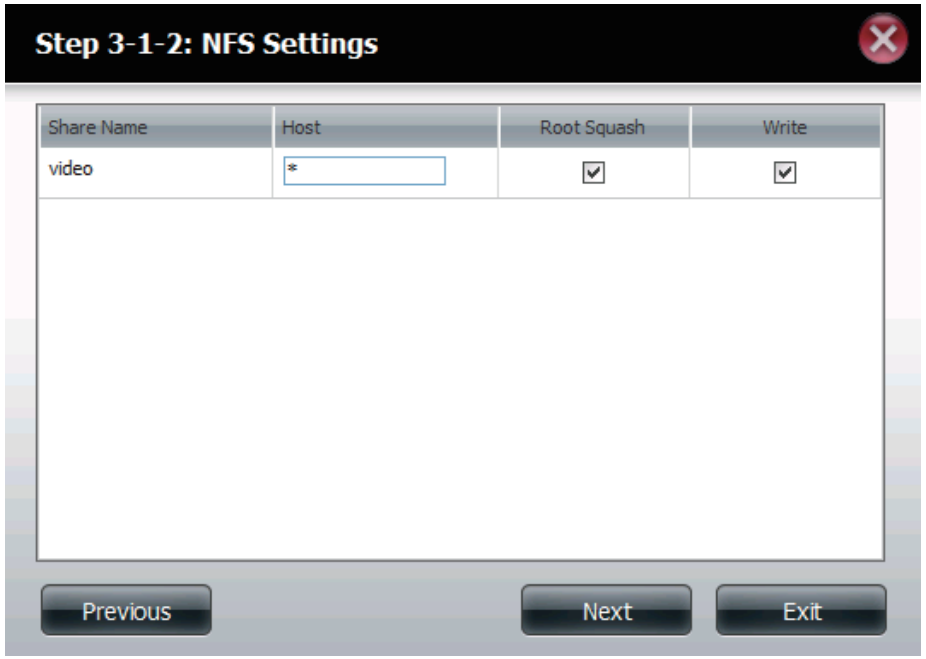


Step 3-1-1 Here the user can configure the FTP settings for this share. FTP access can be:
1) FTP Anonymous None (No Access).
2) FTP Anonymous Read Only (Limited Access).
3) FTP Anonymous Read/Write (Full Access).

Click on the 'Previous' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the Network Shares Page.

Step 3-1-2: If you checked NFS as an access method to your network share then this step allows you to set the parameters below:

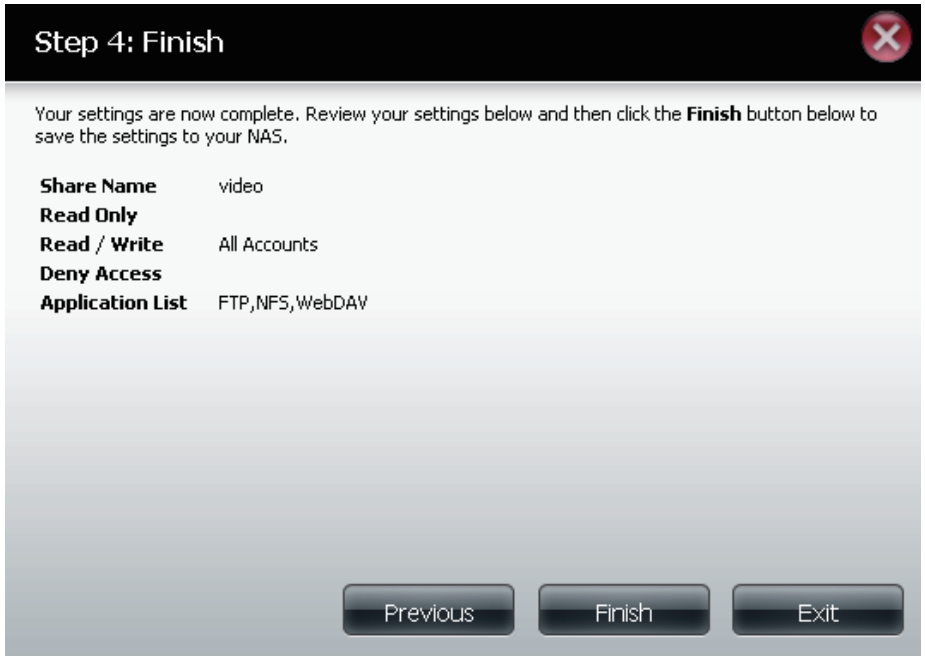
- **Host** - Allowable host address that can access using NFS (* indicates all hosts)
- **Root Squash** - Disables writing to the Root owned directories and files on the system when the user has root access privileges.
- **Write** - provide write permission to the file system.



Step 3-1-3 If you checked WebDAV as an access method in Step 3 then this step allows you to set the access parameters.

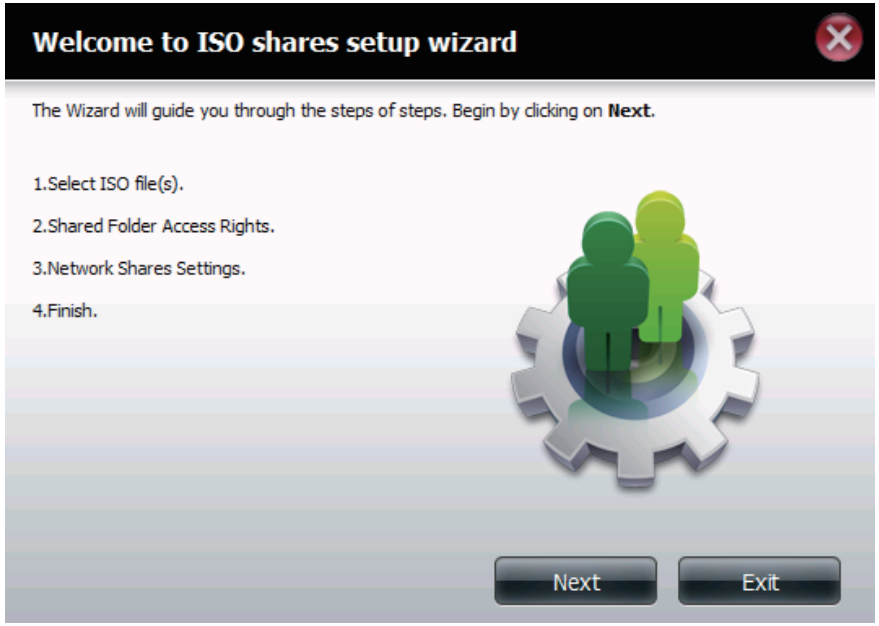
Step 4: Here the user view a summary of the share created.

Click on the 'Previous' button to return to the previous window.
Click on the 'Completed' button to accept the change and complete the wizard.
Click on the 'Exit' button to discard the changes made and return to the Network Shares Page.



Adding New ISO Mount Shares Wizard

The following section will describe how to add a new ISO mount on the ShareCenter. To add a ISO Mount click on the 'Add' button. A easy to configure wizard will be launched and look like the following:

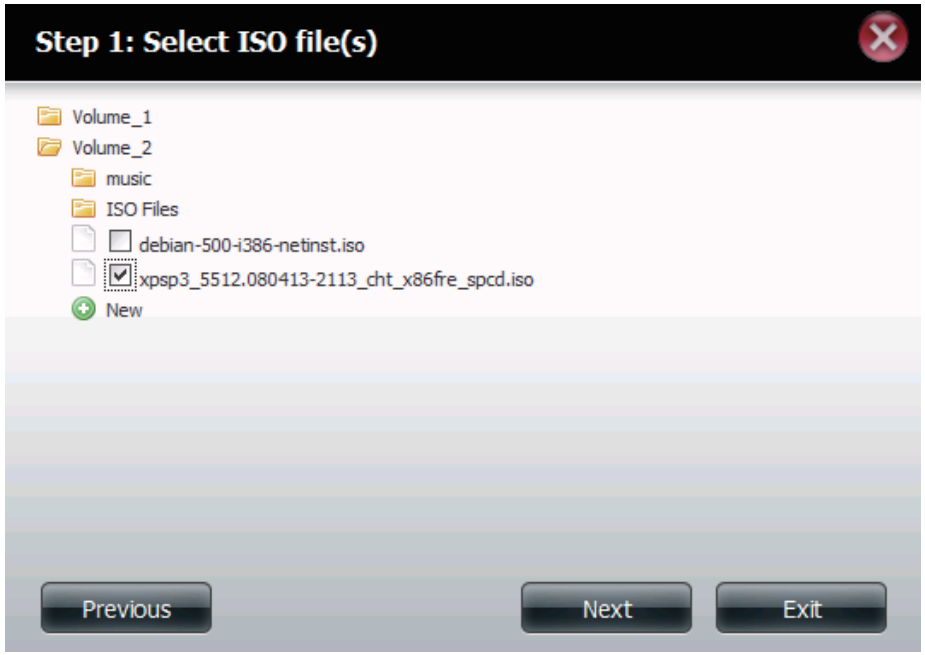


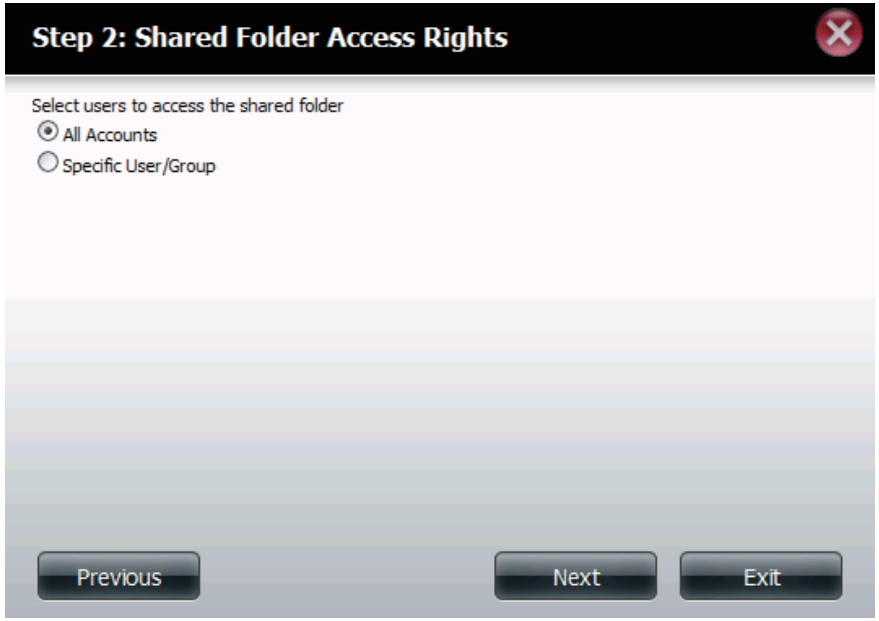
Step 2-2 If you select specific user / group in Step 2 then this step allows you to set the access rights for each User configured on the ShareCenter

Click on the 'Previous' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the Network Shares Page.

Step 2-2- 1: If you select specific user / group in Step 2 then this step allows you to set the access rights for each Group configured on the ShareCenter.

Click on the 'Previous' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the Network Shares Page.





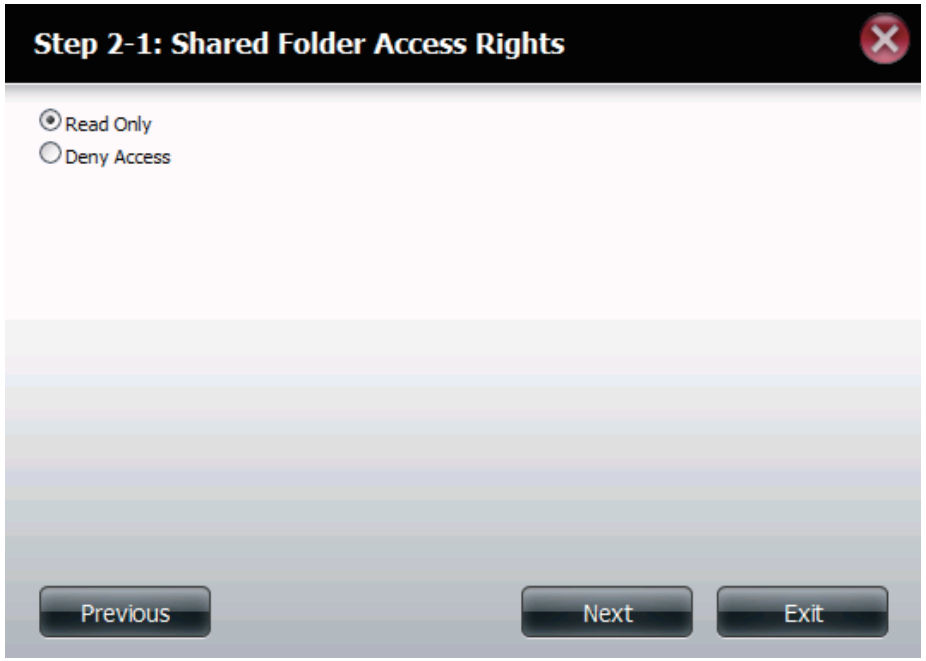
Step 3 Here the user can assign access privileges to this ISO Mount share.

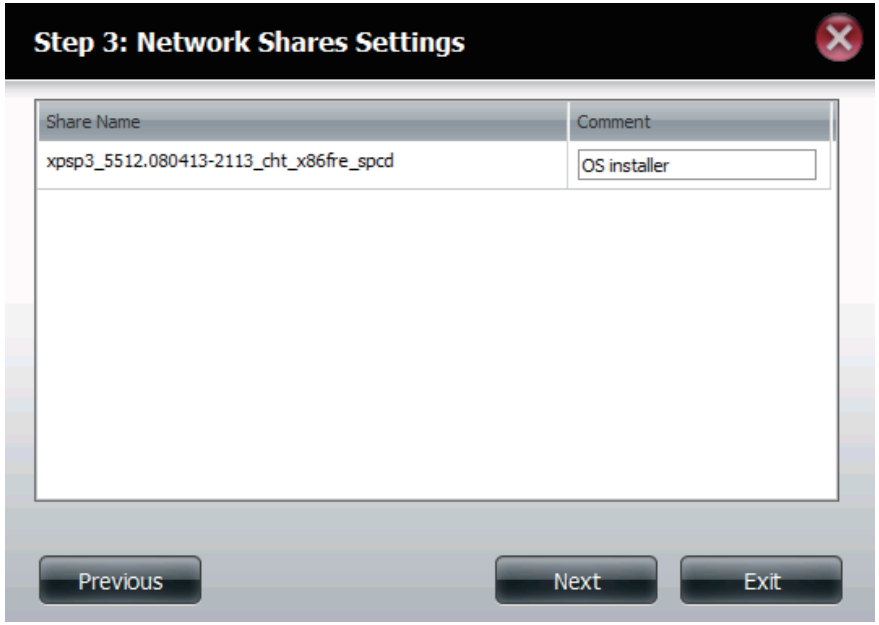
- Select All Accounts to assign the ISO Mount share read/deny privileges to all users.
- Select Specific User/Group in order to assign read/deny privileges to individual users and groups.

Click on the 'Previous' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the Network Shares Page.

Step 3-1: The user can assign Read Only or Deny Access privileges to the ISO Mount share here. Click on the appropriate radio button for the privileges you would like to assign.

Click on the 'Previous' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the Network Shares Page.





Step 3 Use this window to add a comment that describes the ISO Mount Share.

Click on the 'Previous' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the Network Shares Page.

Step 3-1: Here the user can assign more protocol privileges that a user can use to access this share. Options to choose from are FTP, NFS and WebDAV. CIFS and AFP are set as default.

- **CIFS** is short for Common Internet File System.
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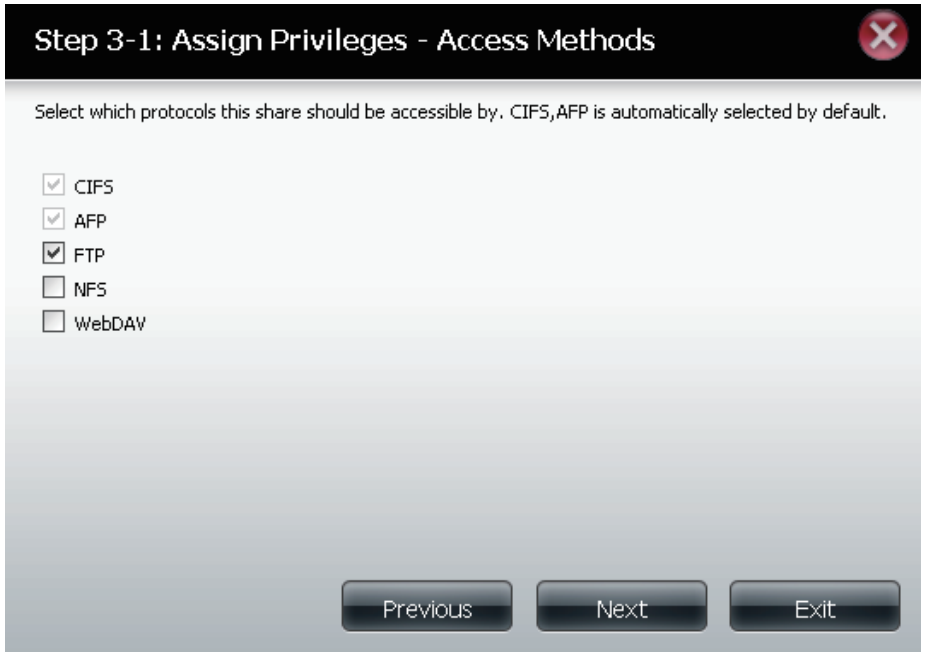
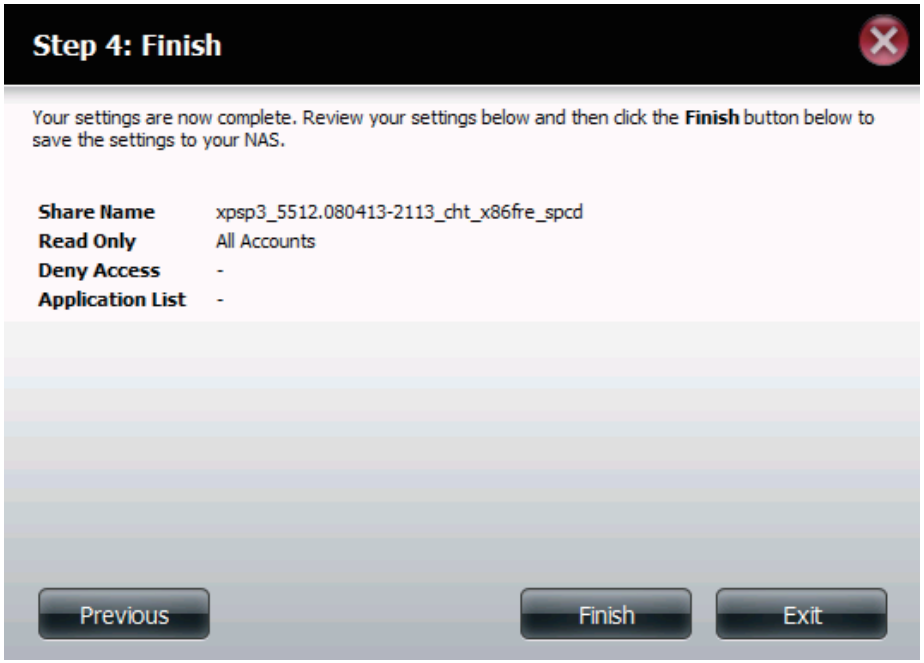
- **FTP** is short for File Transfer Protocol
- **NFS** is short for Network File System.
- **WebDAV** is short for Web-based Distributed Authoring and Versioning.
-

Click on the 'Previous' button to return to the previous window.
Click on the 'Next' button to accept the change and continue to the next window.
Click on the 'Exit' button to discard the changes made and return to the Network Shares Page.

