## USER MANUAL DNS-343

VERSION 1.0







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# Product Overview Package Contents

- D-Link DNS-343 4-Bay Network Storage Enclosure
- CD-ROM with Manual and Software
- Quick Installation Guide
- Power Adapter
- Power Cable
- CAT5 Ethernet Cable



Note: Using a power supply with a different voltage than the one included with the DNS-343 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 system requirements are recommended:

- Computer with: 1GHz processor / 512 MB RAM / 200 MB available space / CD-ROM drive
- Internet Explorer version 6.0 or Mozilla Firefox 1.0 and above
- Windows<sup>®</sup> XP (with Service Pack 2) or Vista<sup>™</sup>
- The DNS-343 requires installation of a hard drive before it can be used. The hard disk must be a 3.5" SATA Hard Drive of any capacity.

## Introduction

The D-Link DNS-343 4-Bay Network Storage Enclosure shares your documents, photos, music, and videos across the network and on the Internet (via FTP server) so family members, friends, or employees can access them. This enclosure, which can hold four 3.5" SATA hard drives of any capacity<sup>1</sup>, creates a central network point for backing up valuable files. The built-in RAID 1<sup>2</sup> mirroring technology protects these files from drive failure. Other options such as Standard, JBOD, RAID 0, and RAID 5 are also available.

The DNS-343 shares files over the Internet via the built-in FTP server<sup>3</sup>. Users and groups can be created and assigned to folders with either read or read/write permissions. Quotas can be set per user or group to restrict space usage. In addition, the DNS-343 can be used to stream photos, music, and videos to UPnP AV compatible network media players<sup>4</sup>.

The included CD contains D-Link's Easy Search Utility. This utility allows you to locate the DNS-343 on the network and map drives to your computer. Backup software is also included on the CD. This software allows you to backup your files from a computer to the DNS-343 manually, by a schedule, or in real-time. Real-time backups are a great way to safeguard against unfortunate accidents that may result in the loss of important files.

Combining ease of use with practical, high performance features, the DNS-343 is an organized solution for any network. Free up drive space on computers and centralize data on your network with the DNS-343 4-Bay Network Storage Enclosure!

1 Hard Drive(s) not included.

- 3 Note that use of an FTP Server to access files over the Internet does not provide for secure or encrypted transmissions.
- 4 D-Link cannot guarantee full compatibility or proper playback with all codecs. Playback capability depends on the codec support of the UPnP<sup>™</sup> AV media player.

 $<sup>2\;</sup>$  RAID 1 mirroring requires the use of at least 2 internal SATA drives.

## **Features**

- Equipped with one 10/100/1000 Mbps auto-MDIX Gigabit Ethernet LAN port
- Embedded SATA 3.5" HDD interface
- 128X64 OLED display screen
- 4-bay Serial ATA Hard Drive with RAID 0/1/5/JBoD support
- Supports 2 modes: Open mode and Account mode
- Supports Static and DHCP IP address assignment
- Supports Real time clock (RTC)
- Web-based administrative program is stored in flash ROM of the server.
- No setup necessary in open mode
- Supports Windows<sup>®</sup> XP and Vista<sup>™</sup> Operating Systems
- Supports UPnP on Windows XP
- Supports PnP-X/LLTD
- Equipped with Ultra Cooler (aluminum housing + FAN speed control)
- Supports Thermal sensor
- E-mail Alert system to notify specified users of any device problems
- Supports HTTPS management function
- Supports iTunes Server
- Supports Schedule download
- Supports Easy Search
- Supports Downloader
- Supports Uni-code
- Supports User and Group management
- Supports Quotas for users and groups
- Supports group assignment for Network sharing and FTP server
- Can act as a DHCP Server
- Supports Configuration file save/load
- Tool-less Hard Drive installation
- Supports UPnP AV and DLNA compliant
- Supports DDNS
- Supports FTP Server
- USB port supports print server and UPS monitoring
- Jumbo frame support

## Hardware Overview Front View

#### **Power Button**

Use this button to switch the device on or off. To switch on the device press the button once. To switch off the device hold the button down for 5 seconds.



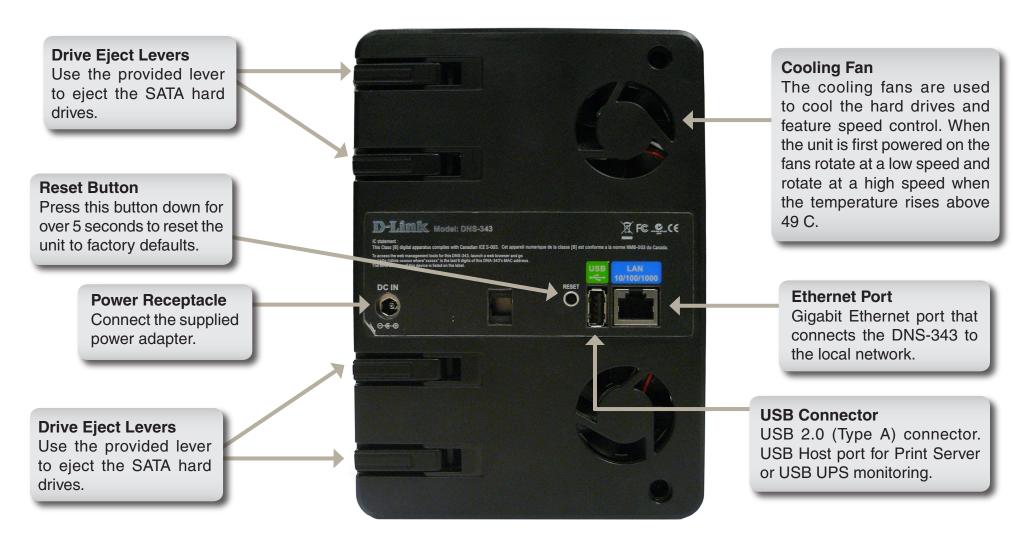
#### OLED:

This screen displays System Information, HD Status, and Server Status.

#### **Next Button**

Use this button to display the System Information (system state), HD Status (hard drive state) and Server Status (server status state) on the OLED. Press the button once to alternate between the different Status screens

### **Rear Panel (Connections)**



# Using the OLED

The DNS-343 network storage enclosure features an OLED that enables the administrator to easily view information about the DNS-343. The OLED display screen displays information about the network connection, hard drive, and server status. The OLED has three different screens:

System Information - This screen shows the following information:

- The hostname of the DNS-343
- The firmware version
- The IP address of the DNS-343
- The operating temperature

Hard Drive Status - This screen shows the following information:

• The percentage of space used on the hard drives

Server Status - This screen shows the following information:

- Whether a printer is connected to the server
- The status of the UPNP server
- The status of the iTunes server
- The status of the FTP Server

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

# Installation Hardware Setup

This section provides unpacking and installation information for the DNS-343. Open the shipping carton for the DNS-343 and carefully unpack its contents. If this is the first time using the DNS-343 or if a new hard disk is installed, use the Easy Search utility located on the Installation CD and follow the instructions for setting up, configuring and formatting the new drive.

To install the DNS-343 on your local network, refer to the steps below:

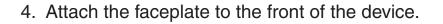
1. Access the drive bays by sliding the faceplate up until it unlatches from the device.

2. Once the faceplate is unlatched, pull it off the device, exposing the drive bay.





3. Insert a 3.5" SATA hard drive into an available drive bay. Make sure to align the drive connector to the SATA connector on the bottom edge inside the drive bay of the DNS-343. Gently push the drive in until it connects.



D-Link

Dalink

5. Connect an Ethernet cable to the available Ethernet port. This cable should connect the DNS-343 to your local network via a router or switch, or directly to a computer for configuration.

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

When a hard disk is installed, the hard disk must first be formatted in the DNS-343 before it can be used. Insert the Installation CD into your computer's CD-ROM or DVD-ROM drive and follow the instructions below to use the Easy Search Utility to establish a network link to the DNS-343. Then use the web-based management software to format the new hard disk.



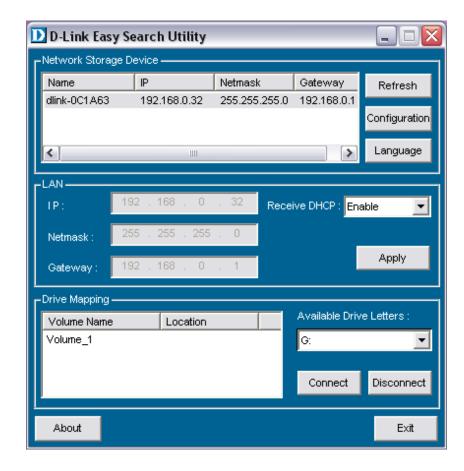




# **Configuration** Easy Search Utility

When first powered on, during the initial boot sequence, the DNS-343 will wait to be assigned an IP address via DHCP. If it does not receive a DHCP assigned IP address, by default it will have a self-assigned IP address of 192.168.0.32. It is recommended to use the included D-Link Easy Search Utility when accessing and configuring the DNS-343 for the first time. If you want to change the IP address before logging in or are unable to connect to the DNS-343 IP address, you can use the Easy Search Utility provided on the product CD to locate the device on your network and make any needed changes.

Network Storage Device	The Easy Search Utility displays all available DNS-343 devices within the same network.
Refresh	Refreshes the device list.
Configuration	Click <b>Configuration</b> to access the Web based configuration of the DNS-343.
LAN	Configure the LAN Settings for the DNS-343.
Apply	Click <b>Apply</b> to save changes to the LAN Settings.
Drive Mapping	Volumes that are available for mapping are displayed here.
Available Drive Letters	Choose an available drive letter. Click <b>Connect</b> to map the selected volume. Click <b>Disconnect</b> to disconnect the selected mapped volume.
Exit	Click Exit to close the utility.



## **Getting Started**

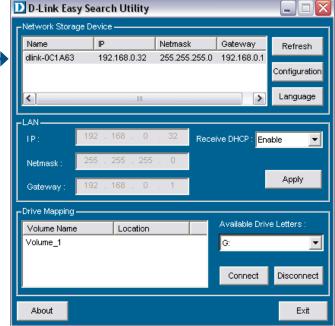
To run the Easy Search Utility, insert the DNS-343 CD into your CD-ROM drive:

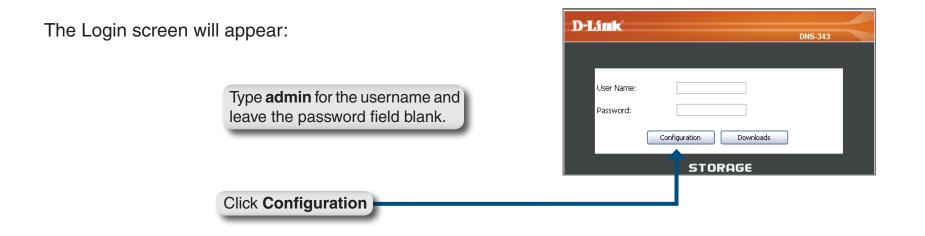
D-Link 4-BAY NETWORK STORAGE ENCLOSURE Click Easy Search Utility. Easy Search Utility Memoo AutoBack View OIC S View Manua Acrobat Reade Support D-Link Easy Search Utility Network Storage Device IP Name Netmask Gateway Refresh dlink-0C1A63 192.168.0.32 255,255,255.0 192.168.0.1 Configuration

Select the listed DNS-343 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.

The first window that appears will require the user to login for **Configuration** or **Downloads** menus. The **Downloads** menus are described later in this guide in the section titled **Downloads** on page 60.

**Note:** The computer used to access the DNS-343 web-based configuration manager must be on the same subnet as the DNS-343. If your network is using a DHCP server and the computer receives IP settings from DHCP, the DNS-343 will automatically be in the same subnet.





**Note:** If the web browser is unable to connect to the web manager of the DNS-343, check to make sure your computer is on the same subnet as the DNS-343. For example, if there is no DHCP server active, your computer will need an IP address in the 192.168.0.0 subnet. Your computer should have an IP address of 192.168.0.x where x equals a number from 1 to 31, or 33 to 254.

When logging into the DNS-343 for the first time, you will be asked to choose a drive configuration (Basic or Custom) and format the drives.

*Basic Configuration* offers four options: **Standard**, **JBOD**, **RAID 1** and **RAID 5**. Standard configures each disk as a separate volume, while JBOD combines all disks into a single volume. See page 26 for more details on using the RAID configurations.

*Custom Configuration* offers 3 combination methods: **RAID 0 + JBOD**, **RAID 1 + JBOD**, and **RAID 5 + JBOD**. See page 26 for more details on using the RAID configurations.

Note: All data will be erased during the format process.

When prompted to configure the Hard Drive Settings:

Select from one of the basic types of hard drive configurations below:

- Standard
- JBOD
- RAID 1
- RAID 5

Or select Custom Configuration and then click Next.

*Note:* All data will be erased off the hard drives installed in the DNS-343 during the format process!

D-Link			
		DNS	-343
HARD DRIVE C	ONFIGURATION:		
	drive configuration or forn ur data will be erased du	mat the newly inserted hard uring the process.	drive
Disk Vendor	Model	Serial Number	Size
1 Hitachi	HDS728080PLA38	0 PFDBW3SWT2VV4H	82 GB
<ul> <li>JBOD (Linear - Combines All Disks)</li> <li>RAID 1 (Mirroring - Keeps Data Safe)</li> <li>RAID 5 (Striping with Rotating Parity)</li> <li>Custom Configuration :</li> </ul>			
			Skip Next
	STO	RAGE	

Cancel

A warning message appears informing you that your drives will be formatted and all data will be erased. Click <b>OK</b> to continue.	$\mapsto$	2	You are about to re-format the hard drive(s).

Microsoft Internet Explorer

 $\overline{\mathbf{X}}$ 

All data will be erased. Do you wish to continue?

When the formatting completes, the *Format Results* screen will appear. Click **Restart** to finish the format procedure. Then click OK to confirm and restart the DNS-343.

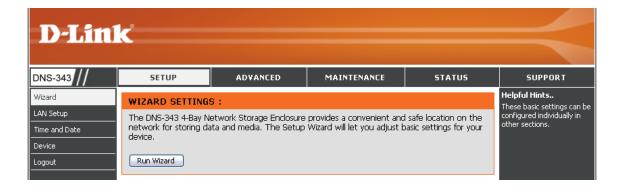


When the system restarts you will be prompted to login to the DNS-343. Login to the DNS-343 with the username and password you created previously

	D-Link	
		DNS-343
	User Name:	
	Password:	
Click Configuration	Configuration Download	ls
	STORAGE	

# Web UI

After login, you will be redirected to the DNS-343 web UI:



The DNS-343 web UI defaults to the *Setup* page. The main categories for configuration are located in the menu tabs at the top of the page. These categories include:

- Setup Contains the DNS-343 setup Wizard, LAN Setup, Time and Date settings and Device settings.
- Advanced Allows the DNS-343 administrator to configure RAID options, Users, groups of users and their storage quotas. The FTP Server, UPnP AV server, iTunes server, LLTD, and DHCP server settings are also contained here as well.
- Maintenance Allows the DNS-343 administrator to reset the Admin Password, perform System maintenance tasks, carry out Firmware Upgrades, configure e-mail alerts, configure Power Management options, configure Dynamic DNS, change the LCD Display settings and get diagnostic information about the installed Hard Disks.
- **Status** Shows current information about the LAN configuration, Device, Printer and Hard drives installed.
- **Support** Contains help files for your DNS-343.

## **Setup** Wizard

The DNS-343 has a setup Wizard that allows you to configure the basic settings for your device.

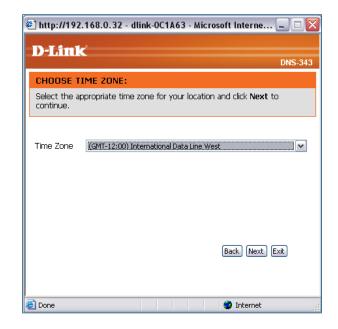
When running the DNS-343 setup wizard, the welcome screen displays a summary of the five steps of the wizard. Click **Next** to continue.

It is recommended that you set an admin password to access the web manager. Type a New Password in the space provided and type it again in the Confirm Password space. Click **Next** to continue.

🕙 http://192.168.0.32 - dlink-0C1A63 - Microsoft Interne 🗔 🗆 🔀			
D-Link			
DNS-343 Welcome to the DNS-343Setup Wizard. The Wizard will guide you			
through these five quick steps. Begin by clicking on Next.			
1. Set Password			
2. Choose Time Zone			
3. Set LAN Connection Type			
4. Set Additional Information			
5. Restart			
Next			
🖉 Done 🔹 🔹			
C Done Structure			
🕘 http://192.168.0.32 - dlink-0C1A63 - Microsoft Interne 🖃 🗆 🔀			

🐔 http://192.168.0.32 - dlink-0C1A63 - Microsoft Interne 🖃 🗆 🔀			
D-Link DNS-343			
SET PASSWORD:			
You may change the <b>admin</b> account password by entering in a new password. Click <b>Next</b> to continue.			
New Password			
Confirm Password			
Back Next Exit			
🕘 Done 🥥 Internet			

Choose your Time Zone from the drop-down menu. Click **Next** to continue.

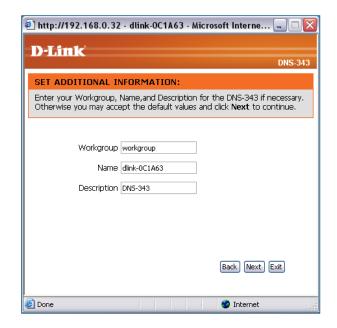


Configure the IP settings for your device. If you are using a DHCP server such as a router on your network, the DNS-343 will automatically obtain the IP settings.

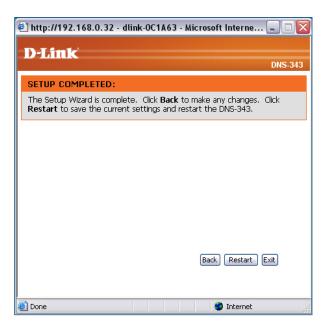
If you prefer to assign a Static IP address, select **Static IP** and enter the network setting for your device. Click **Next** to continue.



Enter the workgroup, name, and description for your DNS-343, or leave the default values and click **Next** to continue.



Click **Back** to make changes or click **Restart** to save your settings and reboot the DNS-343.



When the login prompt appears, login using the new administrator password. Then click **Configuration** to access the configuration page of your DNS-343.

D-Link		_		
	DNS-343			
User Name:				
Password:				
	Configuration Downloads			
STORAGE				

## LAN

In this section, you can configure the LAN settings for your DNS-343.

- Link Speed The LAN Link Speed is set to Auto by default, but can be manually set to 100Mbps or 1000Mbps.
- DHCP Client Select DHCP Client to obtain an IP address from your DHCP server.
  - Static IP Select Static IP to assign the IP information for the DNS-343 manually.
- Jumbo Frames The DNS-343 can support Jumbo Frames that are between 3000 and 9000 bytes in size. In order to enable Jumbo Frames on the DNS-343, click the **Enable** radio button and select an MTU size from the MTU combo box.

SETUP	ADVANCED	MAINTENANCE	STATUS
LAN SETTINGS :	n type and fill out the IP i	nformation if pococcary	
Save Settings	Don't Save Settings	mormador in necessary.	
LAN SETTINGS :			
Speed 1000 Mbp			
Link Speed 💿 A	uto 🔿 100 🔿 1000 🗛	лу Л	
O DHCP Client			
💽 Static IP			
IP Address :	192.168.0.32		
Subnet Mask :	255.255.255.0		
Gateway IP Add	ress : 192.168.0.1		
DNS1:			
DNS2 :			
JUMBO FRAME SE	TTINGS :		
Status :	💿 Enable 🔘 Dis	able	
MTU :	3000 🗸 Appl	У	

Click on the **Save Settings** button to apply and save the new settings. If you have changed the IP address or selected **DHCP client**, it will be necessary to log in again using the new IP address. If you do not know the new address (as would likely be the case when changing from a static IP address to DHCP client), use the **Easy Search Utility** on the Installation CD to obtain the IP address of your device.

### **Time and Date**

The system time and date can be set manually or configured from an NTP server.