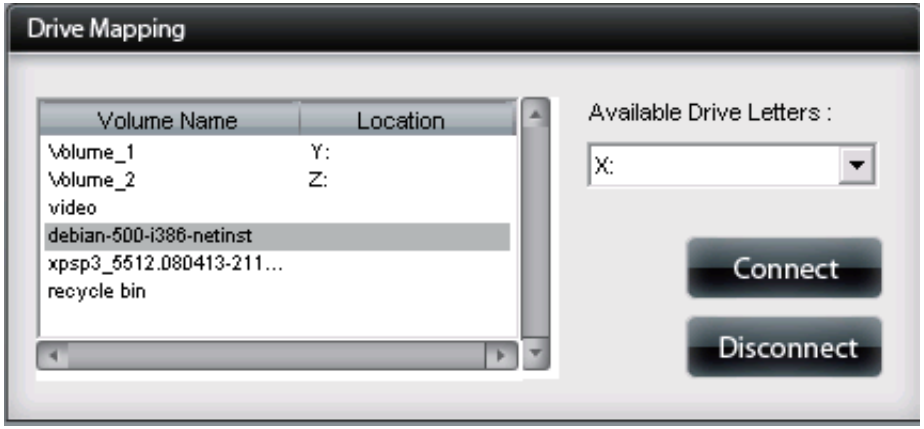




Step 4 Here the user view a summary of the share created.

Click on the 'Previous' button to return to the previous window.
Click on the 'Completed' button to accept the change and complete the wizard.
Click on the 'Exit' button to discard the changes made and return to the Network Shares Page..

Step 5: Using the D-Link Storage Utility the ISO Mount Share can now be mapped to your computer so that you can access it and the files within it as a normal network share is accessed.



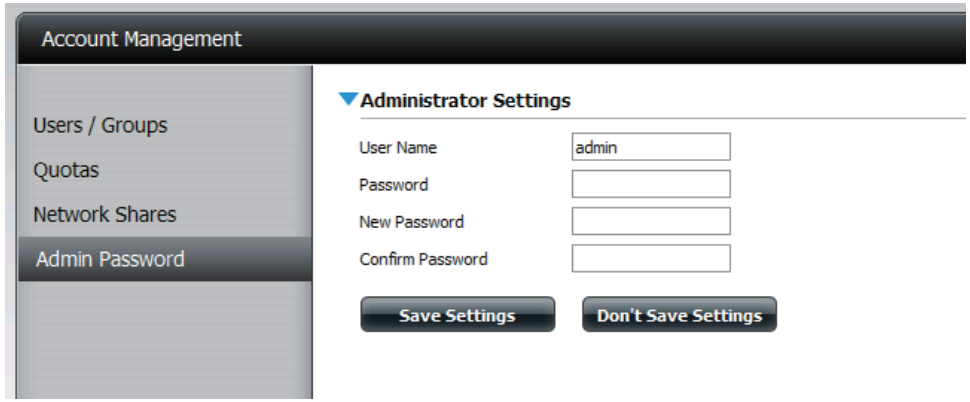
Admin Password

Username This field cannot be modified as the administrator always uses the admin username.

Password Input the existing admin password.

New Password Input the new admin password.

Confirm Password Repeat the new admin passoword.

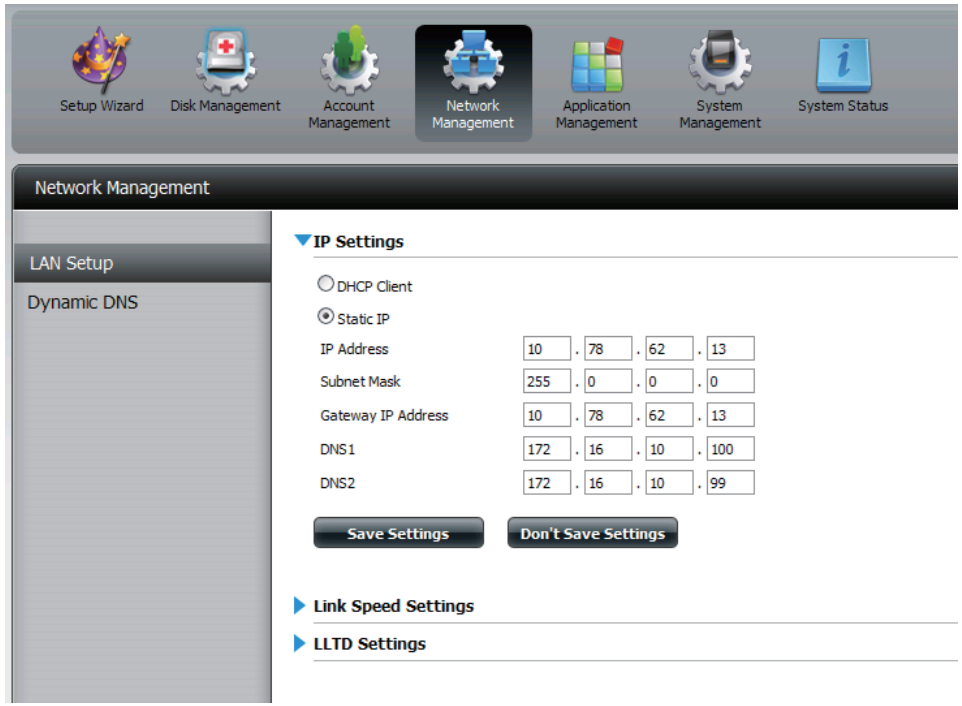


Network Management

LAN Setup

The LAN Settings allows you to enable LLTD and to configure the Link Speed and the IP address as a DHCP client or Static IP.

IP Settings



DHCP Client By selecting 'DHCP Client', the ShareCenter will act as a DHCP client and obtain its LAN IP settings from the DHCP (Dynamic Host Configuration Protocol) server on the local network. By default, the ShareCenter is set to obtain an IP address from a DHCP server on your network.

Static IP If necessary, you can assign a static IP address to the ShareCenter .

IP Address The IP address of each device on the local area network must be within the same IP address range and subnet mask. For a small subnet with less than 253 IP addresses assigned (e.g. Class C private IP), each device on the LAN (Local Area Network) needs have a unique IP Address in the format of (example) 192.168.0.x to connect to other devices within the same network.

Subnet Mask Specify the subnet mask for the ShareCenter . The Subnet mask must be the same for all devices on the same subnet of the network. The default subnet setting is 255.255.255.0. For a small subnet with less than 253 IP addresses assigned (e.g. Class C private IP), keep this default setting.

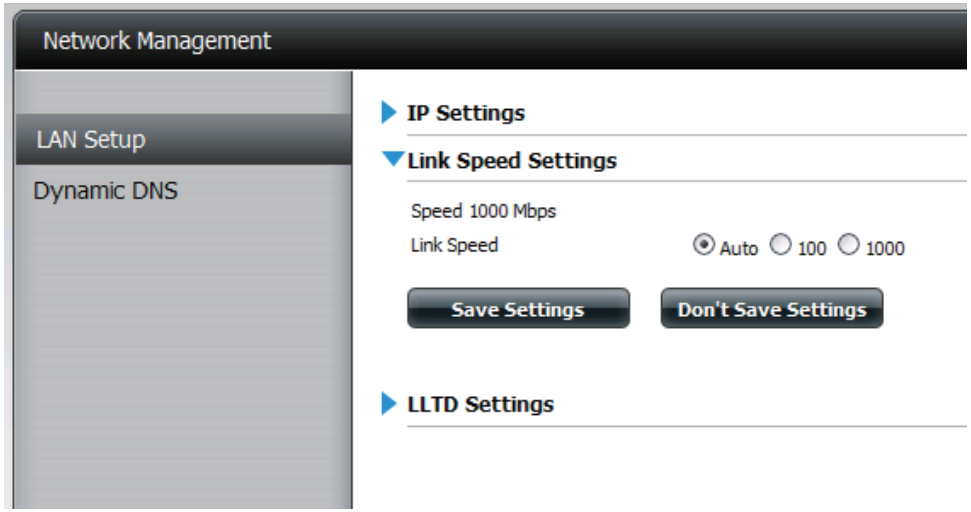
Gateway IP Address Specify the Gateway IP Address for the ShareCenter . The Gateway IP Address is almost always the LAN address of your router. Most D-Link routers have a default LAN IP address of 192.168.0.1.

DNS1/ DNS2 Specify the first and second DNS Addresses for the ShareCenter . A DNS Address will allow the ShareCenter to resolve names into IP addresses. Example: Without a DNS address, the ShareCenter would not be able to contact an FTP site such as ftp.dlink.com (name). Instead, you would need to use 64.7.210.131 (IP address). It is recommended that you enter DNS addresses when setting a Static IP Address. Often you can use the LAN IP address of your router as a DNS address. Click 'Save Settings' when finished

Link Speed and LLTD Settings

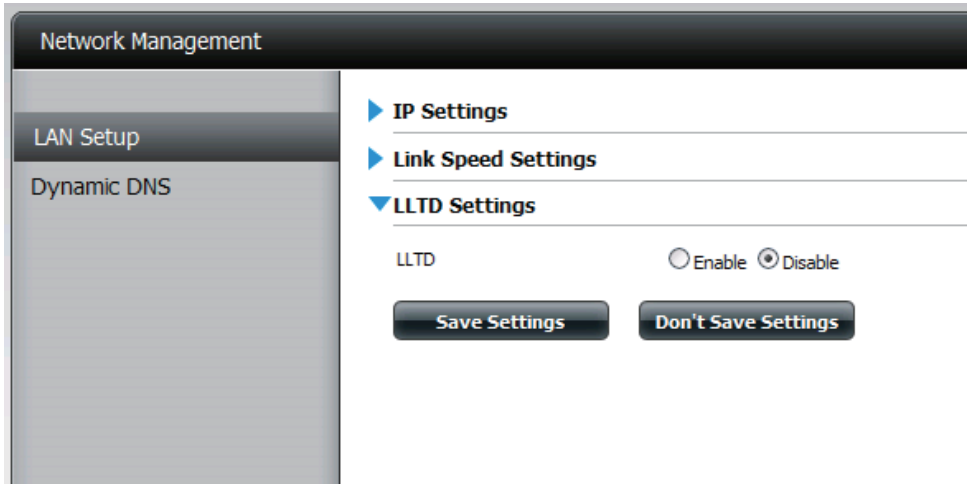
Speed Displays the current ethernet bit rate in Mega bits per second.

Link Speed Select either Auto (Auto-Negotiate), 100 Mbps, or 1000 Mbps by clicking the appropriate radio button. Then click the Save Settings button to save the new settings.



LLTD The ShareCenter supports LLTD (Link Layer Topology Discovery) and is used by the Network Map application that is included in Windows Vista™ and Windows 7™.

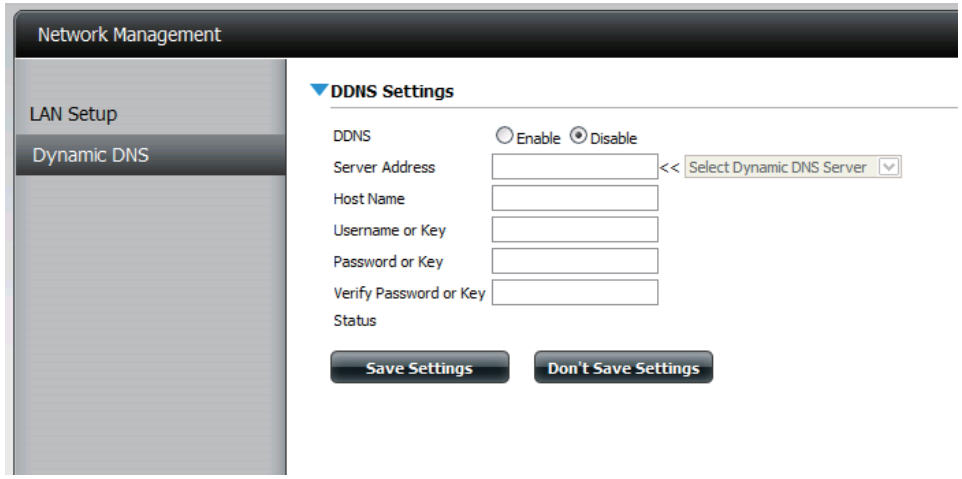
Select to enable or disable LLTD on your ShareCenter .



Dynamic DNS

The DDNS feature allows the user to host a server (Web, FTP, Game Server, etc…) using a domain name that you have purchased (www.whateveryournameis.com) with your dynamically assigned IP address. Most broadband Internet Service Providers assign dynamic (changing) IP addresses. Using a DDNS service provider, your friends can enter your domain name to connect to your server regardless your IP address..

DDNS Settings



DDNS Select Enable or Disable.

Server Address Enter the DDNS server address or select from the drop-down menu.

Host Name Enter your DDNS host name.

Username or Key Enter your DDNS username or key.

Password or Key Enter your DDNS password or key.

Verify Password or Key Re-enter your password or key.

Status Displays your DDNS status.

When the user clicks on the 'Sign up for D-Link's Free DDNS service at www.DLinkDDNS.com' link, the user will be re-directed to the D-Link DDNS page.

Here the user can create or modify a D-Link DDNS account to use in this configuration.

Application Management

FTP Server

The ShareCenter is equipped with a built in FTP Server. The server is easy to configure and allows users access to important data whether they are on the local network or at a remote location. The FTP server can be configured to allow user access to specific directories, and will allow up to 10 users to access the ShareCenter simultaneously.

Max. User Set the maximum amount of users that can connect to the FTP server.

Idle Time Set the amount of time a user can remain idle before being disconnected.

Port Set the FTP port. Default is 21.

Passive Mode In situations where the device is behind a firewall and unable to accept incoming TCP connections, passive mode must be used.

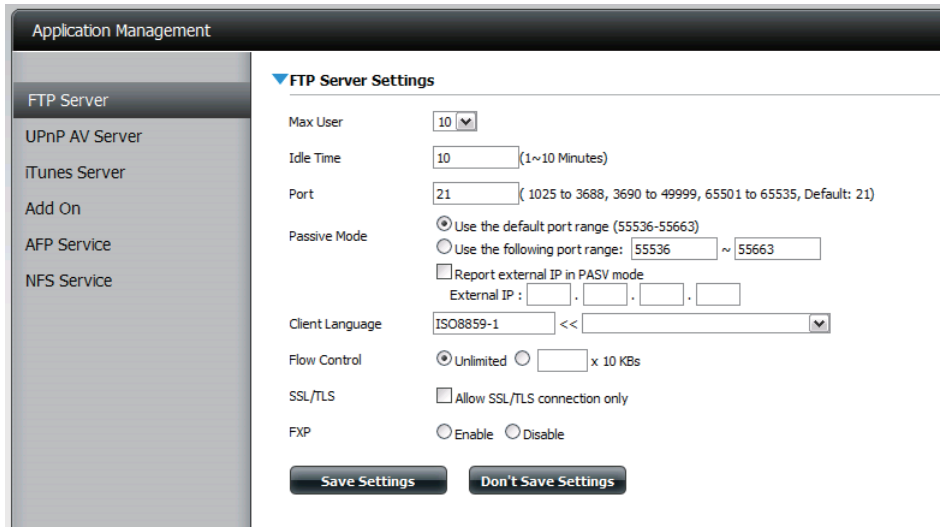
Client Language Most standard FTP clients like Windows FTP, only support Western European code page when transferring files. Support has been added for non standard FTP clients that are capable of supporting these character sets.

Flow Control Allow you to limit the amount of bandwidth available for each user.

SSL/TLS Here the user can enable the SSL/TLS connection only.

FXP Enable or Disable File eXhange Protocol to transfer files from one FTP server to another.

Please Note: In order to use FXP (File Exchange Protocol) for server-to-server data transfer, make sure to change the port from 21 to some other port as listed in the Port section of the Web UI. Also, make sure to open the corresponding port on your router and forward that port from your router to the ShareCenter.



UPnP AV Server

The ShareCenter features a UPnP AV Server. This server provides the ability to stream photos, music and videos to UPnP AV compatible network media players. If the server is enabled, the ShareCenter will be automatically detected by UPnP AV compatible media players on your local network.

Click the 'Refresh All' button to update all the shared files and folder lists.