Time Zone	Select your time zone from the drop-down menu.	SETUP ADVANCED	MAINTENANCE	STATUS	SUPPORT
	diop-down mend.	SYSTEM TIME SETTINGS :			Helpful Hints Using the NTP option will
NTP Server	Network Time Protocol (NTP) synchronizes the DNS-343 with an	Set the system time by synching with NTP, sync it.	ching with your computer,	or manually entering	guarantee the time to be accurate provided that the DNS-343 is connected to the Internet and your DNS
	Internet time server.	Time: 15:31:16 Date: 02/26/08			values (in SETUP > LAN Setup) are valid.
	D-Link provides two time servers	TIME ZONE SETTINGS :			
	for your convenience. Choose the one closest to your location.	Time Zone (GMT+08:00) Beijing, Chongqing, Hon	ng Kong, Taipei 🛛 💽	Set Time	
Erom Mu	This option will experience	NTP SERVER :			
From My Computer	This option will synchronize the DNS-343 clock with your computer.	NTP Server < Select	NTP Server 💌	Set Time	
		FROM MY COMPUTER :			
Set Date and Time Manually	This option allows you to set the time and date manually. Enter the	Set time from my computer.		Set Time	
	appropriate time and date and click <b>Set Time.</b>	SET THE DATE AND TIME MANUALLY :			
		Month 01 🕶 Day 06 🕶 Year 2007 💌			
		Hour 08 Minute 07 Second 21 M		Set Time	

### **Device Settings**

This section allows you to assign a workgroup name, name, and a description to the DNS-343.

- Workgroup The Workgroup is used by Microsoft<sup>®</sup> Windows Network to organize available network groups within the same network.
  - Name The unique Name appears for other network services including shared libraries on iTunes<sup>®</sup> and other media players.

The name can be used to access your device from a web browser instead of using an IP address, for example, http://dlink-xxxxxx. This is useful when there is more then one DNS-343 on the network.

By default the device name is d-link-xxxxx, where xxxxx is the last six digits of the MAC address.

**Description** Assigns a device description to the DNS-343.

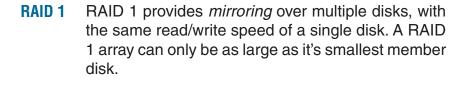
SETUP	ADVANCED	MAINTENANCE	STATUS				
DEVICE SETTINGS	:						
Enter a workgroup, name, and description.							
Save Settings	Save Settings Don't Save Settings						
DEVICE SETTINGS	:						
Workgroup	orkgroup						
Name di	dlink-0C1A63						
Description	N5-343						

## Advanced RAID

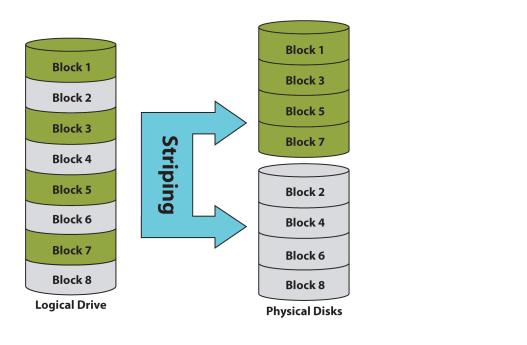
RAID, short for Redundant Array of Independent Disks, is a combination of two or more disks with the aim of providing fault tolerance and improving performance. There are several different levels of RAID, with each one providing a different method of sharing or distributing data among the drives.

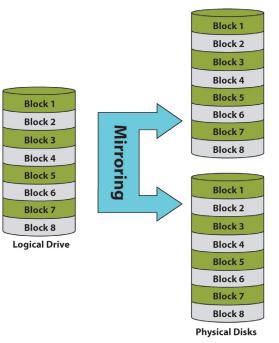
**RAID 0** RAID 0 provides *data striping*, which spreads out blocks of data over all drives, but does not provide data redundancy.

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



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

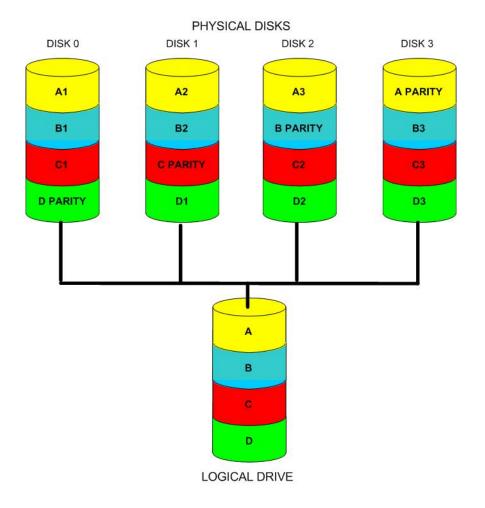




RAID 5 provides data striping with distributed parity, which stores information that can be used to reconstruct data. A RAID 5 array will be the size of all the combined disks capacity less the capacity of one disk, e.g. If there are 4x 80GB disks in the array, the arrays capacity will be 240GB (3x80GB).

Implementing RAID 5 on the DNS-343 allows it to continue operating even if one of the disks fails.

The diagram below indicates the operation of RAID 5.



The DNS-343 supports the following configuration types: **Standard**, where each drive is a unique volume, **JBOD**, which combines both drives in a linear fashion to create one volume, **RAID 1** and **RAID 5** with a Basic Configuration and a combination of RAID 0/JBOD, RAID 1/JBOD and RAID 5/JBOD for Custom Configuration.

Click **Re-configure All Existing Hard Drive(s)** to setup the RAID configuration.

*Note:* All data will be lost when changing the drive configuration:



The following screen appears showing the disks installed in the system. This screen also allows the administrator to choose a RAID configuration type for this device. Select either **Basic Configuration** or **Custom Configuration**.

DNS-343	SETUP /	ADVANCED M	IAINTENANCE	STATUS	SUPPORT
RAID	HARD DRIVE CONFIGUR	ATION :			Helpful Hints
Jsers / Groups	Change the hard drive configu	uration. Your data will be	erased during this proc	BSS.	To see information on the current hard disk
Quotas					configuration, go to the STATUS page.
Network Access	RAID CONFIGURATION :				
FTP Server	Disk Vendor	Model	Serial Number	Size	
JPnP AV Server	1 Hitachi 2 Hitachi	HDS728080PLA380 HDS728080PLA380	PFDBW3SWT2VV4H PFDBW3SWT68RNH	82 GB 82 GB	
Tunes Server	2 Hitachi 3 Hitachi	HDS728080PLA380 HDS728080PLA380	PFDBW35W168RNH PFDB32S6SD9JBN	82 GB	
DHCP Server	4 Hitachi	HDS728080PLA380	PFDBW3SWSJPDLW	82 GB	
Logout	Basic Configuration :				
	Select a RAID type:				
		<ul> <li>Standard (Individual</li> </ul>			
		O JBOD (Linear - Com	,		
		ORAID 1 (Mirroring - I			
		RAID 5 (Striping with the second s	h Rotating Parity)		
	Custom Configuration				

Basic Configuration

#### **D-Link** DNS-343 ADVANCE MAINTENANC STATUS Change the hard drive configuration. Your data will be erased during this proce **RAID CONFIGURATION** Disk Vendor Model Serial Number Size 1000 GB 400 GB 160 GB Hitachi HDS721010KLA330 GT1000PAG2GV5C Seagate 5QH01EVC 5MT0NDC5 ST3400620N ST3160827AS Tunes Server DHCP Serve Basic Configuration : ogout Custom Configuration Select a RAID type Back Next

#### **Custom Configuration**

### **Users and Groups**

The Users/Groups menu is used to create and manage user and group accounts. These are used for user access and read/write privileges for specified folders on the network drive (using the Network Access menu), or to setup FTP access and privileges. Up to 64 users and 10 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 Access menu.

To create user names and passwords in the *User/Group Creation* menu:

- Type a unique User Name for each user added
- Enter and confirm the user Password
- Click Add to create the new user.

The user will be added to the *User List* and will be available for assignment to a user group if you choose to create groups.

To create a Group:

- Select the Group option in the User And Group Creation menu
- Type a unique group name in the *Add New Group* space and click **Add**.

The group will appear in the *Group List* and will be available for user assignment in the *Group Settings* menu.

To add a user to a user group, under Group Settings:

- Select an available group from the *Select Group* drop-down menu
- Highlight the user from List of all users
- Click the **Add**>> button

SETUP	ADVANCED	MAINTENANCE	STATUS
USERS / GROUPS			
	passwords. Assign users t at users can be assigned t		
USER AND GROUP	CREATION :		
⊙User ○Group			
User Name			
Password			
Confirm Password	Add		
GROUP SETTINGS:			
		Select Group Test	~
List of all users		Users in group	
		Robert	
	Add	1>>	
	<< Ren	nove	
	🗹 All ac	counts	
1		1	
USER LIST :			
Alex Alexa Alexa	0		je Password 闻: Delete
No. User Name 1 Robert	Group Nam Test	IE	<b>D</b> 11
GROUPS LIST :			
No. Group Name	User Nam	e	
1 Test	Robert		ĨĨ

The user is now listed in the Users in group list.

To delete a user from a group, under Group Setting:

- Select the group
- Highlight the user to be removed
- Click the <<Remove button

To remove a user or group from the User or Group lists, click the trash can icon of that group or user.

To change a user password, click the notepad icon of the user.

## Quotas

The DNS-343 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.

- User Quota User quotas are displayed here. Settings Quotas can be edited by clicking on the notepad icon.
- Group Quota Group quotas are displayed here. Settings Quotas can be edited by clicking on the notepad icon.
- Quota Status Displays the current status of the quota feature. The quota function can be started or stopped here.

//		SETUP					MAINTE	NANCE		STATU	SUPPORT	
	QUC	TAS SETTI	NGS :									Helpful Hints The hard drives mus
ps ess	Assig	gn hard drive s	pace quo	otas for I	users or ç	groups.						finished synchronizir before quotas can b
	USE	R QUOTA S	ETTING	S:								
rver												
∋r	NO.	User Name	Volur	ne_1	Volur	me_2	Volur	me_3	Volur	ne_4	—Edit	
	1.0.		Used	Limit	Used	Limit	Used	Limit	Used	Limit		
	1	Robert	Unlin	nited	Unlin	nited	Unlin	nited	Unlin	nited		
	GPC	DUP QUOTA	SETTIN	169 ·								
		JOF QUUIN	OLITIN									
			Volume_1		Volume_2		Volume_3 V		Volume_4			
	NO.	Group Name	Used	Limit	Used	Limit	Used	Limit	Used	Limit	Edit	
	1	Test	Unlin	nited	Unlin	nited	Unlin	nited	Unlin	nited		
	QUC	DTA STATUS	:									

#### **Configuring Quotas**

All users and groups are automatically listed on this page, and cannot be deleted. The default quota setting is "Unlimited".

To add a quota for a particular user or group, you must perform the following:

		USE	r quota s	ETTING	iS :							
				Volur	me_1	Volur	ne_2	Volur	me_3	Volui	me_4	
		NO.	User Name	Used	Limit	Used	Limit	Used	Limit	Used	Limit	-Edit
		1	Robert	Unlin	nited	Unlin	hited	Unlin	nited	Unlin	nited	
you want to	o add a quota to.	U	ISER QUOTA	SETTING	35 :							I
			User Name Volume_1 (	Quota Am		Robert		МВ				
			Volume_2 (			2000		MB				
	Set a quota amount (MB) for the		Volume_3 (	Quota Ami	ount	3000		MB				

\_\_\_\_\_

user and click Apply.

Volume\_4 Quota Amount

User Name

Robert

NO.

1

Volume\_1

Unlimited

Used

Limit

4000

Used

Volume\_2

Unlimited

Limit

MB

Used

Volume\_3

Unlimited

Apply

Limit

Volume\_4

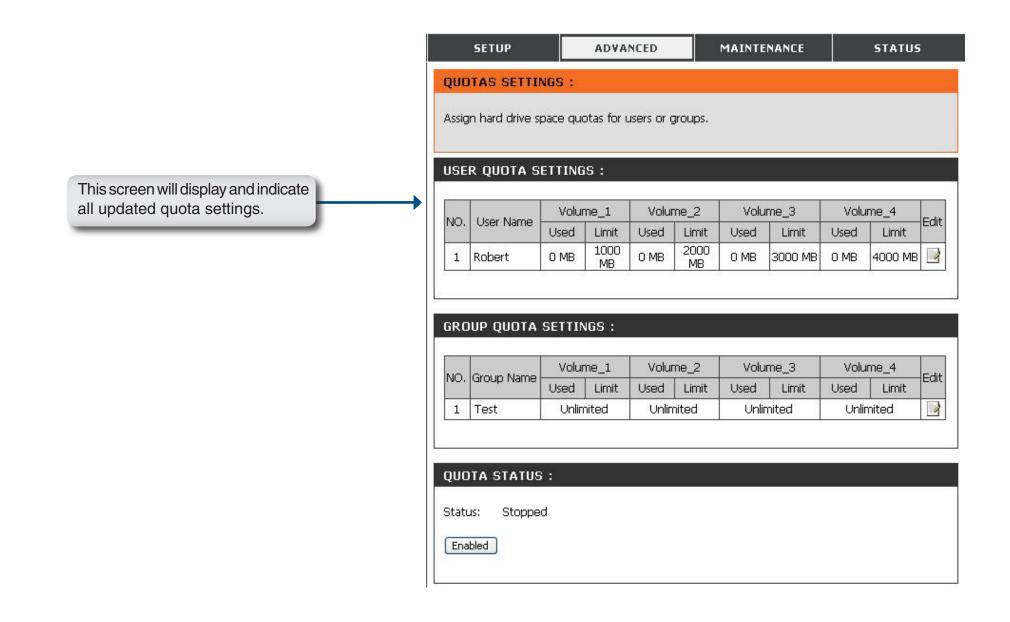
Unlimited

Used

Limit

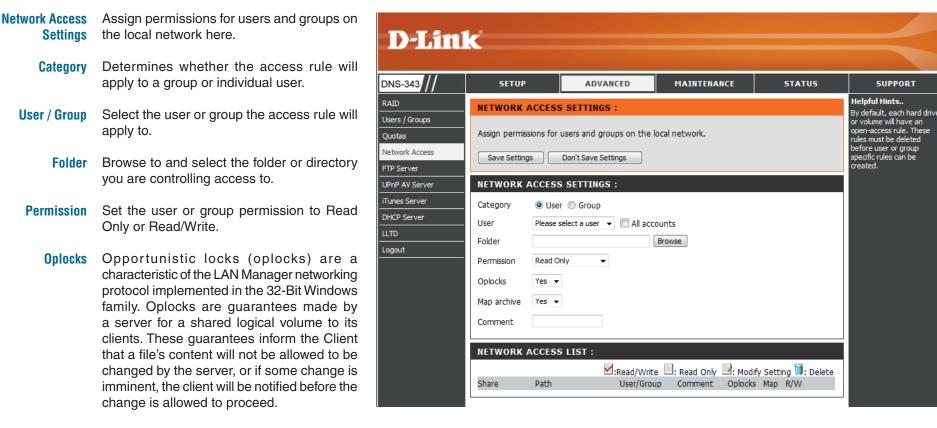
Edit

1



### **Network Access**

This section allows you to assign the access rights for your users and groups to specific folders or volumes. By default, all volumes are open to anyone on the local network with read/write access. Before specific user or group rules can be created, the default rules must be deleted.



Oplocks are designed to increase network performance when it comes to network file sharing however when using file-based database applications it is recommended to set the share oplocks to **No(off)**.

#### Section 3 - Configuration

By default Windows<sup>®</sup> Vista<sup>™</sup> has Oplocks enabled and can not be disabled. If you are having network performance issues with applications sharing files from the DNS-343 you may try to improve performance by setting Oplocks to **No(off)**.

- Map Archive When enabled, the file attribute "Archive" will be copied as the file is being stored on the DNS-343. Certain backup software attach this attribute to files that are being stored as backups.
- **Comment** Enter a comment for reference or description of the rule.
- Network Access List Lists all defined access rules.

### **FTP Server** FTP Server Settings

The DNS-343 is equipped with a built in FTP Server. The server is easy to configure and allows up to 10 users to access the server locally or remotely at the same time.

FTP Server Settings	This section contains the configuration settings for the DNS-343 FTP Server.	
Category	Determines whether the FTP server rule will	FTF
	apply to an individual user or a group.	Assi
User / Group	Select the group or user the FTP server rule will apply to.	9
Folder	Browse to and select the folder or directory you are granting FTP access to. Select <b>root</b>	FTF Cate
	to grant access to all volumes.	Use Fold
Permission	Set the user or group permission to Read Only or Read/Write.	Peri
Max User	Sets the maximum amount of users that can connect to the FTP server.	Max
Idle Time		Idle Port
	idle before being disconnected.	Flov
Port	Sets the FTP port. Default is 21.	

SETUP	ADVANCED MAINTENANCE STATUS
FTP SERVER S	ETTINGS :
Assign permission	s for users and groups who will be accessing the FTP server from over the Interne
Save Settings	Don't Save Settings
FTP SERVER S	ETTINGS :
Category	⊙ User ○ Group
User	Please select a user 💌 🗌 All accounts
Folder	root
Permission	Read Only
Max User	10 🛩
Idle Time	2 (1~10 Minutes)
Port	21 ( 1~65535,Default:21)
Flow Control	⊙ Unlimited ○ x 10 KBs
Client Language	Unicode

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

**Client Language** Specify alternate input characters allowed for FTP connection requests.

**Note:** If your Internet access is controlled through a router, or if your network uses a firewall device of any kind, it will likely be necessary to configure the router or firewall device to allow FTP requests from the Internet. Often it is possible to configure the router to direct FTP traffic to specified devices, in this case, to the DNS-343. Usually, at a minimum, it is necessary to enter the IP address of the DNS-343 and the TCP port used for FTP (port 21). See the user documentation of the firewall device or router for information on creating forwarding rules for FTP traffic to devices on the LAN.

D-Link DNS-343 User Manual

#### **FTP Server Status**

FTP Access	Displays users and/or groups that have
List	access and their user rights.

- Status Displays if the FTP server is started or stopped.
  - **Port** Displays the FTP Port.
- Max User Displays the maximum number of users.
- Flow Control Displays the flow control status.
  - Idle Time Displays the idle time before disconnecting the user.

**Client** Displays the client language set for this FTP **Language** server.

IP ACCESS LI	ST :	
	🗹:Read/Write 🔲:Read Only	B:Modify Setting 间:Delete
Path	User/Group	R/W
TP SERVER S	ATUS :	
Status	Stopped	
Port	21	
Max User	10	
Flow Control	Unlimited	
Idle Time	2 Minutes	

Start FTP Server

Unicode

Client Language

#### **FTP Server Behind a Router**

If you are behind a router, you will need to forward the FTP port from the router to the DNS-343. Additional filtering and firewall settings may need to be modified on your router to allow FTP Access to the DNS-343 from the Internet. Once the port has been forwarded on the router, users from the internet will access the FTP server through the WAN IP address of the router.

If you are using a D-Link router, such as the WBR-2310 used in the example below, your port forwarding rule should be similar to the following:

Name	Name the DNS-343 FTP server rule.	D
IP Address	Enter the IP address of the DNS-343.	WBR-23
Dublic Dest		PORT FO
Public Port	Enter the public FTP port. By	APPLICA
	default, the port is 21.	
		WEBSITE
Private Port	Enter the private FTP port. By	FIREWA
	default, the port is 21.	ADVANC
Traffic Type	Set the traffic type to TCP.	



If you use an FTP port other than 21, then users accessing the FTP server using an FTP client will have to specify the non-standard port, and users who are using a browser will have to specify the port in the URL (e.g. ftp://ftp.dns323.com:3000, where the FTP port is 3000).

#### **UPnP AV Server**

The DNS-343 supports media streaming service to UPnP AV compatible clients on the local network. Use the UPnP AV Server menu to select the media content made available to such clients. By default the UPnP server is enabled. The root checkbox specifies access to media content on all volumes and folders on the drive. Click on the **Save Settings** button to apply and save the new settings.

- UPnP AV Select Enable or Disable to enable or disable the DNS-343 UPnP AV server.
  - Folder Specifies the folder or directory that will be shared by the UPnP AV server. Select **root** to share all files on all volumes, or click **Browse** to select a specific folder.
- Auto Refresh Select the auto refresh mode from the drop-down menu.

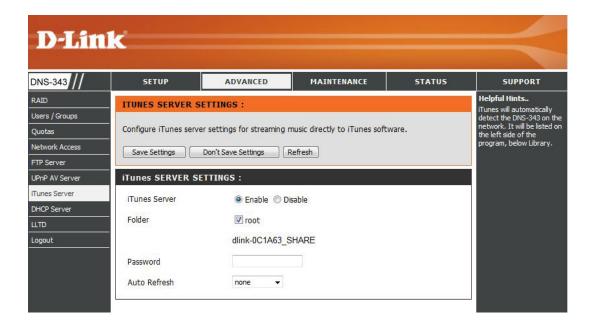


When content is added or deleted from the available folders, click the **Refresh** button and the DNS-343 will scan for file updates. While the update scan is underway, the AV media will not be available for use by clients on the network.