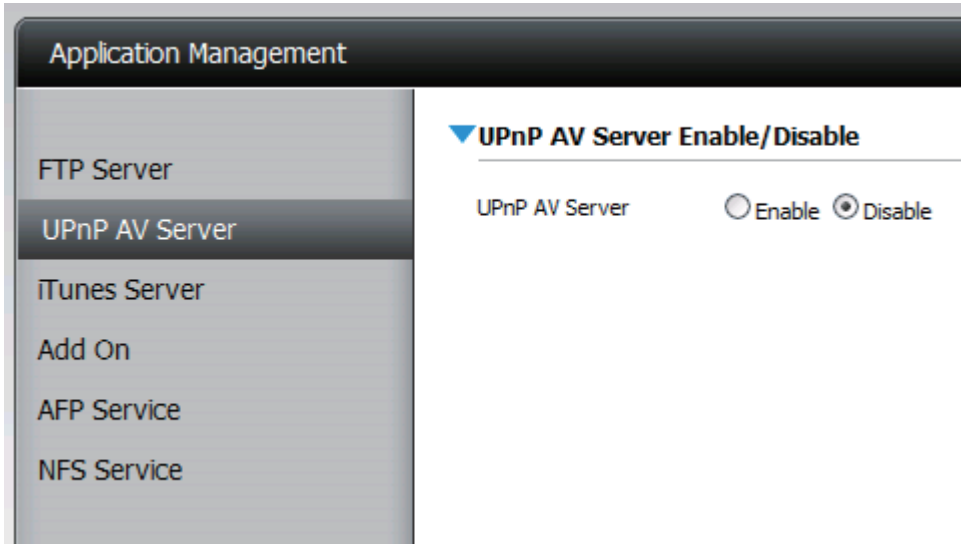
UPnP AV Server Select Enable or Disable to enable or disable the ShareCenter UPnP AV server.

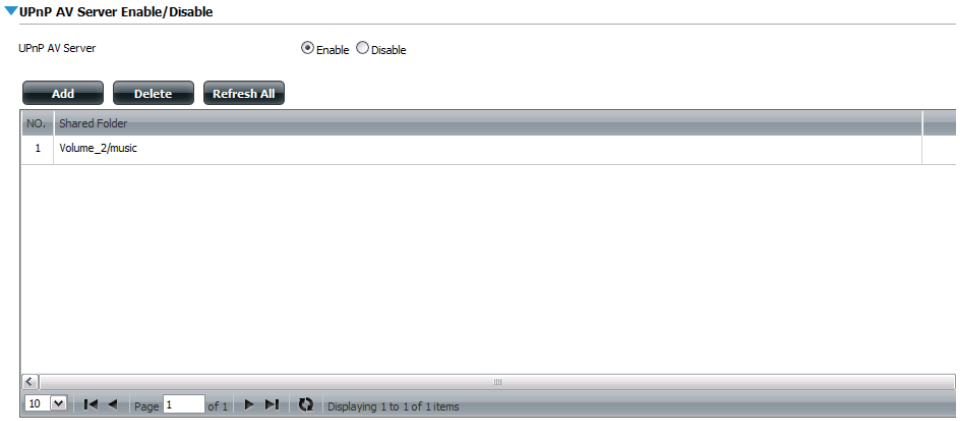
After enabling the UPnP AV Server option, the following window will appear.

In the window the user will be able to add, delete and view existing UPnP AV Server shared folders.

Add, Delete To add a new folder to the shared list, click on the Add button. To delete an existing folder, click on the Delete button. To refresh the list, click on the Refresh button.

Refresh All The Refresh button allows the user to update the files and folders of a selected share..





iTunes Server

The ShareCenter features an iTunes Server. This server provides the ability to share music and videos to computers on the local network running iTunes. If the server is enabled, the ShareCenter will be automatically detected by the iTunes program and the music and videos contained in the specified directory will be available to stream over the network. Click the 'Refresh' button to manually update the shared files and folders.

Click the 'Refresh All' button to update all the shared files and folder lists.

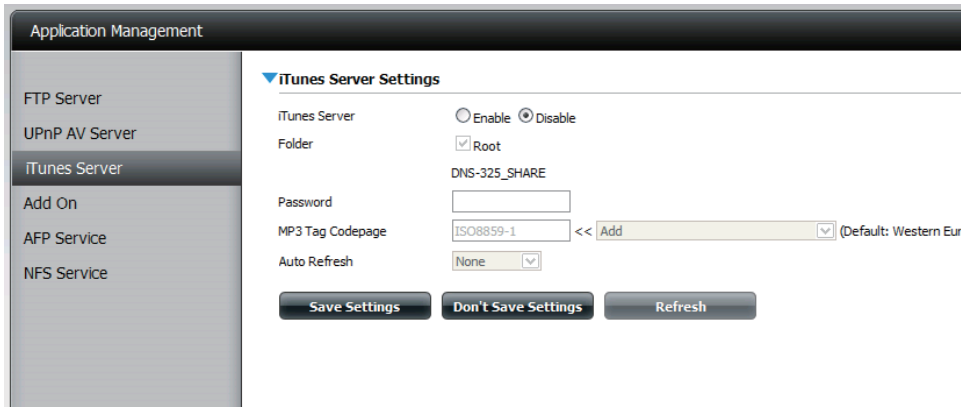
iTunes Server Select to enable or disable the iTunes Server.

Folder Specifies the folder or directory that will be shared by the iTunes server. Select root to share all files on all volumes, or click Browse to select a specific folder.s.

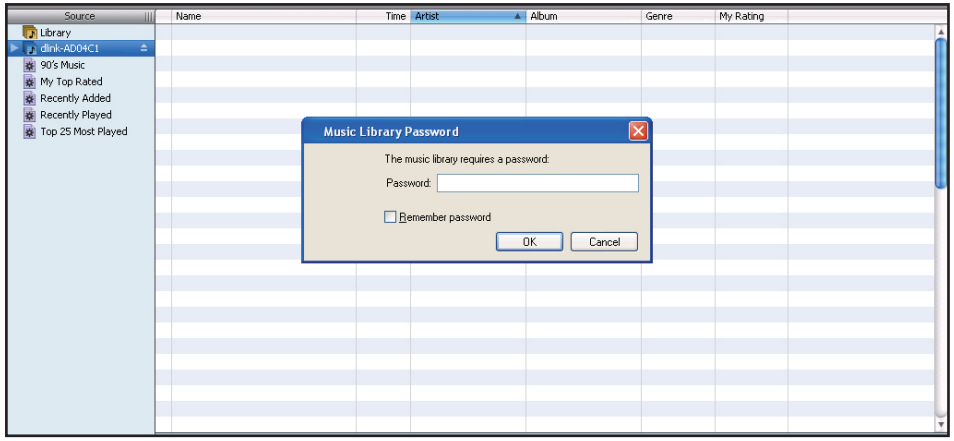
Password Sets password for the iTunes server. (Optional)

MP3 Tag Codepage Here the user can select the MP3 Tag Codepage used by this device. Currently the Codepage is set to Western European.

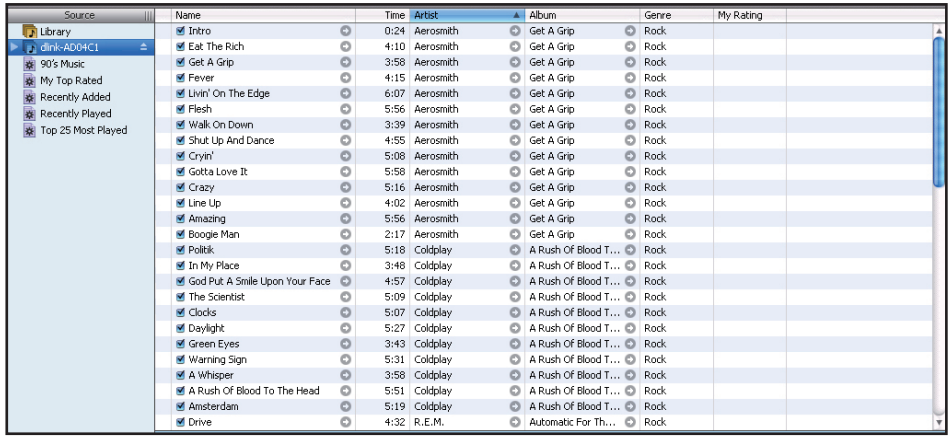
Auto Refresh Here the user can select the Automatically Refresh time



After enabling the iTunes server on the ShareCenter, launch iTunes. In your iTunes utility, select the ShareCenter and enter the iTunes server password if required.



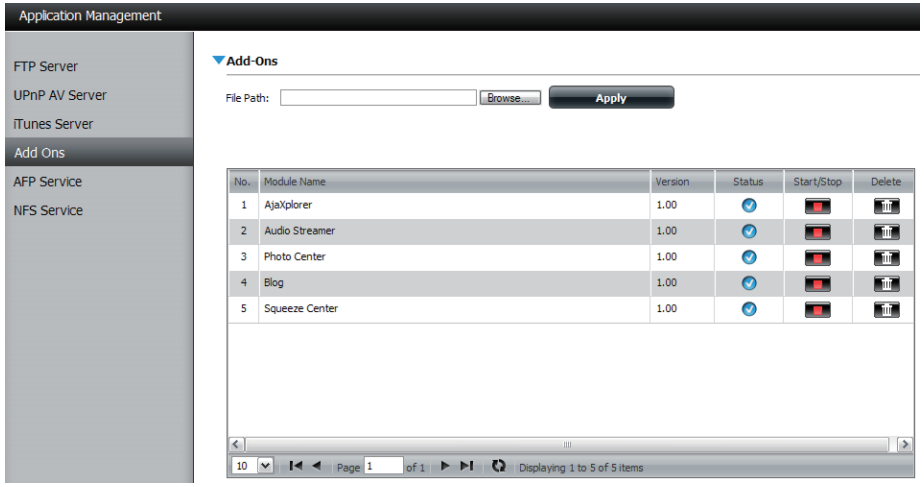
Select the ShareCenter. When prompted, enter in the iTunes server password. Click OK.



Media stored on the ShareCenter will then be available for use in iTunes.

Add-on

The Add-on menu allows multiple application software to add extended functionality to your ShareCenter. The Add-on software is available from the D-Link website in your country and some of them are available from the Installation Wizard.
Click the 'Refresh All' button to update all the shared files and folder lists.



Browse Use the browse button to locate a valid add-on file and populate the file path.

Apply Clicking on apply will install the add-on software onto your ShareCenter. Once installed successfully it will appear in the Add-ons table.

Start/Stop You can enable add-ons in the table by clicking on the Green Triangle button. To disable add-ons click the Red Circle button.

Caution: Your ShareCenter CPU resources will be reduced depending on the number of Add-ons you have enabled. Therefore for optimal performance make sure to disable any add-ons not in use.

Note: To check the complete list of Add-on application software available consult your local D-Link support page .

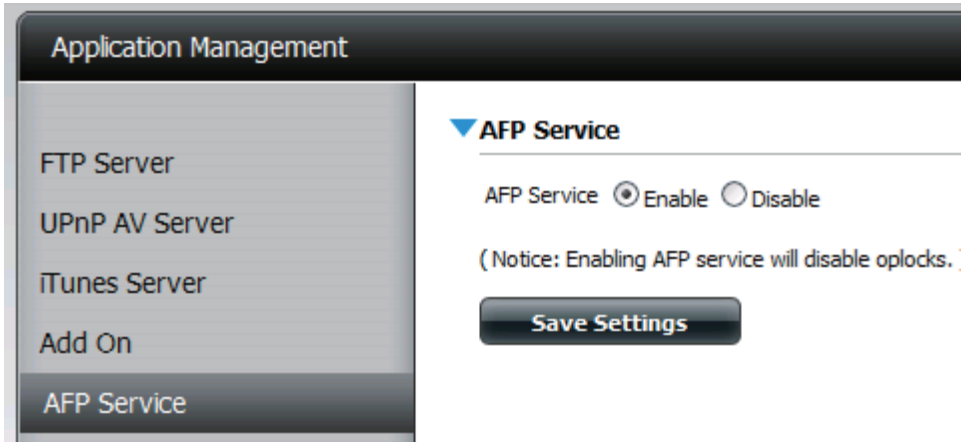
Please Note:
Check D-Link's local website for new Add-ons applications.

AFP Service

The ShareCenter supports Apple Filing Service for connectivity with MAC OS based computers. If you need to use AFP service enable it here otherwise leave it disabled to reduce CPU resource overhead.

AFP Service Select enable to allow MAC OS based systems connect to your ShareCenter using AFP protocol. Select disable to prevent unnecessary CPU resource depletion when AFP is not being used.

Save Settings Click this button to save the enable or disable action of the AFP service.



Notice: Enabling AFP service will disable oplocks.

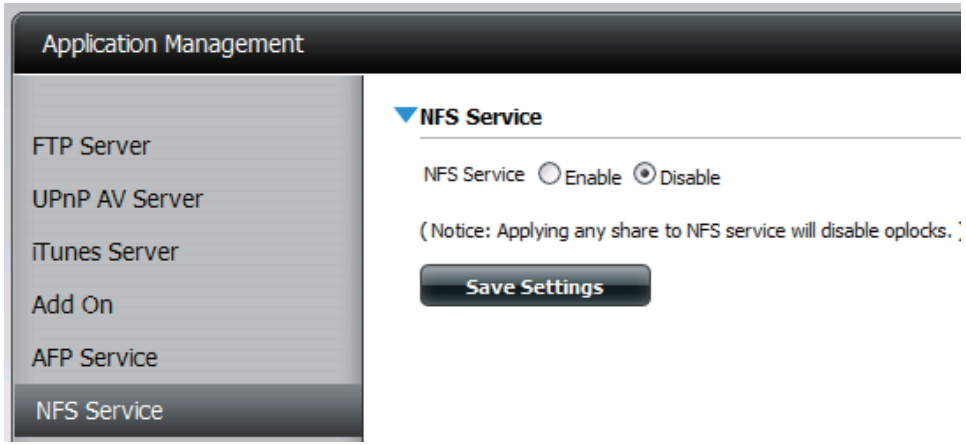
NFS Service

The ShareCenter supports Network File System (NFS) service. To enable this multi-platform file system on your ShareCenter enable it here. Otherwise disable the option to prevent unnecessary CPU overhead.

Click the 'Refresh All' button to update all the shared files and folder lists.

NFS Service Select enable to allow systems that support NFS to connect to your ShareCenter using NFS protocol. Select disable to prevent unnecessary CPU resource depletion when NFS is not being used..

Save Settings Click this button to save the enable or disable action of the NFS service.



Notice: Applying NFS service to any Share will disable oplocks.

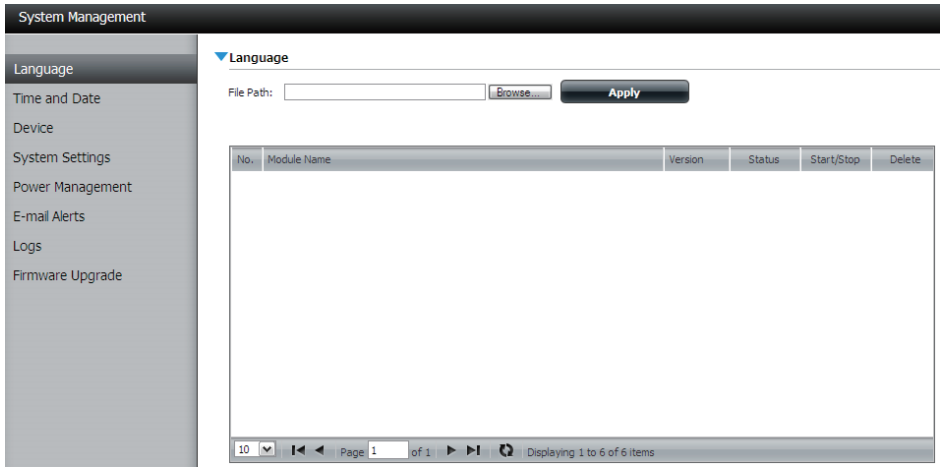
System Management

Language

This menu item allows you to install language packages onto your system. In addition, you can also install language packages to suit your local language needs.

Languages Click on “Browse” to search for the specific language pack you want to install. After selecting the language pack, then click “Apply” to install the language pack.

Language Pack List In the languages window you will see a table where the the loaded language packs will be displayed and can be enabled at will by simply clicking the (>) play button. More than one language pack can be installed, but only one language pack can be used at a time.



Please Note:
Check D-Link’s local website for new Language Packs.

Time and Date

The Time and Date configuration option allows you to configure, update, and maintain the correct time and date on the internal system clock. In this section you can set the time zone that you are in, and set the NTP (Network Time Protocol) Server in order to periodically update your system time from the NTP Server. You can also use the time and date of your compute as the system time.

System Time Settings Shows the current date, time and time zone settings of the ShareCenter.

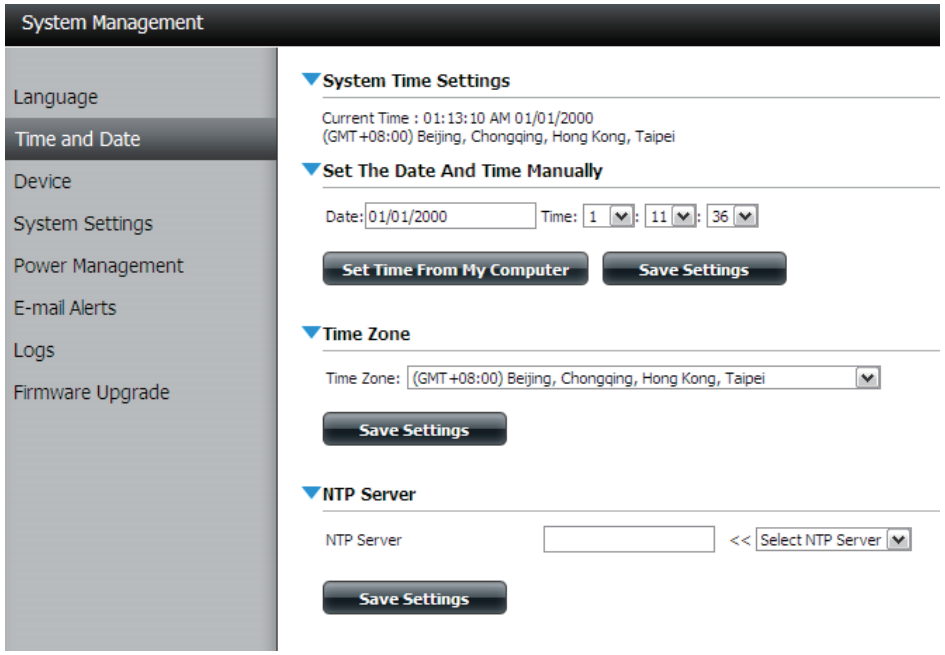
Manually Enter the complete time and date settings manually. Click 'Save Settings' to apply these settings. To synchronize the device clock with your computer, click the 'Set time from my computer' button.

Timezone Select your time zone from the drop-down menu. Click 'Save Settings' after selecting your time zone

NTP Server Network Time Protocol (NTP) synchronizes the device with an Internet time server.