#### **iTunes Server**

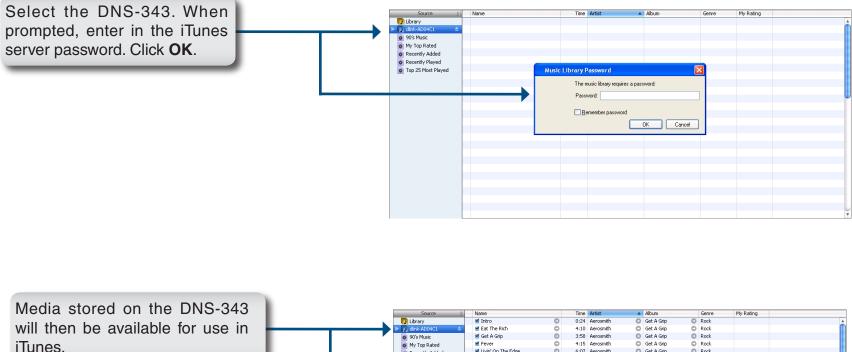
The DNS-343 features an iTunes Server. This server provides the ability to share music and videos to all the available computers within your local network. If the server is enabled, the DNS-343 will be automatically detected by the iTunes program, and the music and videos contained in the specified directory will be available to stream over the network.

- iTunes Server Select Enable or Disable to enable or disable the DNS-343 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.
  - Password Sets password for the iTunes server. (Optional)
- Auto Refresh Select the auto refresh mode from the drop-down menu.
- **Save Settings** Click on the **Save Settings** button to apply and save the new settings.



When content is added or deleted from the available folders, click the **Refresh** button and the DNS-343 will scan for file updates. While the update scan is underway, iTunes files will not be available for use by clients on the network.

After enabling the iTunes server on the DNS-343, launch iTunes. When iTunes detects the DNS-343, select it and you will be prompted to enter the iTunes server password if required.



The state of the state of the later of the state of the s		🗊 Library	Intro	0	0:24	Aerosmith	C Ge	st A Grip	Rock	
will then be available for use in		dink-AD04C1	Eat The Rich	0					Rock	
		90's Music	🗹 Get A Grip	0	3:58	Aerosmith	C Ge	et A Grip	Rock	
Tunes.		My Top Rated	Fever	0	4:15	Aerosmith	C Ge	st A Grip	Rock	
Tulles.		Recently Added	Livin' On The Edge	0	6:07	Aerosmith	C Ge	st A Grip	Rock	
		Recently Played	Flesh	0	5:56	Aerosmith	Ge	st A Grip	Rock	
		Top 25 Most Played	Walk On Down	0	3:39	Aerosmith	C Ge	st A Grip	Rock	
		in top cornext hay ou	Shut Up And Dance	0	4:55	Aerosmith	C) Ge	st A Grip	Rock	
			🗹 Cryin'	0	5:08	Aerosmith	C) Ge	et A Grip	C Rock	
			🕑 Gotta Love It	0	5:58	Aerosmith	C Ge	et A Grip	C Rock	
	-		Crazy	0	5:16	Aerosmith	C Ge	et A Grip	C Rock	
			🗹 Line Up	0	4:02	Aerosmith	O Ge	et A Grip	C Rock	
			Amazing	0	5:56	Aerosmith	O Ge	st A Grip	C Rock	
			🗹 Boogie Man	0	2:17	Aerosmith	O Ge	st A Grip	C Rock	
			🗹 Politik	0	5:18	Coldplay	O A	Rush Of Blood T	C Rock	
			In My Place	0			O A	Rush Of Blood T	C Rock	
			God Put A Smile Upon Your Face	0		Coldplay		Rush Of Blood T		
			The Scientist	0		Coldplay	O A	Rush Of Blood T	C Rock	
			Clocks	0				Rush Of Blood T		
			✓ Daylight	0		Coldplay		Rush Of Blood T		
			Green Eyes	0		Coldplay		Rush Of Blood T		
			Varning Sign	0		Coldplay		Rush Of Blood T		
			A Whisper	0		Coldplay		Rush Of Blood T		
			A Rush Of Blood To The Head	0		Coldplay		Rush Of Blood T		
			Amsterdam	0		Coldplay		Rush Of Blood T		
			Drive	0				Itomatic For Th		
			<ul> <li>D1140</li> </ul>	~	41.32	NEPL	- AC	acompact of Thiss	W NOCK	

#### **DHCP Server**

The DNS-343 can be used as a DHCP Server. As a DHCP server, it can be used to serve IP addresses to devices on your local network. However, this feature should not be enabled if you already have a DHCP server, such as a router on your local network.

DHCP Server Enables or Disables the DNS-343 DHCP Server. Starting IP Enter the starting IP address for the range of addresses assigned by the Address DHCP server. Ending IP Enter the ending IP address for the Address range of addresses assigned by the DHCP server. Lease Time Sets the duration of time that an IP address will remain assigned to a device. Save Settings Click on the Save Settings button to apply and save the new settings.

SETUR	(	ADVANCED	MAINTENANCE	STATUS
DHCP SER	VER SETTIN	IGS :		
Enable the D	HCP server to	distribute IP address	ses on the network.	
Save Settin	gs Don'	t Save Settings	Refresh	
HCP SER	VER :			
OHCP Server	: © E	nabled 💿 Disabled		
Starting IP A	ddress : 192.1	68.0.2		
Ending IP Ad	dress : 192.1	68.0.254		
Lease Time :	1 We			

## Maintenance Change Admin Password

The Admin menu allows you to set a password for your admin account. It is recommended to set an admin password when first configuring your DNS-343.

- **User Name** The administrator user name is *admin,* and this cannot be changed.
- Password Enter the current password. (Leave this blank if you have not set a password yet.)
- New Password Enter a new password.

**Confirm** Enter the new password again for **Password** confirmation.

	k				
NS-343	SETUP	ADVANCED	MAINTENANCE	STATUS	SUPPORT
dmin Password	ADMINISTRATOR S	ETTINGS :			Helpful Hints
ystem	Set the administrator's p	assword.			For security reasons, it is recommended that you
rmware Upgrade		change the Password for			
mail Alerts	Save Settings D	on't Save Settings			the Administrator . Be sur- to write down the new
ower Management	ADMINISTRATOR :				Passwords to avoid having to reset the DNS-343 in
ynamic DNS					the event that they are forgotten.
CD Display	User Name				loigotten
can Disk	Password				
ogout	New Password	:			
	Confirm Password	:			

Click Save Settings to save the new password.

#### System

The DNS-343 System menu provides options to perform a system restart, save and load configuration settings, and set idle times.

#### Restart Click Restart to reboot the DNS-343.

- **Defaults** Click **Restore** to reset the DNS-343 to its factory default settings. This will erase all previous configuration changes.
- **Shutdown** Click **Shutdown** to turn off the DNS-343.
- **Configuration** Settings Click Save to save the current DNS-343 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 will be allowed to remain idle while accessing the DNS-343 configuration settings or that users will be allowed to remain idle while accessing the download schedule settings.
    - Apply Click Apply to save the settings.

SETUP	ADVANCED	MAINTENANCE	STATUS
SYSTEM SETTING	is :		
Restart the system, idle time.	restore to factory defaults,	save or load configuration sett	ings, and change the
RESTART :			
System Restart.	Re	start	
DEFAULTS :			
Restore To Factory (	Default Settings.	tore	
SHUTDOWN :			
System shutdown.	Shut	down	
CONFIGURATION	SETTINGS :		
Save Configuration S Load Configuration S		ve Bro	wse Load
IDLE TIME :			
Config Inactivity Tim Download Schedule	Inactivity Timer 10	(Minutes) ply Cancel	

#### Firmware

This section allows you to check for new firmware releases and upload them to your device.

To upgrade the DNS-343 firmware, go the D-Link Support Page and download the latest version. When the download is completed, use the **Browse** button to locate the firmware file on your computer and click the **Apply** button to begin loading the firmware to your device.

SETUP	ADVANCED	MAINTENANCE	STATUS					
FIRMWARE UPGRA	ADE :							
A new firmware upgrade may be available for your DNS-343. It is recommended to keep your DNS-343 firmware up-to-date to maintain and improve the functionality and performance of your storage device.								
Click here <u>D-Link Supp</u>	Click here D-Link Support Page to check for the latest firmware version available.							
version from the <u>D-Lin</u> drive by clicking the Br	To upgrade the firmware on your DNS-343, please download and save the latest firmware version from the <u>D-Link Support Page</u> to your local hard drive. Locate the file on your local hard drive by clicking the Browse button. Once you have found and opened the file using the browse button, click the Apply button to start the firmware upgrade.							
Apply Cancel								
CURRENT FIRMWA	RE INFO :							
Current Firmv	vare Version : 1.00							
Fin	mware Date : 01/11/2008	3						
	File Path :	Browse						

#### **E-Mail Alerts**

With the DNS-343 E-Mail Alerts, you can configure e-mails to be sent alerting you to certain operational conditions and drive status conditions. These alerts can prove helpful with the management and safeguarding of important data.

Alert Settings This section contains the configuration settings for your e-mail account and alert preferences.

After you have configured the settings, use the **Test E-Mail** button to send a test e-mail and confirm your settings are correct.

A pop-up window will display the success or failure of the test.

Alert Types This section contains the alert options and their configuration settings.

Refer to page 48 for more information.

Save Settings Click Save Settings to apply and save the new alert settings.

/	SETUP	ADVANCED	MAINTENANCE	STATUS	SUPPORT
d	E-MAIL ALERTS :				Helpful Hints
	E-mail yourself alerts f	or certain conditions or f	or drive space status updates.		The SMTP server is your outgoing mail server. If
		- 1			aren't sure what this is, contact the company th
	Save Settings	Don't Save Settings	Clear Saved Settings		provides e-mail services you.
nt	E-MAIL ALERT SE	TTINGS :			
	Login Meth	od : <ul> <li>Account</li> <li>Ano</li> </ul>	DVDD0US		
	User Nar		nymous		
	Passwo				
	SMTP Serv				
	Sender E-m				
	Receiver E-m				
	Receiver E II				
		Test E-	Mail		
	ALERT TYPES :				
	📃 Space Statu	is Interval: 0 🔻 (Hour	rs) 0 🔻 (Minutes)		
	🔲 A Volume Is	Full			
	🔲 A Hard Drive	e Has Failed			
	🔲 The Adminis	strator's Password Has Be	en Changed		
	Firmware Ha	as Been Upgraded			
	System Ten	nperature Has Exceeded	Fahrenheit 🔻 140 °F		
	Enabling this fea		343 to shut down after the sel	ected	

#### **E-Mail Alert Settings**

Login Method	Select either <b>Account</b> or <b>Anonymous</b> . Choosing Anonymous does not require	E-MAIL ALERT SETTINGS:
	a User Name or Password.	Login Method : 💽 Account 🔘 Anonymous
		User Name :
User Name	Enter the appropriate user name for	Password :
	your e-mail account.	SMTP Server :
Password	Enter the appropriate password for	Sender E-mail :
1 4350014	your e-mail account.	Receiver E-mail :
		Test E-Mail
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.	
_		E-MAIL ALERT SETTINGS:
Sender E-Mail	Enter the "from" e-mail address (e.g. alerts@dns323.com). This	Login Method : 🔿 Account 💿 Anonymous
	field does not require a valid e-mailaddress. However, if your e-mail	SMTP Server :
	client is filtering spam, make sure you allow this address to be received.	Sender E-mail :
		Receiver E-mail :
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.	Test E-Mail

are correct.

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

Test E-Mail

#### **E-Mail Alert Types**

Space Status	Select an interval in hours and	ALERT TYPES :
	minutes to have a status of space remaining on the drives e-mailed.	Space Status Interval: 0
	Ū.	A Volume Is Full
A Volume Is Full	An alert will be sent when the hard	A Hard Drive Has Failed
	drive is full.	The Administrator's Password Has Been Changed
Administrator	An alert will be sent if the admin	Firmware Has Been Upgraded
Password Change	password is changed.	System Temperature Has Exceeded Fahrenheit 👻 140 °F
Firmware Upgraded	An alert will be sent if the firmware is upgraded.	Enabling this feature will cause the DNS-343 to shut down after the selected temperature is exceeded and an e-mail is sent.
System	An alert will be sent if the DNS-343	
Temperature	device temperature exceeds the set	
Exceeded	threshold. After the alert has been sent, the DNS-343 will power off for safety.	

#### **Power Management**

The DNS-343 Power Management feature allows you to configure the drives to shut down after a specified idle time. The drives will power up again when data is accessed.

Power Management	Select Enable or Disable.	SETUP	ADVANCED	MAINTENANCE	STATUS		
Turn off Hard Drives	Set the amount of time before idle drives will shut down. Click <b>Save Settings</b> to apply the settings.	POWER MANAGEMENT SETTINGS :         Enabling this feature will cause the hard drive to hibernate after the specified time of inactivity.         They will wake-up when new activity is detected.         Save Settings       Don't Save Settings					
		POWER MANAGER Power Management : Turn Off Hard Drive :	⊙Enable ○Disable				

#### **Dynamic DNS**

The DDNS feature allows you 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 use the domain name to connect to your server no matter what your IP address is.

DDNS	Select Enable or Disable.	SETUP	ADVANCED	MAINTENANCE	STATUS	
Server Address	Enter the DDNS server address or select	DDNS SETTINGS :				
	from the drop-down menu.	The Dynamic DNS feature allows you to host a server (Web, FTP, Game Server, etc) using a domain name that you have purchased (www.whateveryournameis.com) with your dynamically				
Host Name	Enter your DDNS host name.	assigned IP address. Most broadband Internet Service Providers assign dynamic (changing) IP addresses. Using a DDNS service provider, your friends can enter your host name to connect to your game server no matter what your IP address is.				
Username or Key	Enter your DDNS username or key.	Sign up for D-Link's Free DDNS service at www.DLinkDDNS.com.				
Password or Key	Enter your DDNS password or key.	Save Settings Don't Save Settings				
•	Re-enter your password or key.	DDNS SETTING :				
or Key		DDNS	⊖Enable ⊙Disable			
Timeout	Enter the timeout time in hours.	Server Address		<< Select Dynamic	DNS Server 👻	
01-1		Host Name		(e.g.: me.mydomai	n.net)	
Status	Displays your DDNS status.	Username or Key		]		
	Click Save Settings to apply the settings.	Password or Key		]		
		Verify Password or Key		]		

Status

Disconnected

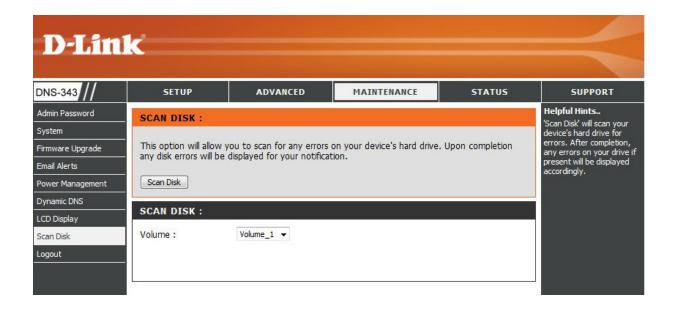
#### **LCD** Display

The LCD Display settings allow the administrator to change the time it takes for the OLED screen on the front of the DNS-343 to power off. Click on the drop-down box below to change the time it takes for the OLED screen to power off. Click the **Save Settings** button to apply the settings

D-Lini	K				$\prec$
DNS-343	SETUP	ADVANCED	MAINTENANCE	STATUS	SUPPORT
Admin Password System Firmware Upgrade Email Alerts Power Management	LCD DISPLAY SETTINGS :         Here you can set the amount of time your LCD can be idle before it is turned off.         Save Settings       Don't Save Settings				Helpful Hints Save on electricity costs and extend the life of your hard drives by using power management.
Dynamic DNS	LCD Display SETTINGS :				
LCD Display	Sleep :	After 15 mins 💌			
Scan Disk		······			
Logout					

## **Disk Utility**

The Disk Utility allows the administrator to perform a standard Scan Disk check for errors on the hard disk, select the volume from the drop-down menu and then click the **Scan Disk** button. Any errors found will be listed along with a description and the available repair options.



# Status Device Information

- LAN Info Displays the local network settings of the DNS-343.
- **Device Info** Displays the workgroup, name, description and current temperature of the DNS-343.
- **Printer Info** Displays information for a connected USB printer.

If your computer is having problems printing to the DNS-343, you can click the **Clear Print Queue(s)** button to remove any print jobs that may be causing your computer to be unable to print.

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

D-Lin	<u>ح</u>					
NS-343 //	SETUP	ADVANCED	MAINTENANCE	STATUS	SUPPORT	
vice Info	DEVICE INFORMAT	TION :				
jout	View a summary of device information here.					
	LAN INFO :					
	S Gateway DEVICE INFO :					
System Temperature: 105 F / 41 C PRINTER INFO :						
	M					
	HARD DRIVE INFO	:				

#### **Connecting a UPS to the DNS-343**

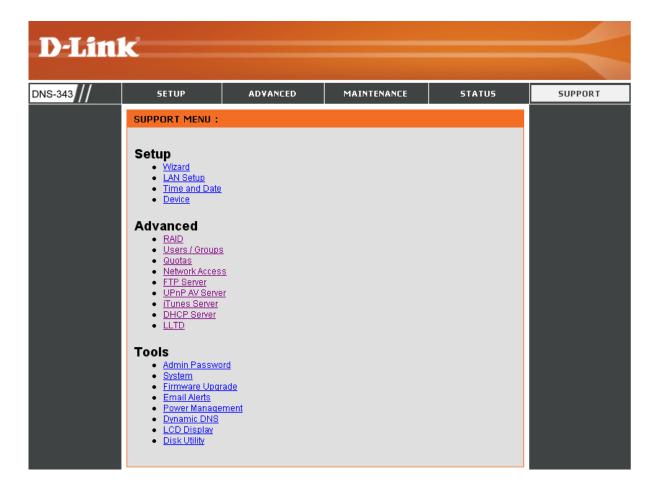
When a UPS (Uninterruptible Power Supply) USB management connection is connected to the DNS-343, the Status screen hides the printer information and displays information about the UPS connected. The screenshot below shows the Status screen when a UPS is attached to the DNS-343.

- **UPS Info** The UPS Information screen displays information about the UPS Manufacturer and the Product name.
- **Battery Charge** Battery Charge indicates the battery power state of the UPS (not all UPS units support this function)
  - Status The Status field will display one of the three messages below:
    - 1. **OL:**This indicates that the UPS is online.
    - 2. **OB:** This indicates that the UPS is running on battery, meaning that there has been a power failure. The DNS-343 is consuming the battery power of the UPS and any data should be saved immediately to prevent any work being lost.
    - 3. **LB:** This indicates that the UPS has low battery power.

UPS INFO :	
Manufacturer: Cypress Semiconductor	
Product: USB to Serial	
Battery Charge: Not Find	
Status: Not Find	

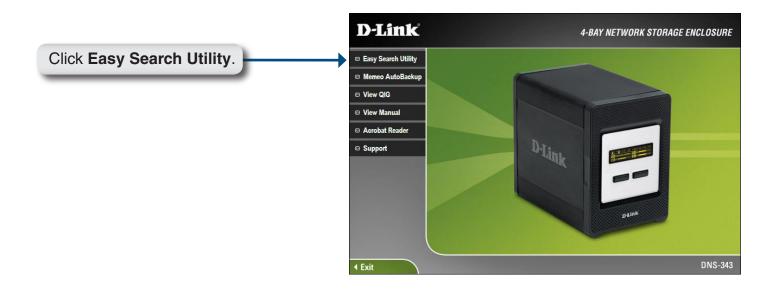
## Support

The DNS-343 Support page provides a menu of Support topics explaining the features of the device.



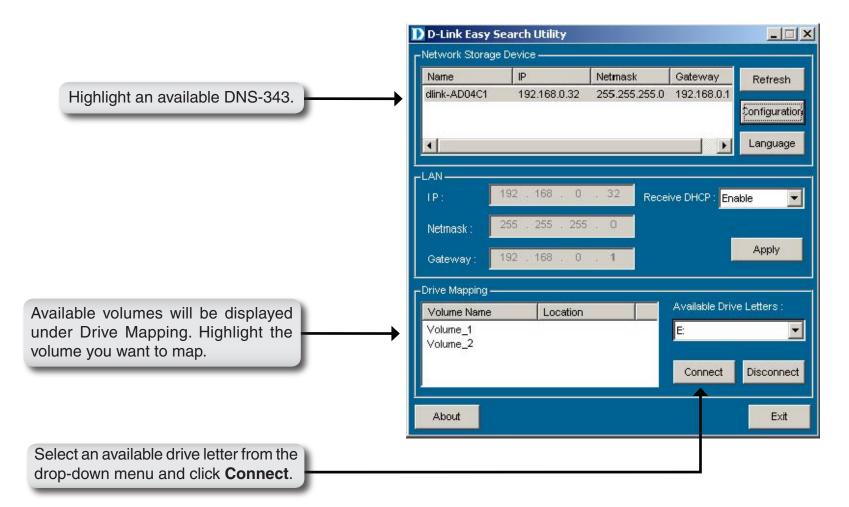
## **Mapping a Drive**

You can use the D-Link Easy Search Utility to map drives to your computer. Insert the DNS-343 CD into your CD-ROM drive.