D-Link provides two time server for your convenience. Choose the one closest to your location.

Click 'Save Settings' to accept these changes.



Device

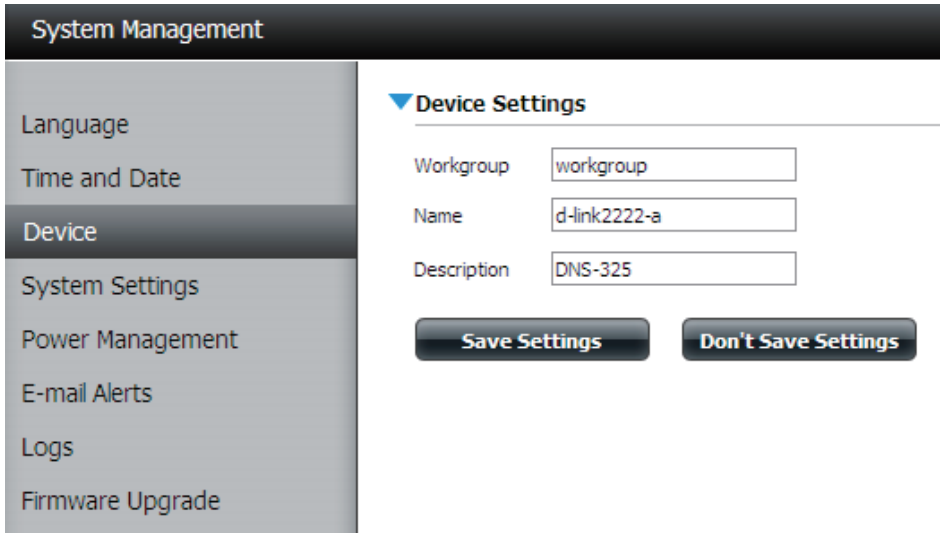
The device settings page allows you to assign a workgroup, name and description to the device. You can access this device by typing the host name in the URL section of your web browser. For example: http://dlink-d10001

Workgroup Enter your Workgroup name here. The workgroup name should be the same as the computers on the network. Devices using the same workgroup will have additional file sharing methods available.

Name Enter your device Name here. This name is what the ShareCenter will appear as on the network. By default, the device name is dlink-xxxxxx, where xxxxxx is the last six digits of the MAC address.

Description Assign a device description to the device.

Click 'Save Settings' to accept these changes.

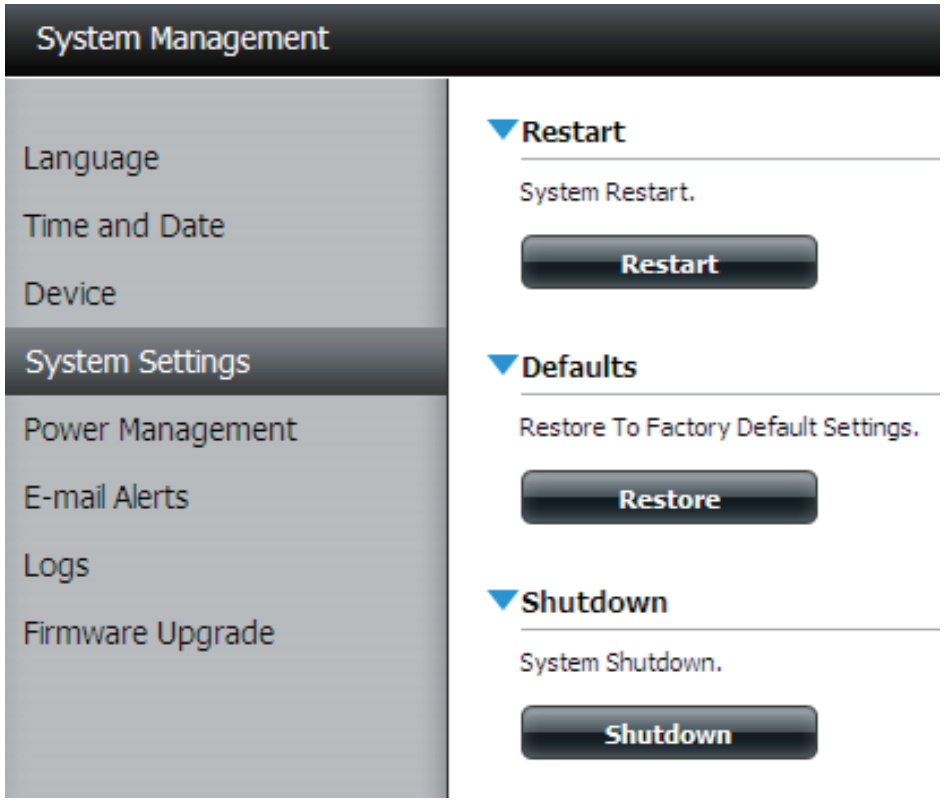


System Settings

Restart Clicking this button caused the ShareCenter to shutdown the entire system to the powered down state and then start all systems to the fully powered up and systems running state.

Default Clicking default restarts the ShareCenter with the original factory default settings. All previous settings that have been configured will be erased.

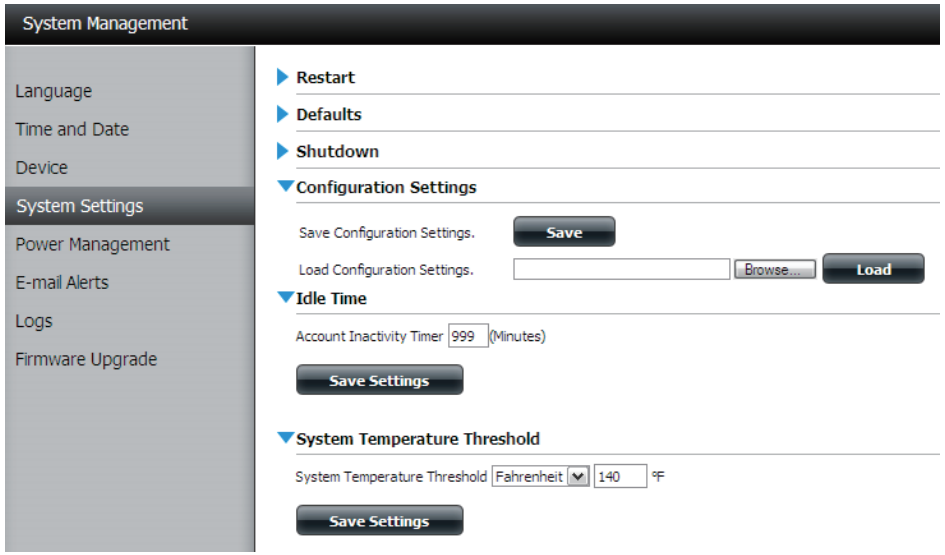
Shutdown Clicking this button turns off the ShareCenter by shutting down all systems and processes gracefully. This helps prevent data loss.



Configuration Click on the 'Save' button to save the current configuration settings to a file on the local computer. If at a later time you need to reload this configuration after a system reset, browse to the file and click Load.

Idle Time Enter the time (in minutes) that the administrator and users will be allowed to remain idle while accessing the web UI..

System Temperature Threshold Here the user can configure the system temperature threshold value. This value can be set in Fahrenheit or Celsius. The device will automatically shutdown when it reaches the temperature set here.



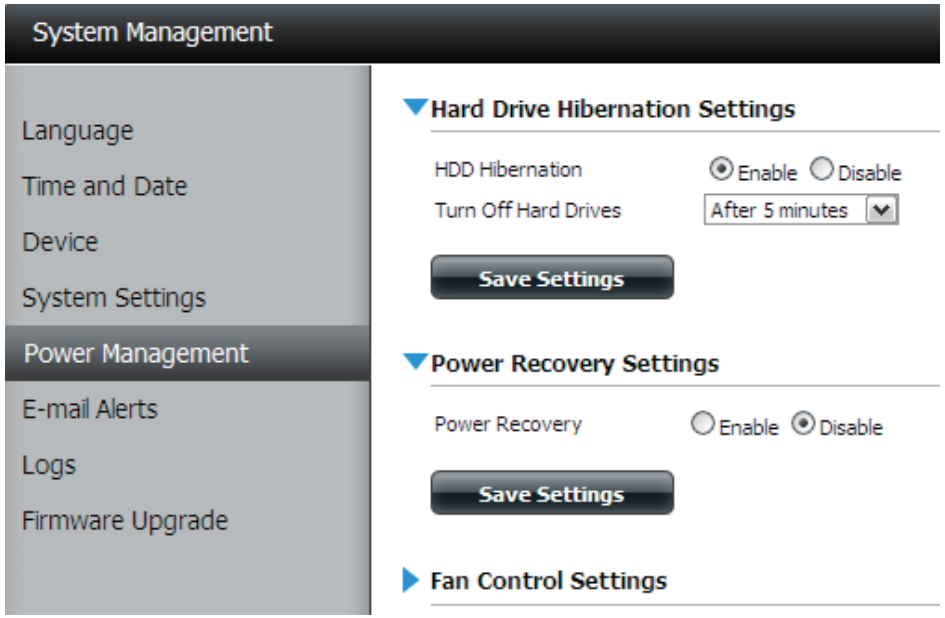
Power Management

The ShareCenter Power Management feature allows you to configure the drives to shut down while power remains constant to the device. The drives will power up again when data is accessed.

HDD Hibernation Enable or Disable HDD Hibernation settings.

Turn Off Hard Drive Set the amount of idle time before the drives will go into hibernation.

Power Recover Enable or disable Power Recovery. The Power Recovery feature will automatically restart your device from a previously unexpected shutdown due to a power failure.



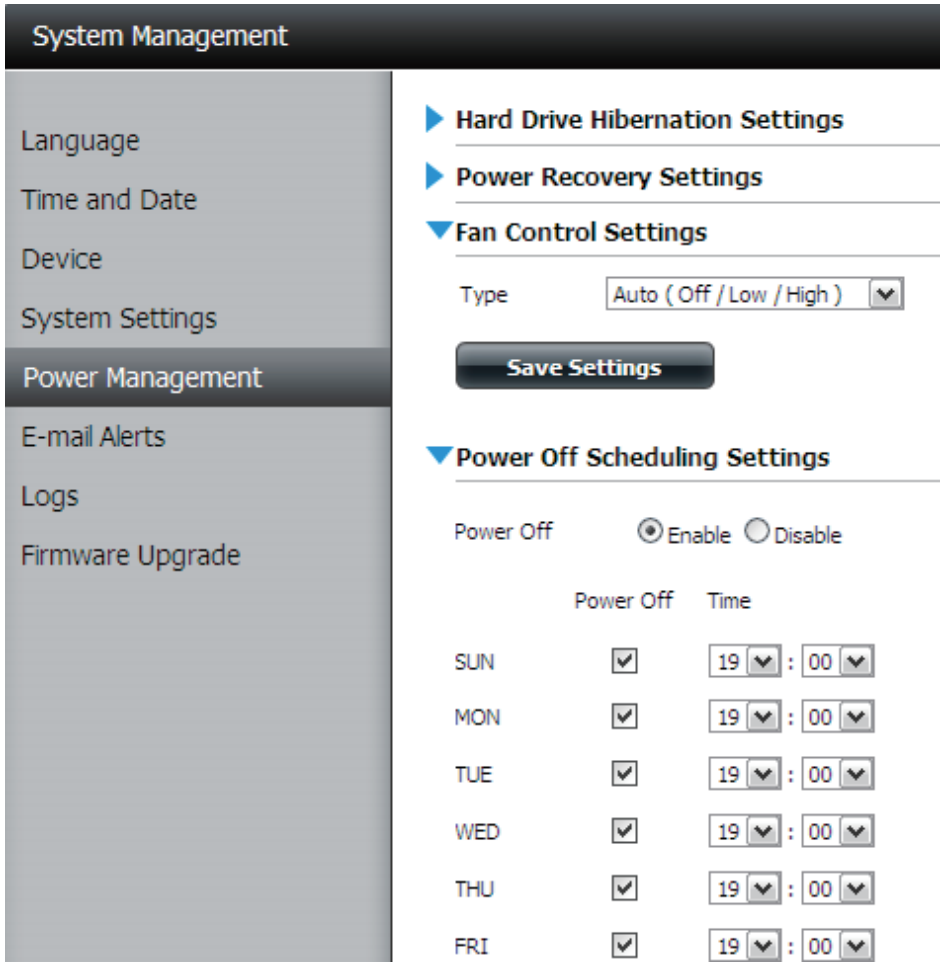
You can also control the speed of the fan using three differet settings and you can power off the ShareCenter at scheduled times for each day of the week.

Fan Control The speed of the fan can be controlled from this section.

If using “Auto” mode, the speed of the fan will change (Off/Low/High) depending on the internal temperature of the enclosure.

Power Off Scheduling Here the user can configure the power off schedule. Click on the enable radio button to turn on this function.

Enable or disable the power off days using the check box (checked equals enabled for the specific day) and configure the time for each day that the power off will occur.



E-mail Alerts - E-mail Settings

With the ShareCenter E-Mail Alerts, you can configure e-mails to be sent that alert you to certain operational conditions and drive status conditions. These alerts can prove helpful with the management and safeguarding of important data.

Login Method Select either Account or Anonymous. Choosing Anonymous does not require a User Name or Password.

Username Enter the appropriate user name for your e-mail account.

Password Enter the appropriate password for your e-mail account.

Port Enter the SMTP port number used here.

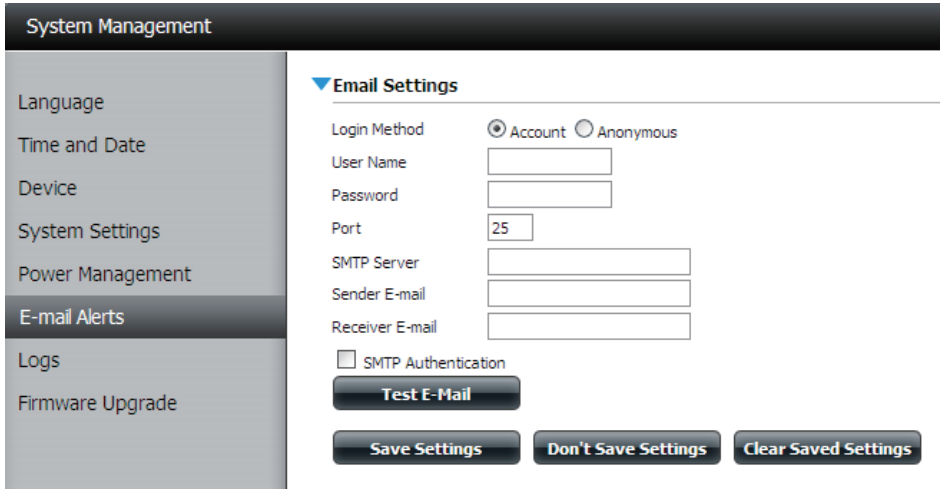
SMTP Server Enter the IP address or domain name of your outgoing mail server. If you are unsure of this value, contact your e-mail provider.

Sender E-mail Enter the “from” e-mail address (e.g. alerts@share.com). This field does not require a valid e-mail address. However, if your e-mail client is filtering spam, make sure you allow this address to be received.

Receiver E-mail Enter the e-mail address you want to send the alerts to. This address must correspond with the SMTP server configured above.

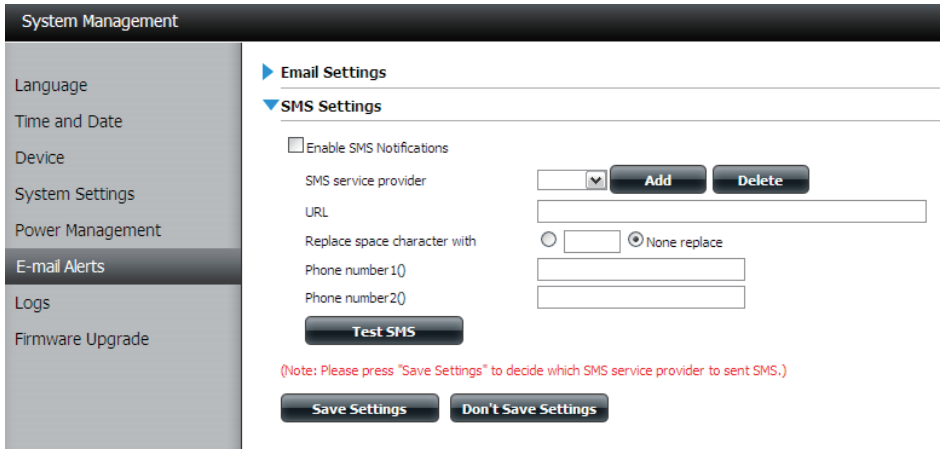
SMTP Authentication Tick this option to use SMTP authentication.

Test E-mail Click the Test E-Mail button to send a test alert and confirm your settings are correct.



E-mail Alerts - SMS Settings

The same alerts of system conditions that can be sent to an e-mail box can also be sent to a mobile or two by SMS text messages. You need to have an agreement with a SMS service gateway that the ShareCenter can then be configured to send the alerts to. The service provider then sends the received alerts to the configured mobiles as text messages.



Enable SMS Notifications Check this box to enable SMS alerts to be sent to your mobile.

SMS Service Provider Select from the drop-down list your SMS service provider you would like to use (these are added with the add button)

Add button Click on the Add button and enter the information into the appropriate fields that your provider has given you to use for the configuration.

Delete button Remove the selected Service Provider from the configuration.

URL The specific service provider URL provided and added in the Add procedure.

Replace space character with If required by your service provider enter a character that will be used for the space.

Phone Number 1 Automatically populated from the Add button function.

Phone Number 2 Enter a second mobile telephone number. Verify that the number input is according to the configuration instructions from your Mobile Service Provider.