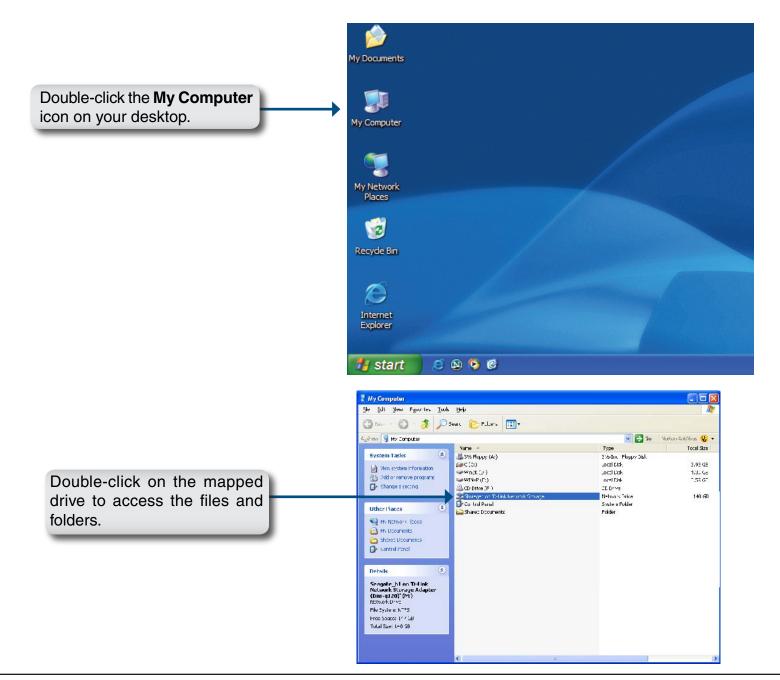


The Easy Search Utility will load and detect any DNS-343 devices that are on the local network.

If the name of your DNS-343 does not display in the device list, click **Refresh**.



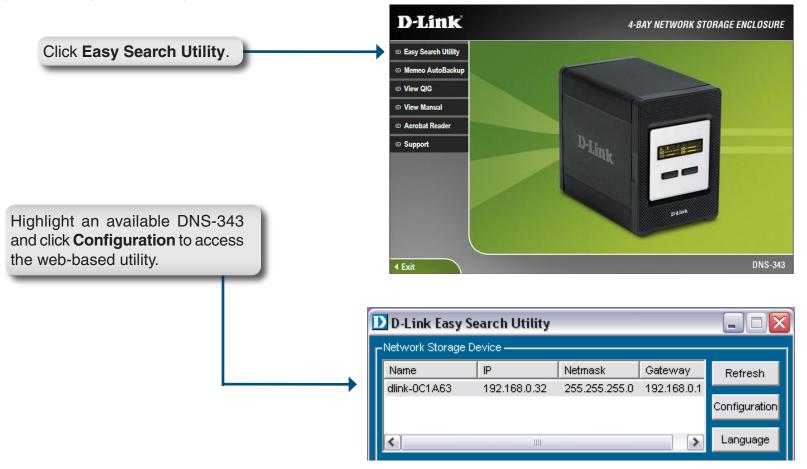
Once connected, your mapped drive(s) will appear in My Computer.



## **Download Scheduling**

The DNS-343 Download Scheduling feature allows you to set up scheduling folder or file downloads and backup sessions.

Begin by accessing the configuration page of your DNS-343:



The DNS-343 login screen will appear:

	<b>D-Link</b>	NS-343	$\leq$
Type <b>admin</b> for the username and leave the password field blank.	User Name: Password: Configuration Downloads		
	STORAGE	<u></u>	
Click Schedule Downloads.			

The DNS-343 Download Scheduling configuration will appear.

#### **Schedule Downloads**

- Scheduling<br/>SettingsConfigure download and backup<br/>schedules here. Refer to the next page<br/>for more information.
- Schedule List The Schedule List will display all completed, active, and pending scheduled downloads and backups.

<b>D-Lin</b> l	k				
DNS-343 /// Scheduling Status Logout	SCHEDULE DOWNLOADS SCHEDULING Schedule downlo Save Settings SCHEDULING S Login Method Type URL Save To	SETTINGS : Don't Save Settings SETTINGS : Account • Anonymous User Name +++++ Password •••••	TP server, web server, or Test Local Browse	local network sh	nare. Helpful Hints Always test the URL before applying changes. This will help to ensure a successful download.
	Recurring Backup SCHEDULE LIS Status Download		local backup) Save To	Time	Del

#### **Scheduling Settings**

- Login Method Select the appropriate login method to access the files for download. If the site requires login credentials, select Account and enter a valid username and password.
  - 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 ftp://123.456.789/test.txt http://www.test.com/test.txt
  - Test Click Test to test the URL is valid and the user name and password are correct.

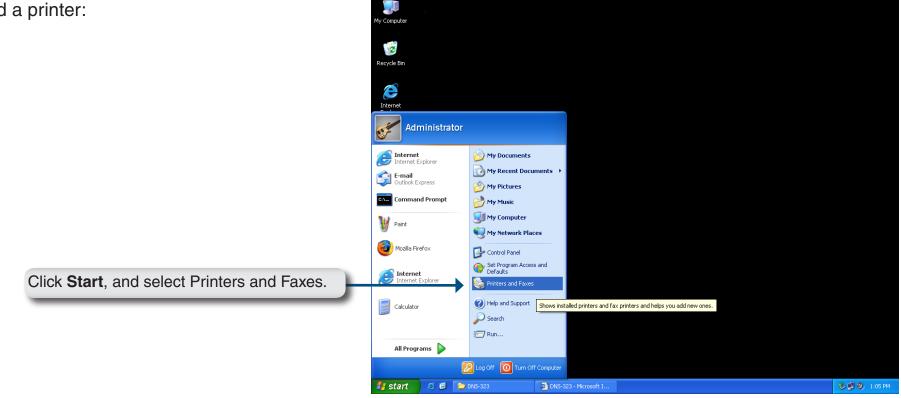
SCHEDULING	SETTINGS :
Login Method	O Account      Anonymous
	User Name ****
	Password •••••
Туре	File 🔽
URL	Test Local
Save To	Browse
When	Date : 01 •/ 07 •/ 2001 • Time : 04 •: 08 •
Recurring Backup	None 🔽 00 🔽: 00 🔽
	Incremental Backup (Only for local backup)

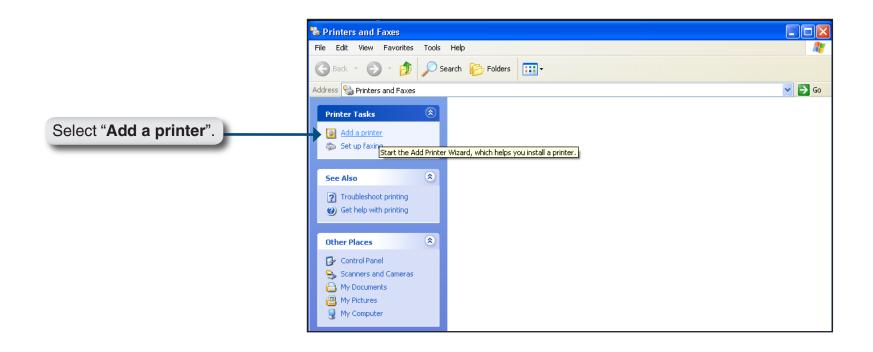
- Local Click Local to set the source file or folder from one of the internal drive volumes. Browse to the file or folder, and click Ok to accept the network path.
- Save To Enter a valid destination drive on the DNS-343, or click Browse and browse to the destination.
- When Enter the date and time you want the scheduled backup or download to occur.
- **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 DNS-343 compare identical file names at the source and destination. Files will only be overwritten if the source file is more recent.

## **USB** Print Server

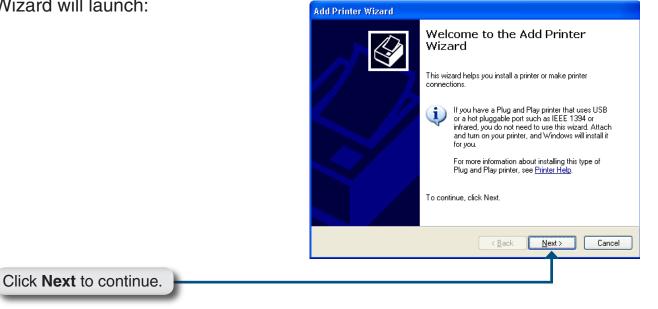
The DNS-343 features a built-in USB print server, giving users the ability to share a printer on their local network. Connect a USB printer to the USB port on the back of the DNS-343. It is important to ensure that all the printer's drivers have been installed on the computer(s) you want to print from.