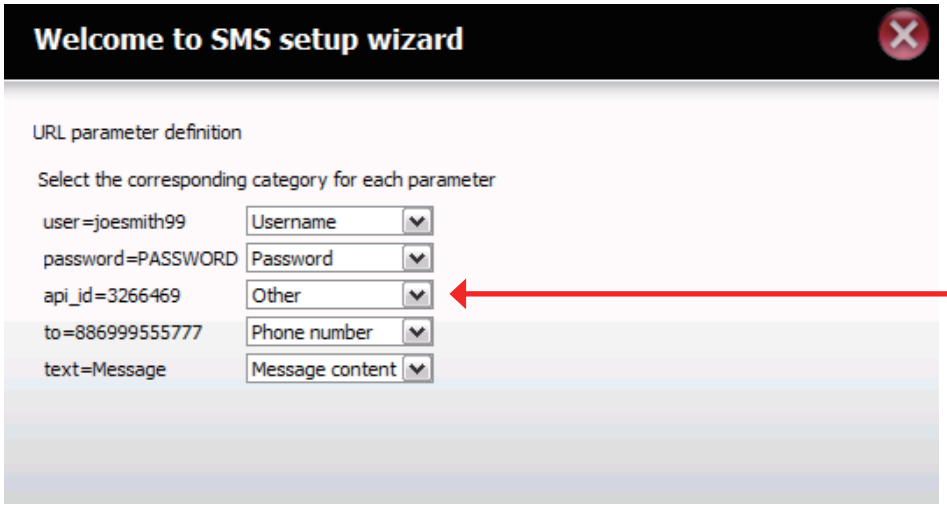
Test SMS button Click this button to send a test message to your Mobile to verify the settings are correct and the API URL is functioning with your provider.

Adding an SMS Service Provider

Once you have an SMS Service provider HTTP API URL provided to you, you can then enter the URL into the Add SMS Service Provider wizard. Enter the URL in the first window with an appropriate Provider Name. In the next window select the appropriate HTTP API URL parameter types definitions from the drop down menus next to the parsed fields of the URL.

Enter your SMS Provider name here.

Enter the HTTP API URL provided to you.

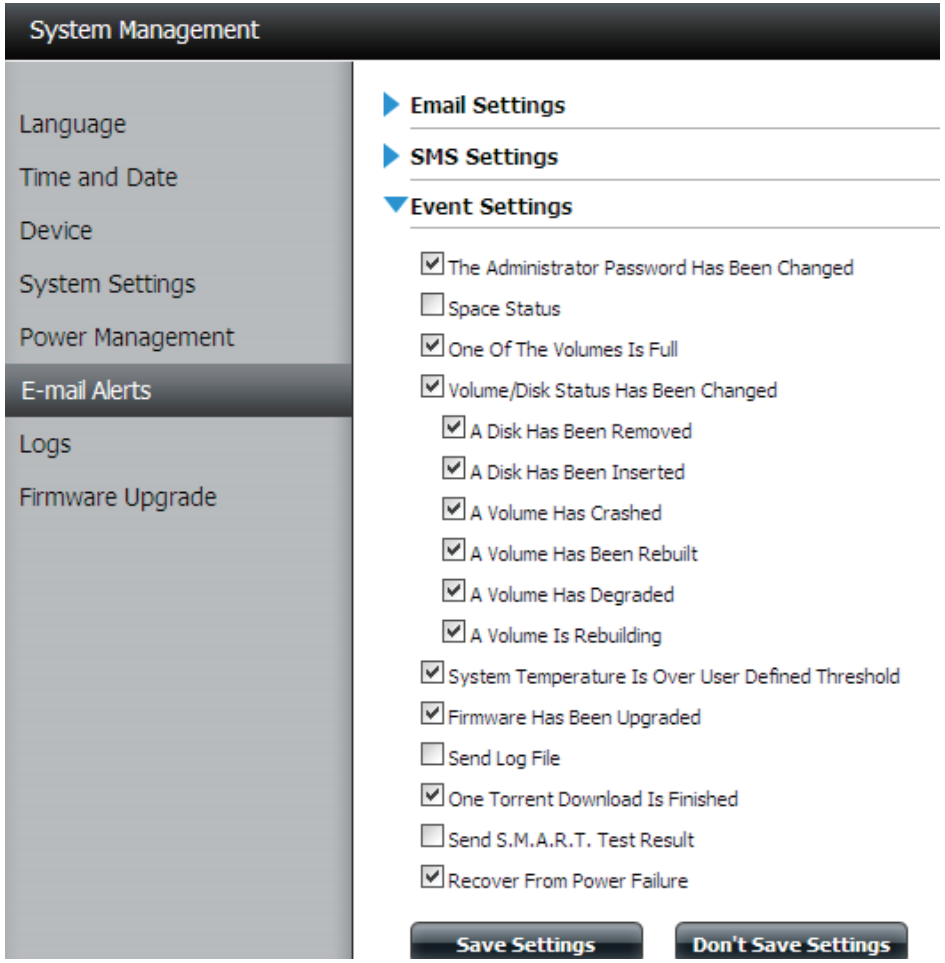


Choosed the appropriate type parameter in the drop-down menu for the parsed parameters of the URL on the left.

E-mail Alerts - Event Settings

You can limit which events are sent as alerts to the E-mail or SMS settings by checking the events here.

Event Settings Select the information you want e-mailed to the above address or sent over SMS messages to the above mobile number. The items checked will be sent when necessary.



Logs

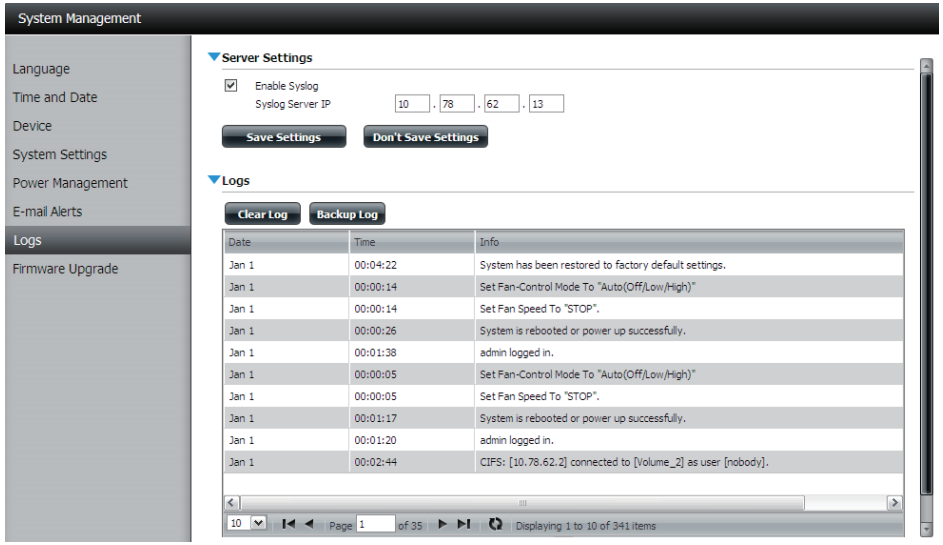
Within the Logs menu item you can setup your ShareCenter to receive Log Events from other ShareCenters or send the ShareCenter's log events to another ShareCenter or SysLog server. You can also view the NAS system logs and the FTP logs here.

Enable Syslog Turns on the Syslog server functionality of your ShareCenter to be able to receive logs from other ShareCenters.

Syslog Server IP Input the IP address here of an external Syslog server that you wish to send the logs of this ShareCenter to.

Clear Log Clicking the Clear Log button will delete all the existing logs.

Backup Log Clicking the Backup Log button will save the existing logs to a text file on your computer.



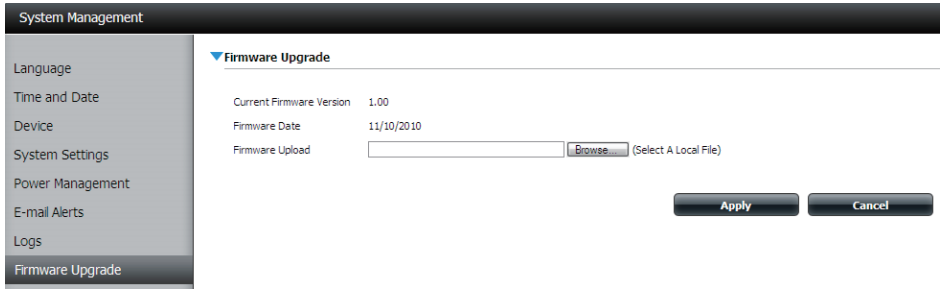
Firmware Upgrade

The Firmware Upgrade Page makes it simple to check for new firmware releases and upload them to the device. This section provides a link to check for new firmware on the D-Link support website. If a new firmware is available, download the file to your local computer.

Current Firmware Version This is the installed firmware that the ShareCenter uses to boot up on and is operating on.

Firnware Date This shows the date of when the firmware, the SharCenter is using, was created.

Firmware Upload When upgrading the firmware, click Browse to select the new firmware file on your local computer. Click Apply to begin the firmware upgrade process.



Status

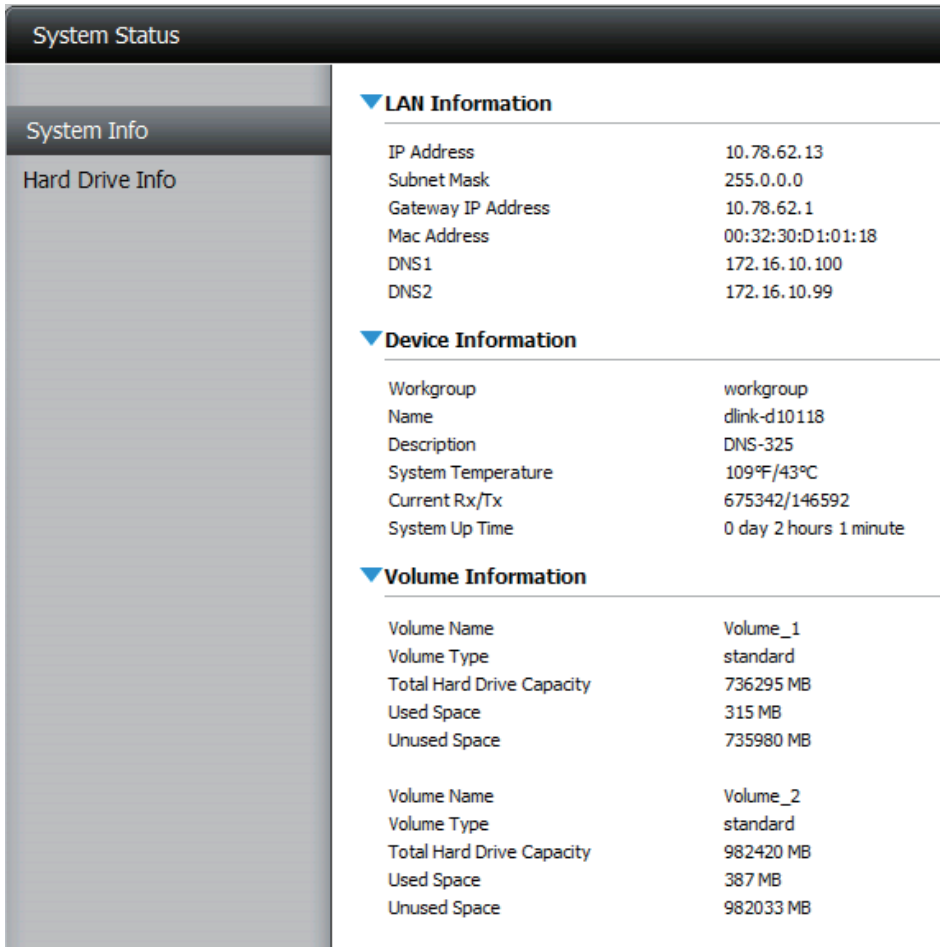
System Info

Here you can view various system information some of which is static and others dynamic.

LAN Information Displays the local network settings of the ShareCenter.

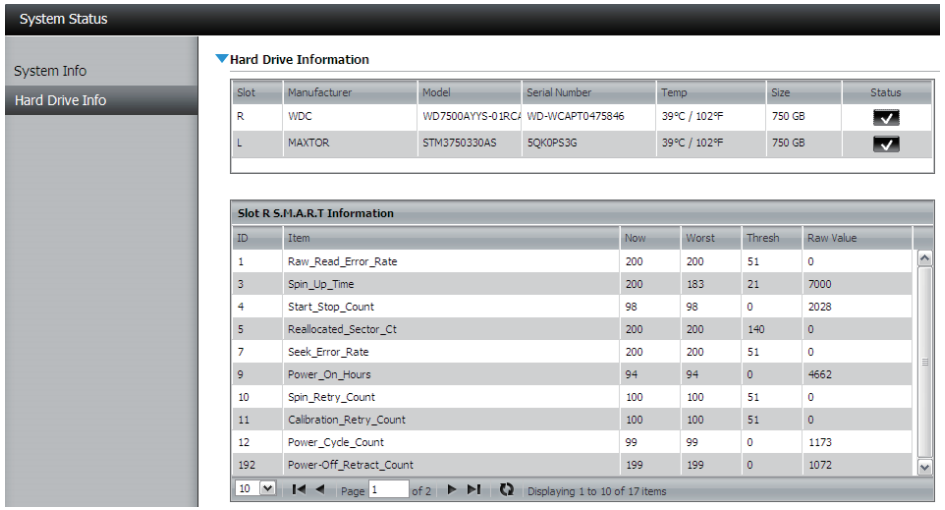
Device Information Displays the workgroup, name, description, current temperature, packet counts, and system uptime of the ShareCenter.

Volume Information Displays the hard drive information, including the disk mode, total size, used and remaining drive space.



Hard Drive Info

This section will display a summary of the hard drive(s) currently installed in the ShareCenter. The summary will include information such as the hard drive manufacturer, model, serial number, temperature, total capacity size, and status. The “Status” of the hard drive will display the health of the hard drive. If your hard drive is healthy, the status will display “Normal”. If your hard drive is not healthy, the status will display “Abnormal”. At any time, if you wish to view the S.M.A.R.T table of the hard drive, you can press the “Normal/Abnormal” button. After pressing the button a table appears with the S.M.A.R.T. data below the table of the Hard Drives installed.



Slot	Manufacturer	Model	Serial Number	Temp	Size	Status
R	WDC	WD7500AYYS-01RCA	WD-WCAPT0475846	39°C / 102°F	750 GB	✓
L	MAXTOR	STM3750330AS	5QK0PS3G	39°C / 102°F	750 GB	✓

ID	Item	Now	Worst	Thresh	Raw Value
1	Raw_Read_Error_Rate	200	200	51	0
3	Spin_Up_Time	200	183	21	7000
4	Start_Stop_Count	98	98	0	2028
5	Reallocated_Sector_Ct	200	200	140	0
7	Seek_Error_Rate	200	200	51	0
9	Power_On_Hours	94	94	0	4662
10	Spin_Retry_Count	100	100	51	0
11	Calibration_Retry_Count	100	100	51	0
12	Power_Cycle_Count	99	99	0	1173
192	Power-Off_Retract_Count	199	199	0	1072

Applications

FTP/HTTP Downloads

Schedule file and folder backups from an FTP server, web server, or local network share. Always test the URL before applying changes. This will help to ensure a successful download.

Category Use the radio buttons to select the type of server that the source files/folders for the Schedule Downloads are located on. Click the HTTP radio button to specify that the source files are located on a web server. Click the FTP radio button to specify that the source files/folders are located on an FTP server.

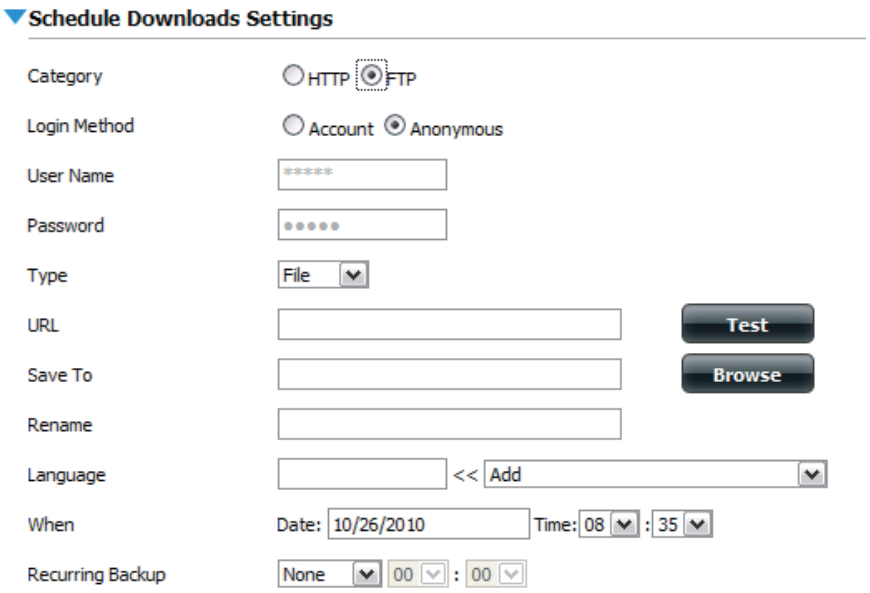
Login Method Enter the login information for the site that contains the files that you want to schedule for downloading. If no password is required, choose 'Anonymous'. If a password is required, choose 'Account' and provide the user name and password.

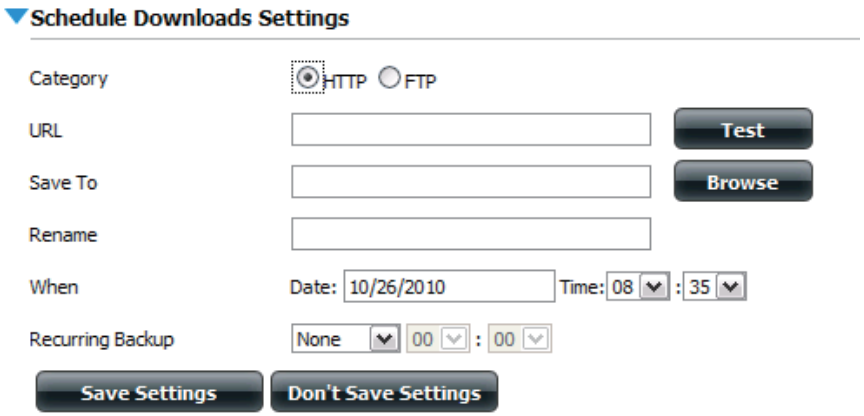
Username Enter the user name here.

Password Enter the password here.

Type Select either 'File' or 'Folder' from the drop-down list depending on whether you wish to download a file or a folder. Choose 'File' if you wish to download a specific file. Choose 'Folder' if you wish to download all the files in a specific folder.

URL Enter the FTP/ HTTP site address for the scheduled download. Click on 'Test' to verify access to the site address and file/folder. If you have chosen 'File' from the above drop down list, you must specify the exact file in the URL path, including the file extension. (e.g. http://example.com/test/testfile.txt).





Save To Enter the specific destination on the internal drives for the downloaded files or folders to be saved to. Click 'Browse' to browse the internal drives..

Rename If you would like to rename a file after it has been downloaded from the specified HTTP/FTP server, enter the name you would like the file to be renamed to in this field.

Language Use the drop-down menu to select the language used in the file or folder that you are trying to download.

When Select the date and time for the download to occur.

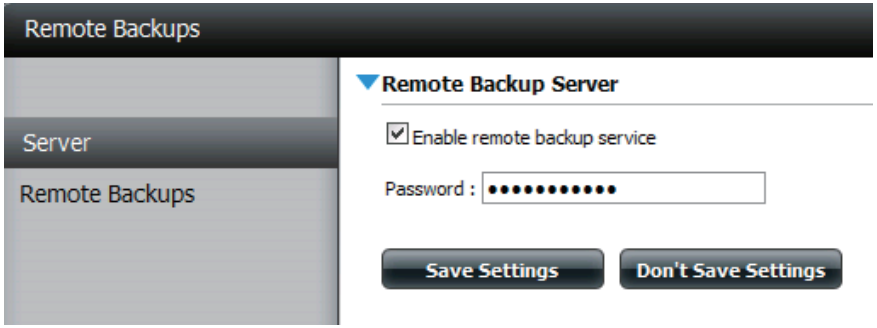
Recurring If you wish to schedule a recurring backup, select the desired interval (daily, weekly, or monthly) and the time you want the backup to start.

Incremental Backup This type of backup, if used, will compare files of identical names on both the source and destination folders. If the source file was modified later than the destination file, the source file will overwrite the existing (old) destination file. If the source file is the same as the destination file, no action will be taken.

Schedule Download List Pending and completed download events will be listed here. The current status for each event is displayed here. In addition, there is an option to delete a download event at any time. Current download statistics, such as % completed and download speed, are displayed for each event. A refresh button is also provided to produce updated listings at any time.

Remote Backups

Remote Backups allows you to back up your ShareCenter to another ShareCenter or Linux Server or vice versa from a remote ShareCenter or Linux Server to your ShareCenter. Use the Create button in the remote backups list to start a wizard where you can configure your ShareCenter's Remote Backup functionality.



Enable remote backup service Check this box to enable the remote backup server functionality to that a remote NAS or Linux.

Note: If you are not using the Remote Backup functionality of your ShareCenter leave this box unchecked so that your ShareCenter's performance will not be affected by the additional overhead used by this process.

Password Input a password here that the remote client will use.

Remote Backups list This is the list of remote backup jobs built by pressing the Create button above the list to configure each job.

Create Click the Create button to build a new remote backup job on your ShareCenter.

Modify Click this button to make changes to your existing Remote Backup jobs in the Remote Backup list. You must select the remote backup job first and then click the modify button.

Delete To remove a Remote Backup job select the job in the list and then click the Delete button.

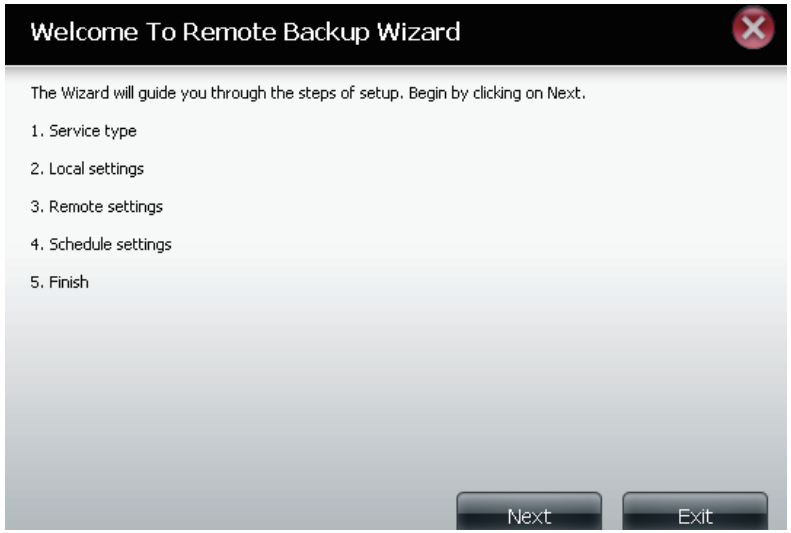
Remote Backups - Create wizard

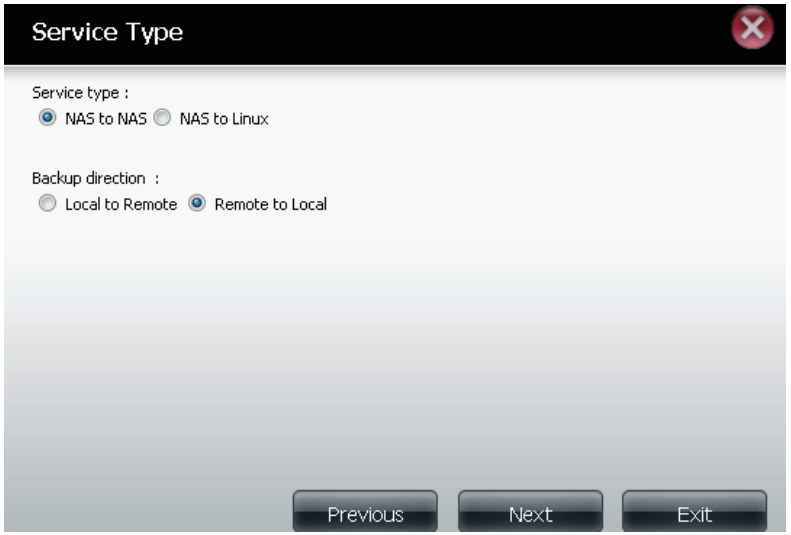
When you click the Create Button above the Remote Backup list this wizard will start allowing you to configure a new Remote Backup job.

Wecome Displays the steps of the wizard.

Step 1. Service Type **NAS to NAS**: backup from the local NAS to a remote NAS or vice versa.
NAS to Linux back from the local NAS to a Linux file system or vice versa

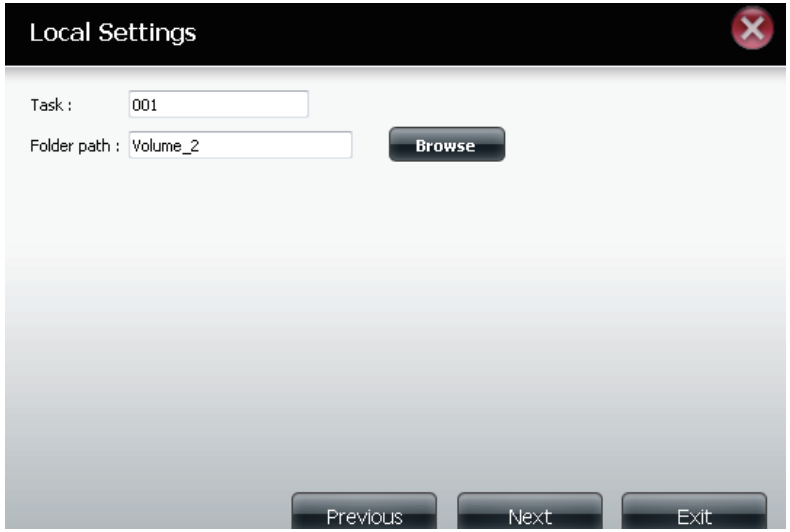
Local to Remote: sets the backup source as the local NAS and the target destination for the backup files as the remote NAS or Linux file system.
Remote To Local: sets the backup source as the remote NAS or Linux file system and the target destination for the backup files as the local NAS.





Step 2. Local Settings

Task (Name): the name used to refer to the backup job which will be listed later in the Remote Backup list.
Folder Path: select a local network share folder or file as the target or source for the backup job.



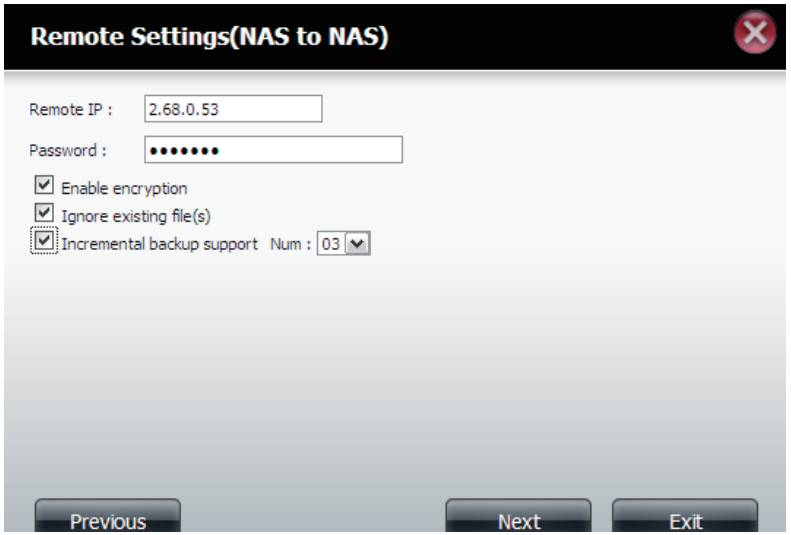
Step 3. Remote Settings

Remote IP: The backup process uses Rsync protocol and needs to know the IP address of the destination source or target device for the backup. Input the IP of the remote NAS or Linux file system.

Enable Encryption: Checking this box will enable SSH encryption of the files that are transferred (backed up) over the network between the local and remote devices.

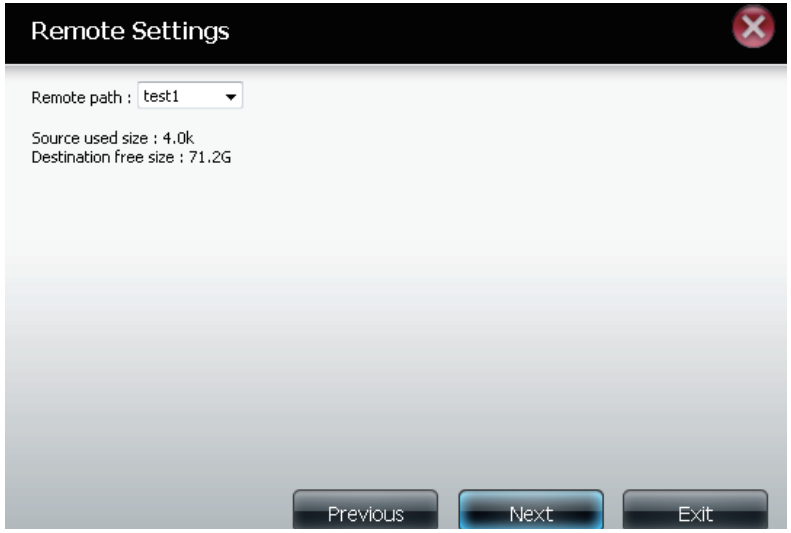
Ignore existing file(s): Checking this box prevents the backup process from writing over any files in the target file system that are not part of the backup files or folders. Therefore any existing files in the target system are preserved.

Incremental backup support Num (#): Checking this box provides multiple backup-capability at scheduled times. The first backup The first backup in an incremental series captures all the files for backup. Subsequent backups are incremental in that only the files and the folders that have changed in the backup source since the last incremental backup will need to be backed up. Each incremental backup builds a complete snapshot of the backup source however only the initial backup contains all the original files and folders. The subsequent backups in the incremental series contain new files and folders plus the links to the first incremental backup.



Step 4. Remote Settings

Remote Path: Using the browse button, select the file system (folder) path to the remote target or source system for backup.

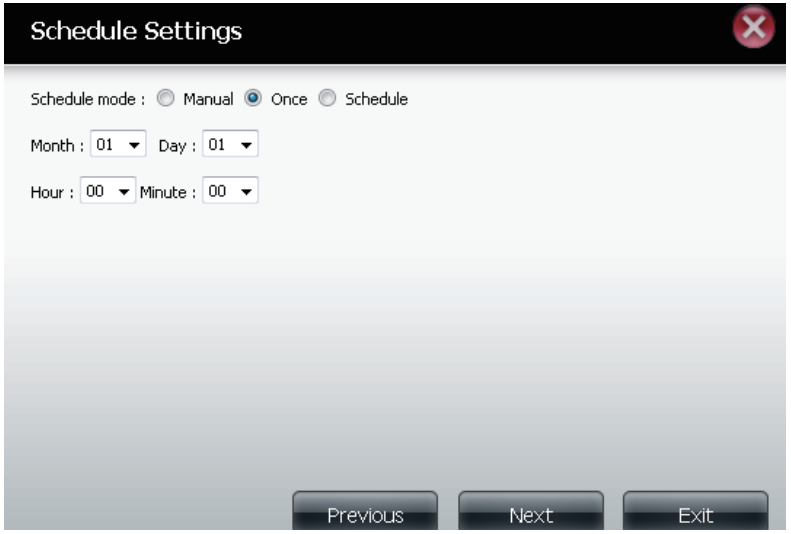


Step 5 Schedule Settings

Scheduled Mode:
Manual: Check either yes or no selection below to start the backup (yes) immediately on completion of the wizard or (no) manually start the backup from the Remote Backup list.

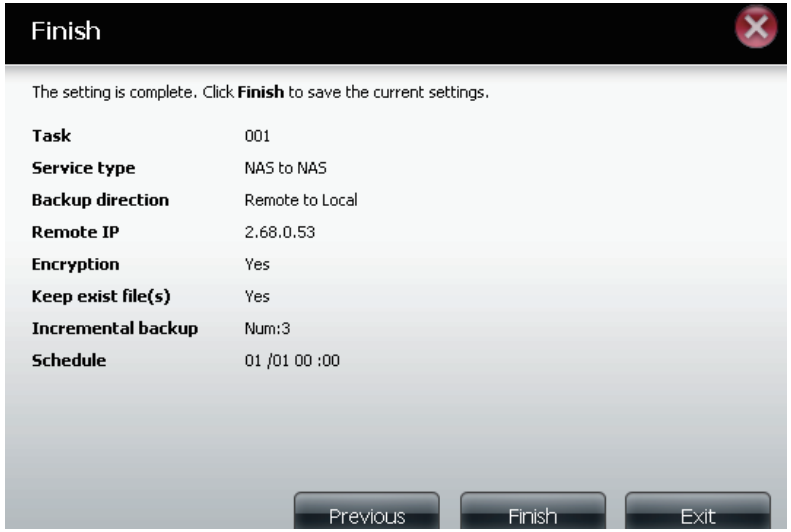
Once - select this option to run the Remote Backup once at a specific date and time set here.

Scheduled: select this option to set the backup to occur daily, weeklymonthly per a specific schedule.



Step 6. Finished

Click on the Finish button if you are satisfied with all the settings of the Backup job created. Otherwise click on the Previous button to go back and make changes. Alternatively click on Exit to end the configuration without adding a Remote Backup job.



Remote Backups list

Task: The name of the Remote Backup job.
Schedule: When the Remote Backup job will execute.
Status: Current status which can be

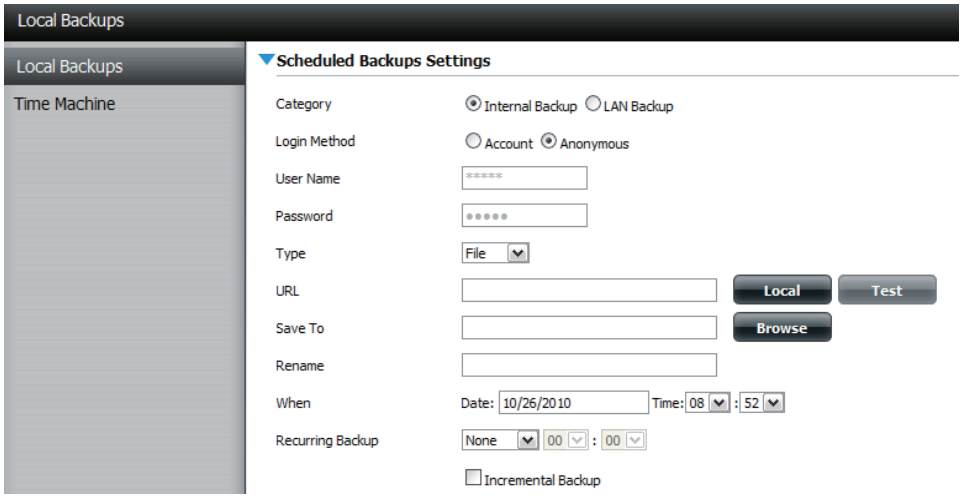
- Ready the remote backup job is ready to be executed.
- Finished the remote backup job has executed completely and successfully.
- Failed the Remote backup job was unsuccessful during execution.

Enable/Disable: If the button shows a red circle the remote backup job is enabled. Clicking the red button will disable the remote backup job ad the button will change to a green right pointing triangle. Clicking the green triangle will enable the job again.
Backup now : Clicking this button will execute the backup job immediately as long as the job is enabled.

Recovery: Clicking this button will write the backup files and folders back into the source file system from the backup target system (reverse the file direction).
Navigation buttons: Use these buttons to move up and down in the list when there are multiple jobs configured.
Refresh Button: Click this button during a backup or recovery process to monitor the progress by updating the progress completed bar.

Local Backups

Schedule local file and folder backups from the local network share of the device or from the local computer. Always test the URL before applying changes. This will help to ensure a successful download.



Category Use the radio buttons to select the backup method. If your NAS device has two volumes you can click the Internal Backup radio button to backup the data from the first volume to the second volume and vice-versa. The Internal Backup feature also allows you to backup an existing folder on a volume to another folder on the same volume but nested folders in the same volume are not allowed.
If you want to backup the data from your PC or another NAS device to your NAS device, click the LAN Backup radio button.

Login Method Enter the login information for the site that contains the files that you want to schedule downloads from. If no password is required choose 'Anonymous'. If a password is required choose 'Account' and provide the user name and password. This option is only available for LAN Backups.

Username Enter the user name used here..

Password Enter the password used here.

Type Select File or Folder, depending on what you want to download or backup.

URL Enter the URL of the site or server you are initiating a transfer from. E.g. ftp://123.456.789/Test or ftp://123.456.789/test.txt

Save To Enter a valid destination drive on the ShareCenter, or click Browse to select the destination.

Rename Enter the renamed file name here.

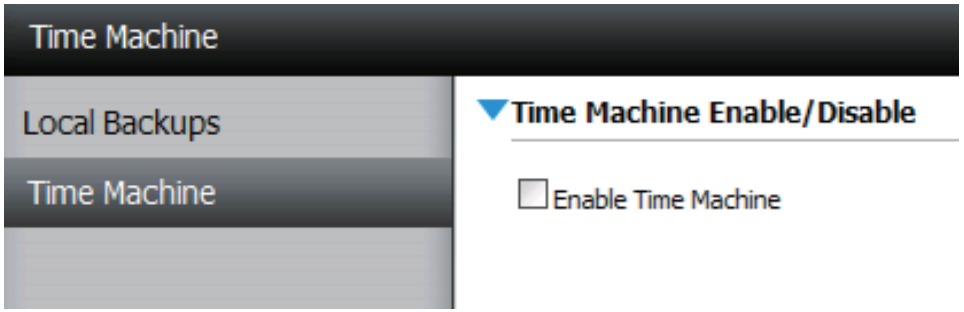
When Enter the date and time you want the scheduled backup or download to initiate.

Recurring Backup Designate the interval and time you want the backup or download to run unattended.

Incremental Backup By default all local backups and file/folder downloads are in Overwrite mode, meaning that identical files in the destination folder will be overwritten by the source files. Checking Incremental Backup will have the ShareCenter compare identical file names at the source and destination. Files will only be overwritten if the source file is more recent.

Local Backups - Time Machine

This section allows the user to configure the ShareCenter so that it becomes a backup destination in the Mac OS X Time Machine. In order to use this function, the AFP service is required. The AFP service will start automatically as soon as this function is enabled.



Enable Time Machine Click this to enable the Time Machine function to work with a MAC OS X Time Machine. The Time Machine Settings list will appear when this checkbox is ticked.

Time Machine Settings list A list of destination folders on the Network Shares associated with the Time Machine backup.

New Adds a NAS folder as a Time Machine destination.

Delete Deletes a NAS folder setup as a Time Machine destination.

Remove all Network Shares Delete all the NAS folders in the list configured as Time Machine Destinations.

P2P Downloads - Settings

Within this menu you can configure the P2P download management settings

P2P Here the user can enable or disable the peer to peer function.

Disable In the block provided the user can configure the running schedule for P2P downloads. Simply select the 'Start' and 'Stop' block for the appropriate Date and Time.

Auto Download Here the user can enable or disable the automatic download option.

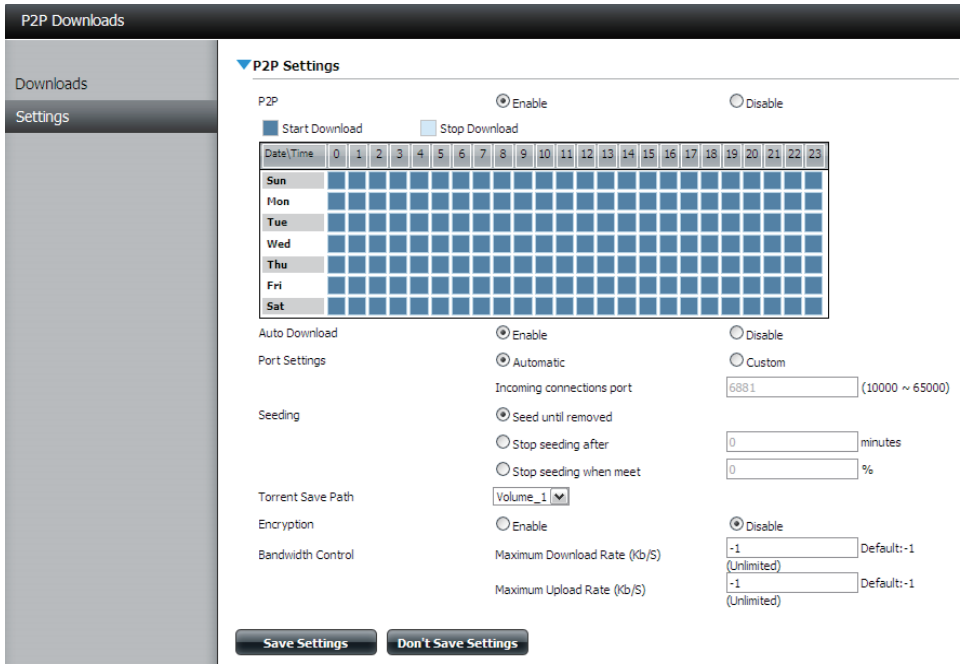
Port Settings Here the user can choose to allow the device to automatically choose an incoming connections port or you can configure the incoming connections port manually.

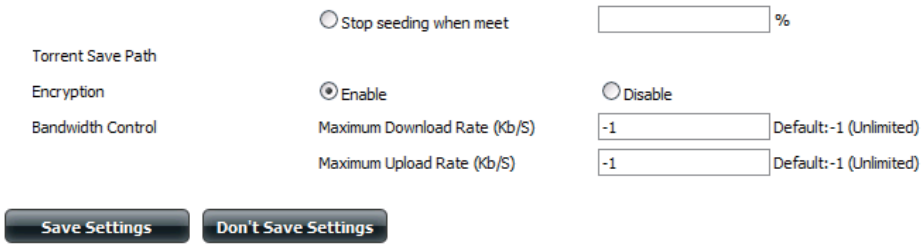
Seeding Here the user can configure some seeding options.

Torremt Save Path Here the torrent path will be displayed.

Encryption Here the user can choose to enable or disable the encryption used.

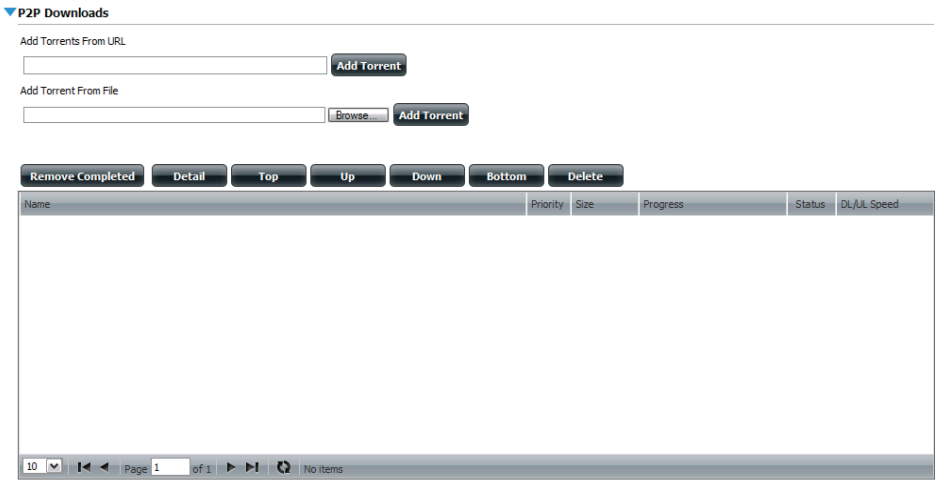
Bandwidth Control Here the user can choose to allow the device to automatically choose the bandwidth control speed, or you can manually configure the maximum download rate and maximum upload rate. Enter the value '-1' to set the respective field to 'unlimited'.





P2P Downloads - Downloads

Here the user can configure the Peer-to-Peer download manager settings.



Add Torrent from URL In the field provided you can copy and paste a link to a torrent file hosted on the internet. The BitTorrent download manager will add the torrent file to the download manager and being downloading your files.

Add Torrent from File Here you can browse for a torrent file you have downloaded onto your PC. This allows you to load the torrent file from your local PC.

P2P Downloads list In this windows all the running tasks will be displayed.

Remove Completed The user can click on the 'Remove Completed' button to remove finished downloads. Sometimes identifying finished jobs, when multiple downloads exist, can be difficult. This option make is easy for the user to remove finished downloads from the list with a single click.

Detail The 'Details' button allows the user to view the files that are being downloaded for each torrent.

Top,Up, Down,Bottom The 'Top', 'Up', 'Down' and 'Bottom' buttons allows the user to move the selected P2P download in the task list. The downloads at the top of the list carries more priority than the one list below them.

Delete The 'Delete' button allows the user to remove a selected download. This will remove not only the torrent file, but also the partially downloaded files too.

Start / Stop The start and stop button allows the user to start and stop selected P2P downloads in the task list.

Torrent Scheduling The 'Torrent Scheduling' button allows the user to configure a scheduling rule for the select P2P downloading task.

Navigation At the bottom of the P2P Task window there are a couple of navigation controls. When multiple tasks exist, the user can select how many tasks will be displayed by using the drop-down menu. The user can also navigate to next pages when more than one page exist.

Refresh The refresh button allows the user to refresh the P2P task list to display the most updated statistics.

Web File Server

Whenever you cannot mount the network shares of your NAS, use the Web File Server to access the files using a browser over the internet. If the network, that your ShareCenter is connected to, is using NAT, you will need to forward HTTP port 80 across your router for access over the internet.

Up Left click the Up button to go up (or back) one directory in the folder structure of the network share selected.

Upload Select a destination folder in a network share by navigating in the folder view on the left. Then left click the Upload button to open a dialogue window where you can browse to select a file on your computer for uploading to the selected destination folder.

Download Select a file for download to your computer by navigating in the folder view on the left. When you have found the file left click on it in the folder and file list in the center of the browser so that it is highlighted in red. Then click on the Download button and save or open the file as needed.

Refresh Left click the Refresh button to update the folder and file view of the Web File Server.

Download Downloads the selected file to your computer.

Copy Clicking the copy selection copies the file to the clipboard and opens a wizard to allow you to select the folder to paste the copy of the file to. Once you have chosen the folder clicking OK will paste the file in that folder.

Move Moves the file to a new folder on disk.

Delete Removes the selected file from disk.

Rename Allows you to configure a new file name for the selected file.

Properties Displays the file properties such as ownership, access rights and modify time..

My Favorites

The My Favorites tab allows you to add any icon you routinely access from the Applications or Management Tab in one convenient location for easy and quick access. You can add icons to the My Favorites tab using two different methods:

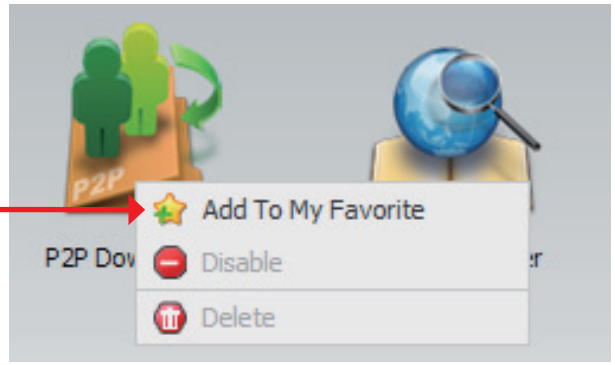
Re-arranging the My Favorites View

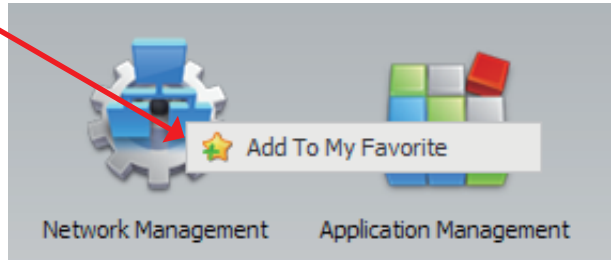
Within the My Favorites tab you can arrange the layout of the icon order according to your needs. To move the position of an icon, left click and drag the icon to a new position anywhere in the current icon locations. Once you have dragged the icon to the new location release the mouse button and the other icons will automatically reorder themselves.

Add an Icon to My Favorites

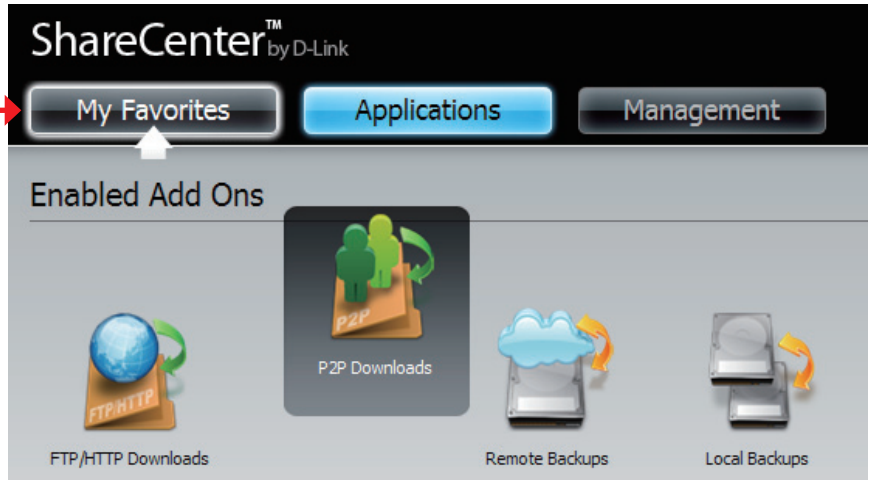
There are two methods to add an Icon alias to My Favorites either right click the icon an select: Add to My Favorites as per item 1 below or use the Drag and Drop method as per item 2. below.

1. Right click on an icon in the applications or management tab and click on the "Add to My Favorite" menu item from the command list that appears.





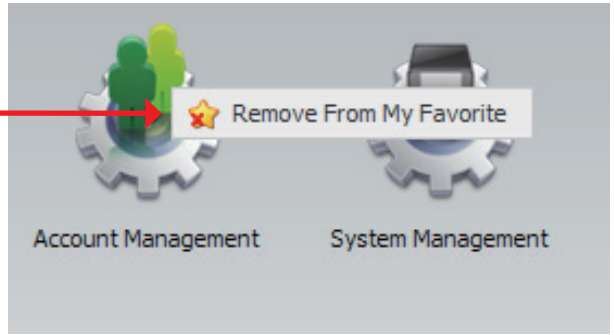
2. While holding the left button down over the icon drag it over the My Favorites tab (drag and drop method). You will see an white arrow pointing to the My Favorites tab which is highlighted when you start to drag the icon



Remove an Icon from My Favorites

To remove an Icon alias from the My Favorites tab simply right click on it and select Remove From My Favorite in the context selection that appears.

Right click an Icon alias in the My Favorites tab and select the Remove From My Favorite option. The Icon alias should disappear from the My Favorites tab view.



Knowledge Base

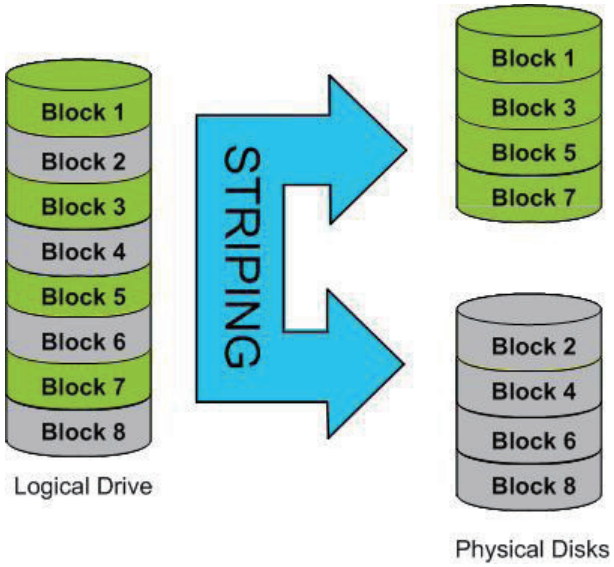
What is RAID?

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, and Standard.

RAID 0

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

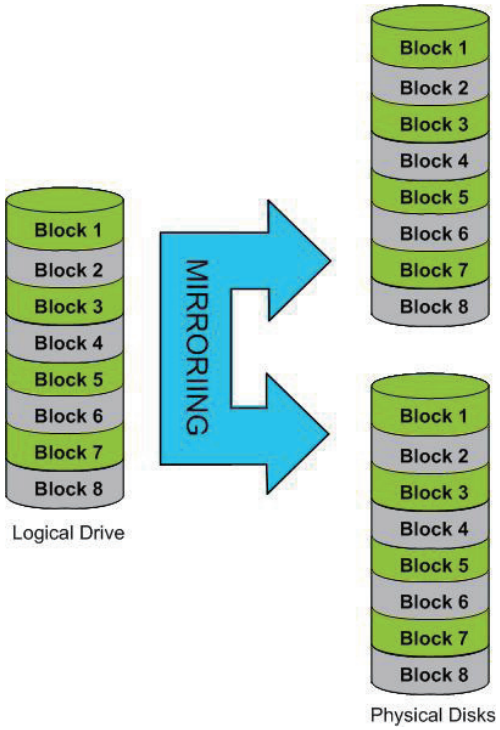
Although performance is improved, the lack of fault tolerance means that if one drive fails, all data in the array will be lost.



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 it's smallest member disk.

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

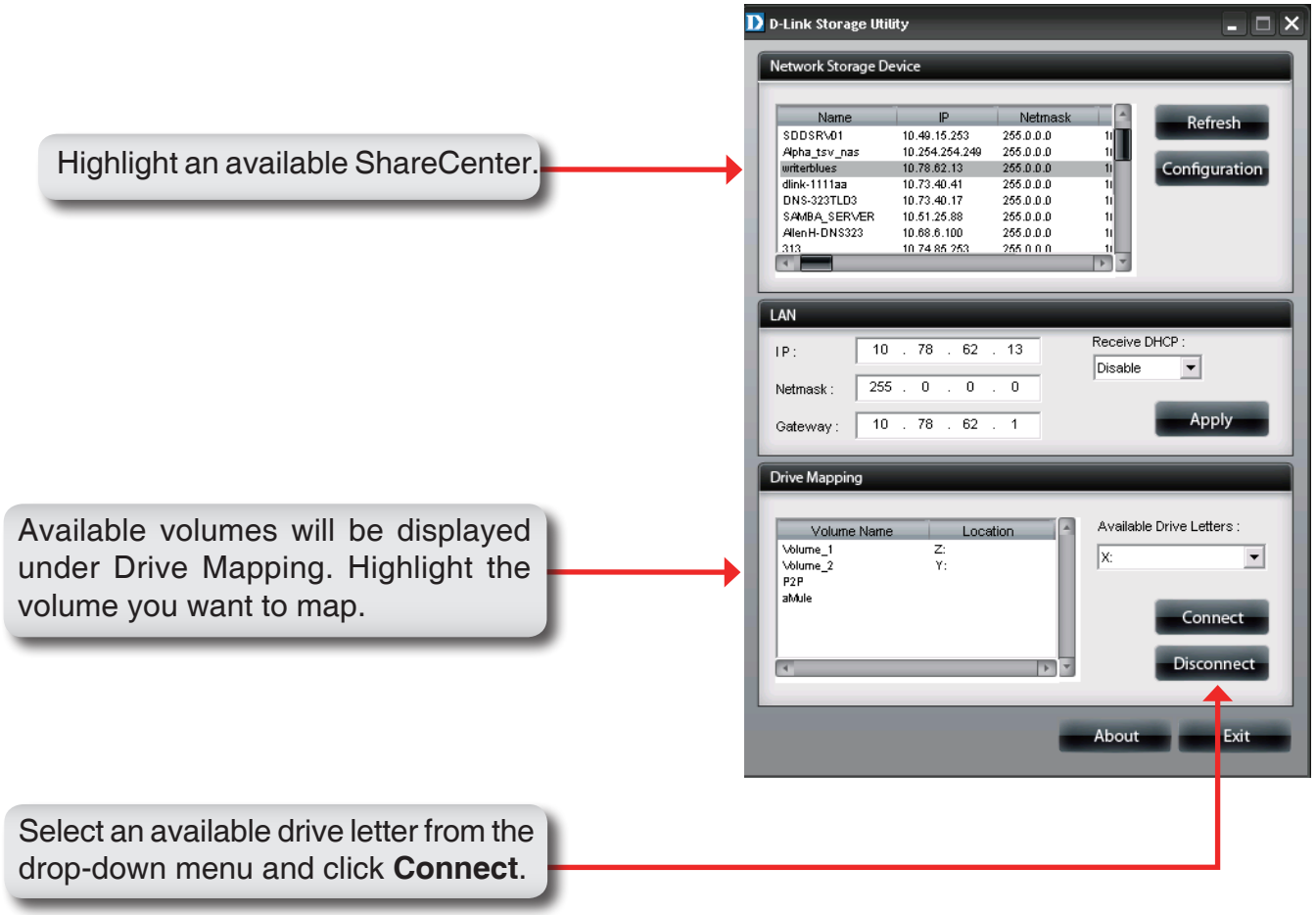


Mapping a Drive

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

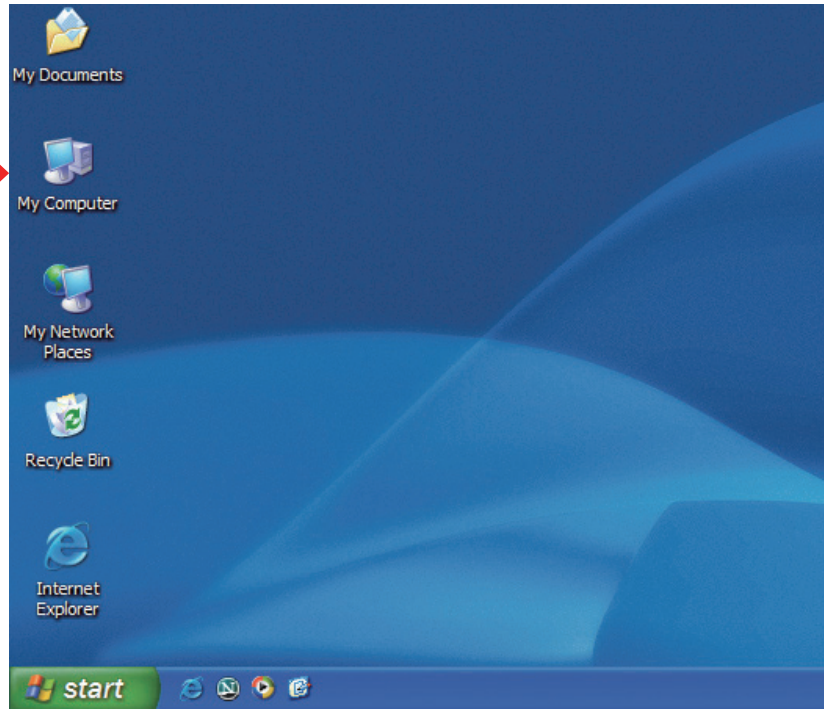
The Storage Utility will load and detect any ShareCenter devices that are on the local network.

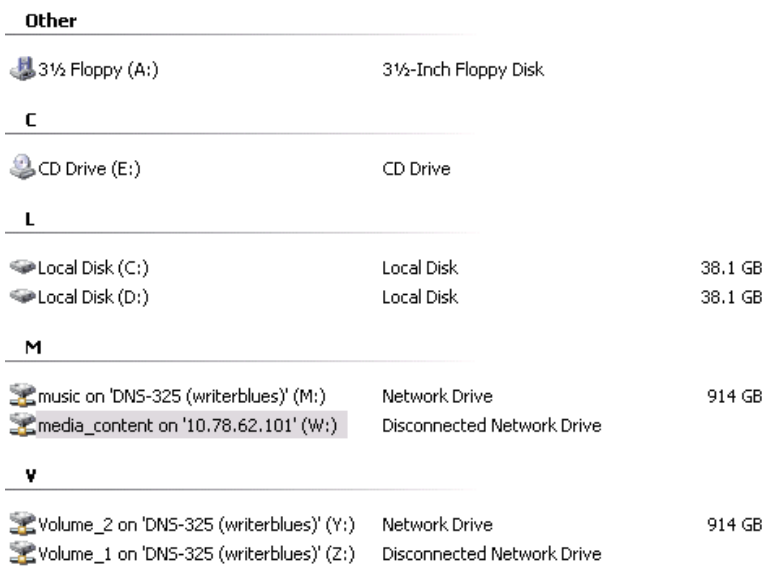
If the ShareCenter™ you are working with does not show up in the device list, click Refresh.



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

Double-click the My Computer icon on your desktop.



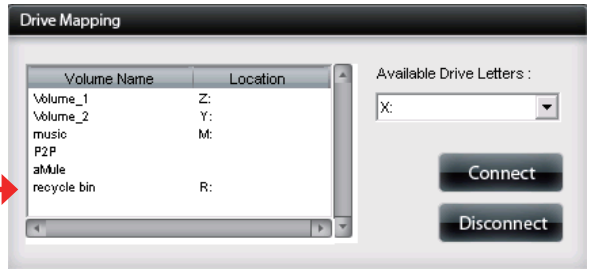


Double-click the mapped drive to access the files and folders.

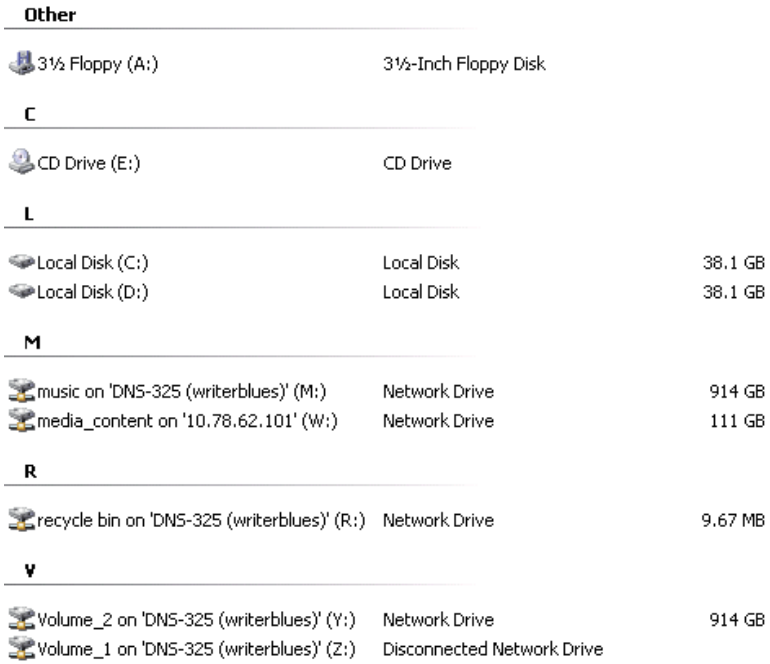
Mapping the Recycle Bin

If you have turned on the Recycle Bin option with any of your Network Shares created then you can map the recycle bin as a Network Drive to have access to it.

The Recycle Bin will appear in the drive mapping area of the Storage Utility.



Once connected the Recycle Bin of the ShareCenter will appear as a Network Drive.



USB Print Server

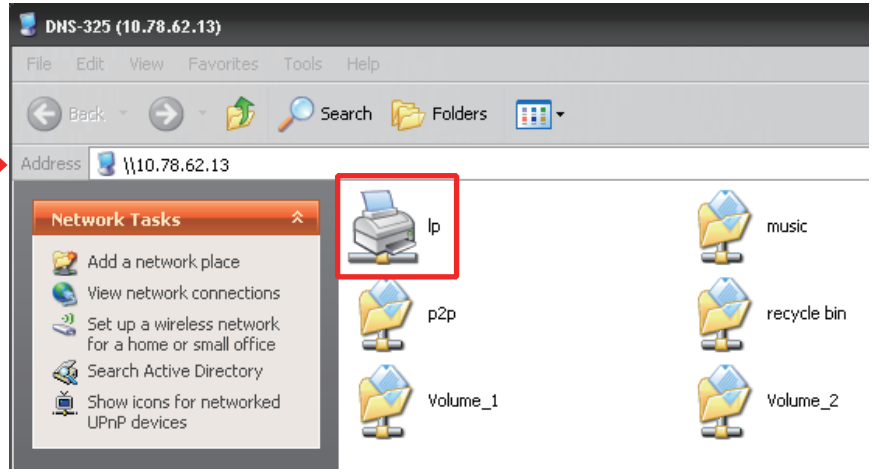
The ShareCenter™ features a built-in USB print server, giving users the ability to share a printer on their local network. Connect a USB printer to the USB port on the back of the ShareCenter™. It is important to ensure that any of the printer manufacturer's drivers are already installed or available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

Note: Only Printer function is supported. The ShareCenter does not support the copy and scan functions of Multi-Function Printers.

To add a printer connect your printers USB cable to the USB port of your ShareCenter:

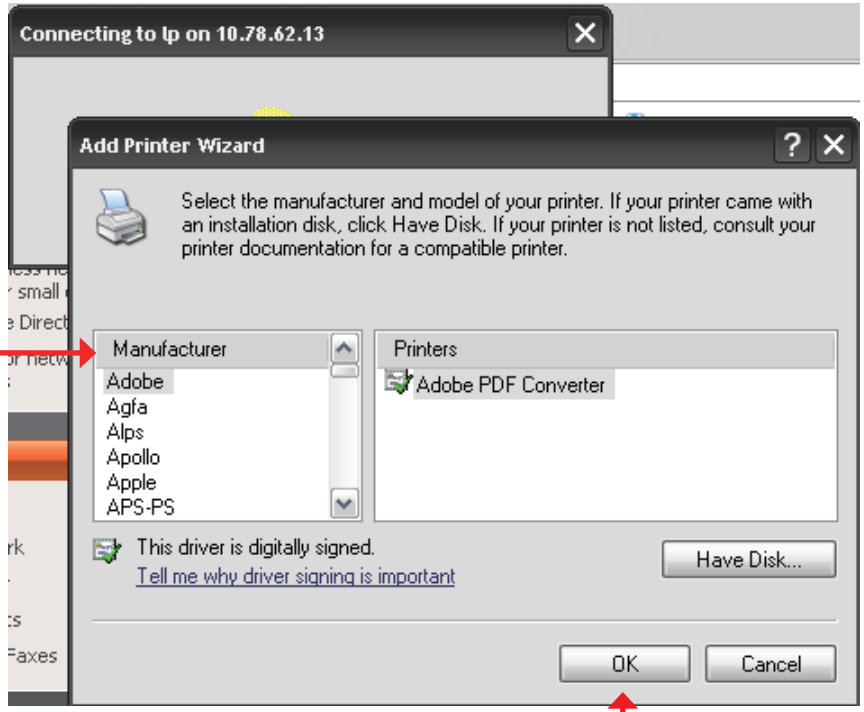
The printer should appear in your in the System Info menu of the Status icon:

Connect to your ShareCenter with Samba and then double click the lp icon.

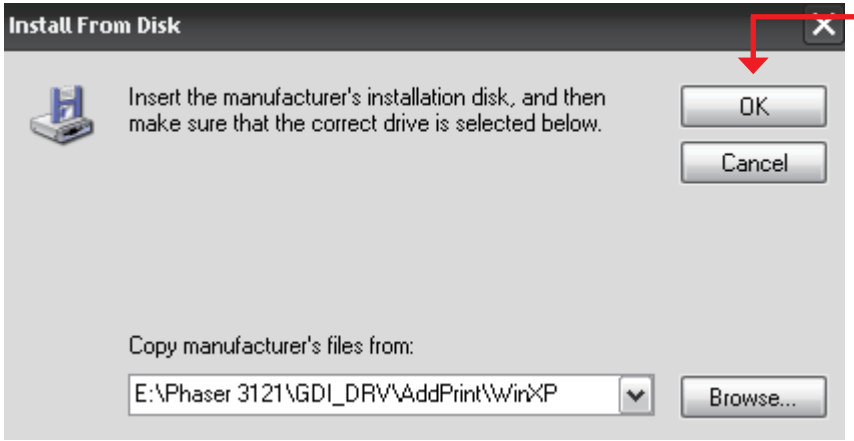


The Windows® Add Printer Wizard will launch:

Select the printer driver from the installed Manufacturer list or use the Have Disk button to browse for the printer driver file.

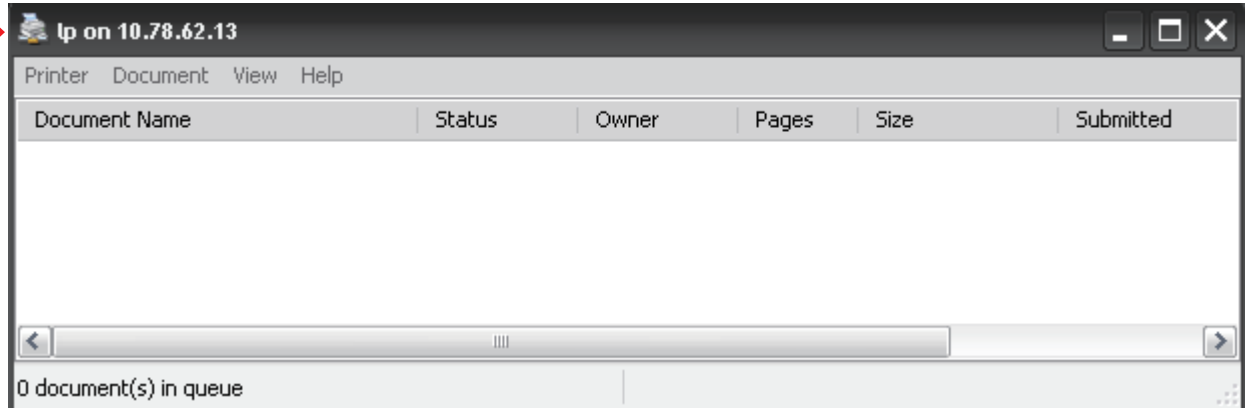


Click **OK** to continue.



Once you have selected the proper driver as shown in the browse list then click **OK** to install the printer.

The printer is now installed and the printer queue will appear.



Yahoo! Widget Installation

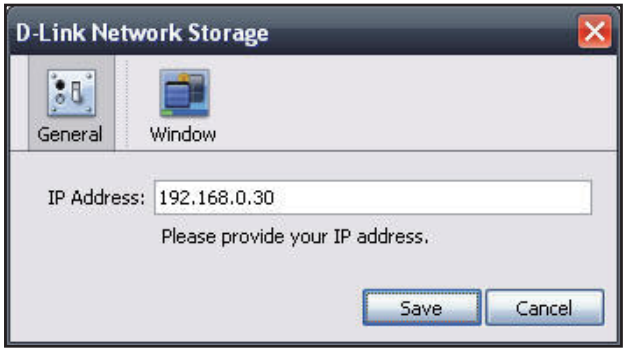
D-Link provides an added feature to the sharecenter called a Yahoo! Widget.

What is a Yahoo Widget?

Yahoo! Widgets are free application platforms that can be used in Microsoft Windows and Mac OS X. The engine uses a JavaScript runtime environment combined with an XML interpreter to run small applications referred to as widgets, and hence is part of a class of software applications called widget engines.

Step 1: Install the Yahoo! Widget downloaded. Once the Yahoo! Widget is installed a D-Link icon will appear in your Widget Dock. Once you hover with your mouse over the D-Link Widget you'll be able to click the configuration button.

Step 2: Click the configuration button to configure the Widget.
Enter the IP Address of your ShareCenter and click on the Save button.
Now your ready to use your new D-Link Yahoo! Widget!



Yahoo! Widget Display

The D-Link Widget is mainly used for monitoring the activities taking place on your ShareCenter.

System: In the System window information about your Computer, ShareCenter, IP Address, Firmware Version and Current Operational Temperature are displayed.

Hard Drive: In the Hard Drive window information about the storage space of your ShareCenter is displayed.

Server: In the Server window information about the USB Device, UPnP Server, ITunes and FTP Server configured on your ShareCenter is displayed.

Download: When the P2P Application is loaded, you can monitor your P2P download status here.

USB Copy Function

The ShareCenter supports on option where the user can enter a USB storage medium in to the USB port and with a click of a button automatically copy the contents of the USB storage medium into a folder on the ShareCenter.

Step 1: Insert a USB storage device into the **USB port**, located on the front panel of the ShareCenter. The **USB Light on the front panel** will start to flicker and once it is on and solid, then the USB storage is ready for use.

Step 2: To copy the contents of the USB storage to a folder on the ShareCenter press and hold the Unmount **Unmount USB** for 1-3 seconds. The ShareCenter will create a new folder in the Volume 1 folder and will copy all the files from the USB storage to this folder.

Step 3: To **unmount** the USB storage device after the copy is complete, press and hold the USB Copy button in for 5 seconds. When the **USB Light** has switched off, then the USB storage un-mounted successfully and is ready to be removed.

To check whether the USB storage device is connected successfully, the user can navigate to the **System Info menu of the System Status** icon in the Management Tab of the Web GUI of the ShareCenter and view the **USB Information** section.

Note: It is a very good practise to un-mount an USB storage device before removing it from a USB port.