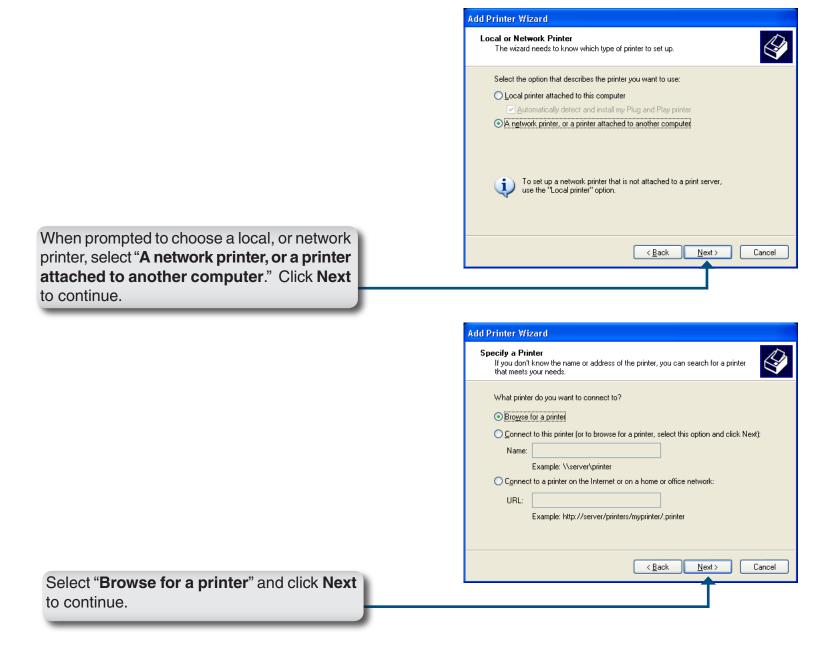
To add a printer:





The Windows® Add Printer Wizard will launch:



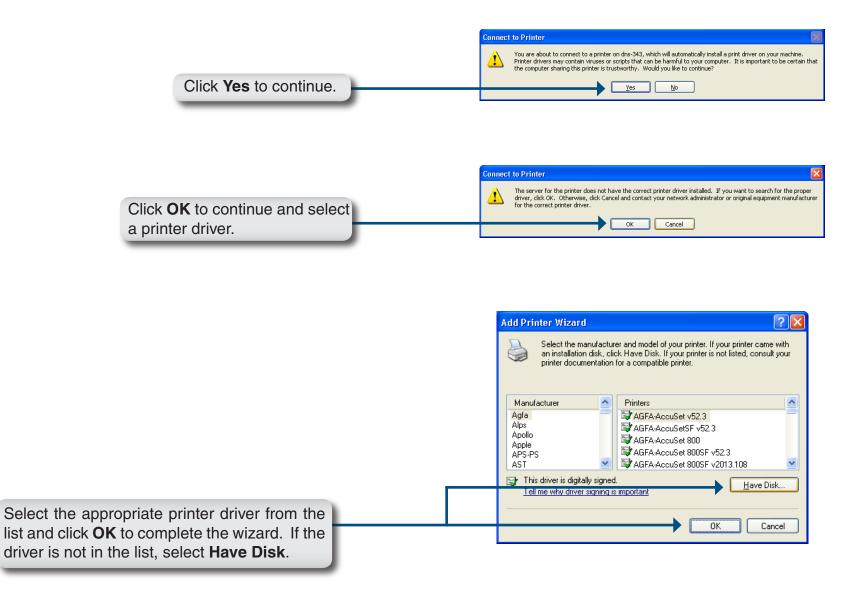


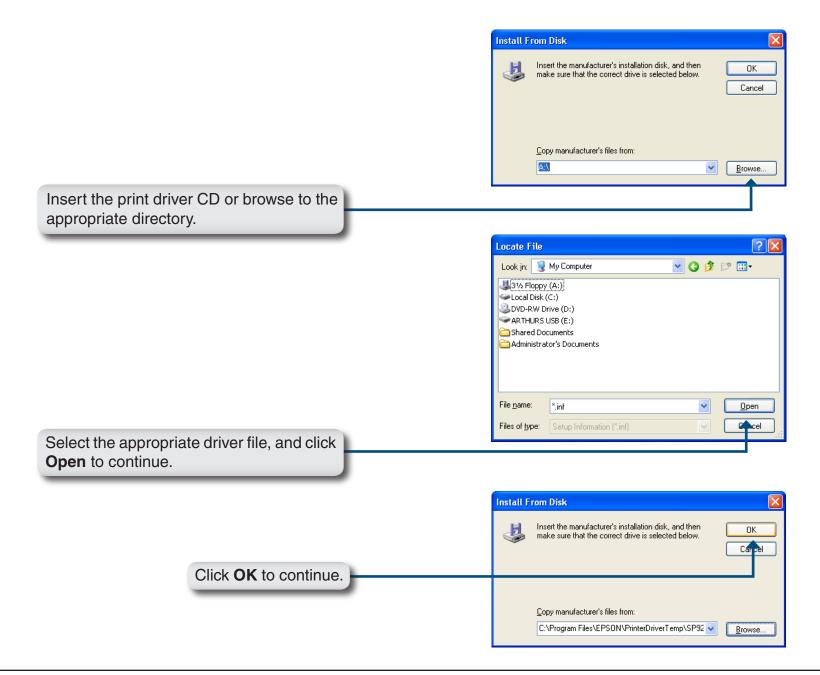
	Add Printer Wizard
	Browse for Printer When the list of printers appears, select the one you want to use.
Double-click " <b>DNS-343</b> " from the Shared Printers list to expand the tree.	Printer: Shared printers: Microsoft Windows Network WORKGROUP DNS-343 Printer information Comment: Status: Documents waiting:
	< <u>Back</u> Next > Cance

Printer: \\dns-323\lp	
Shared printers:	
₩ Microsoft Windows Network 通 WORKGROUP 眞 DNS-343	
هِ ا	USB Printer
Printer information Comment: USB Printer	
Status: Ready	Documents waiting: 0

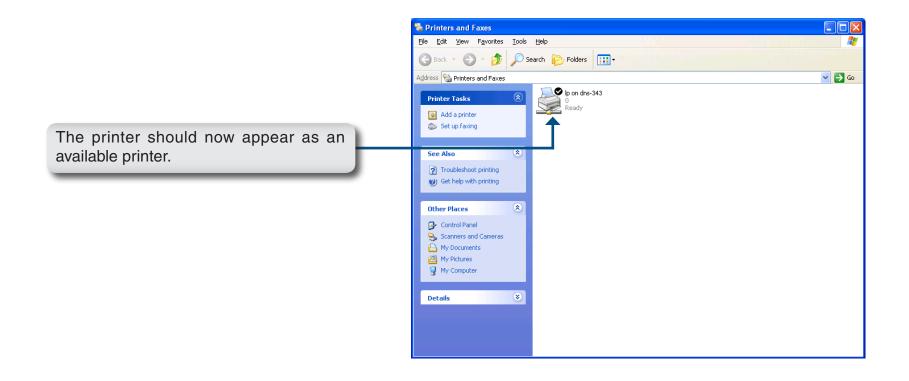
Select the available USB printer, and click **Next** to continue.

The following printer driver messages will appear:





	Add Printer Wizard
	Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for a compatible printer.
	Printers
	EPSON Stylus Photo 925
	This driver is digitally signed. <u>I ell me why driver signing is important</u> OK Cancel
Verify the driver is correct, and click <b>OK</b> to continue.	
	Add Printer Wizard
	Completing the Add Printer           Vou have successfully completed the Add Printer Wizard.           You specified the following printer settings:           Name:         Ip on dns-343           Default:         Yes           Location:         Comment:
	To close this wizard, click Finish.
	< <u>B</u> ack <b>Finish</b> Cancel
The wizard will install the printer drivers, and return a completion screen. Click <b>Finish</b> .	



# **Storing non-English Character Files**

By default the DNS-343 supports Unicode which is an industry standard allowing computers to consistently represent and manipulate text expressed in most of the world's writing formats.

# **Replacing or Adding a New Hard Drive**

It is recommended that you backup your important files before replacing or adding a new hard drive to the DNS-343.

#### **Replacing a Hard Drive:**

Please make sure the power is off before replacing a hard drive. After you install the new drive, turn on the DNS-343 and then connect to the Web UI. The DNS-343 will prompt you to format the new drive. Refer to page 15.

#### Adding a New Hard Drive:

The DNS-343 is able to work with one single hard drive, two, three, and four hard drives. Please make sure the power is off before installing a new hard drive.

After you install the new drive(s), turn on the DNS-343 and then connect to the Web UI. The DNS-343 will prompt you to format the new drive(s). Refer to page 15.

Note: Formatting a hard drive will erase the data stored on the hard drive. Please backup important data before formatting a hard drive.

# **Contacting Technical Support**

U.S. and Canadian customers can contact D-Link technical support through our web site or by phone.

Before you contact technical support, please have the following ready:

- Model number of the product (e.g. DNS-343)
- Hardware Revision (located on the label on the bottom of the device (e.g. rev A1))
- Serial Number (s/n number located on the label on the bottom of the device).

You can find software updates and user documentation on the D-Link website as well as frequently asked questions and answers to technical issues.

For customers within the United States:

Phone Support: (877) 453-5465

Internet Support: http://support.dlink.com For customers within Canada:

Phone Support: (800) 361-5265

Internet Support: http://support.dlink.com

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Version 2, June 1991

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### Warranty

Subject to the terms and conditions set forth herein, D-Link Systems, Inc. ("D-Link") provides this Limited Warranty:

- Only to the person or entity that originally purchased the product from D-Link or its authorized reseller or distributor, and
- Only for products purchased and delivered within the fifty states of the United States, the District of Columbia, U.S. Possessions or Protectorates, U.S. Military Installations, or addresses with an APO or FPO.

#### **Limited Warranty:**

D-Link warrants that the hardware portion of the D-Link product described below ("Hardware") will be free from material defects in workmanship and materials under normal use from the date of original retail purchase of the product, for the period set forth below ("Warranty Period"), except as otherwise stated herein.

- Hardware (excluding power supplies): One (1) year
- Free Technical Support Basic Installation: Ninety (90) days

The customer's sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link's option, to repair or replace the defective Hardware during the Warranty Period at no charge to the original owner or to refund the actual purchase price paid. Any repair or replacement will be rendered by D-Link at an Authorized D-Link Service Office. The replacement hardware need not be new or have an identical make, model or part. D-Link may, at its option, replace the defective Hardware or any part thereof with any reconditioned product that D-Link reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. Repaired or replacement hardware will be warranted for the remainder of the original Warranty Period or ninety (90) days, whichever is longer, and is subject to the same limitations and exclusions. If a material defect is incapable of correction, or if D-Link determines that it is not practical to repair or replace the defective Hardware, the actual price paid by the original purchaser for the defective Hardware will be refunded by D-Link upon return to D-Link of the defective Hardware. All Hardware or part thereof that is replaced by D-Link, or for which the purchase price is refunded, shall become the property of D-Link upon replacement or refund.

#### Limited Software Warranty:

D-Link warrants that the software portion of the product ("Software") will substantially conform to D-Link's then current functional specifications for the Software, as set forth in the applicable documentation, from the date of original retail purchase of the Software for a period of ninety (90) days ("Software Warranty Period"), provided that the Software is properly installed on approved hardware and operated as contemplated in its documentation. D-Link further warrants that, during the Software Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects. The customer's sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link's option, to replace the non-conforming Software (or defective media) with software that substantially conforms to D-Link's functional specifications for the Software or to refund the portion of the actual purchase price paid that is attributable to the Software. Except as otherwise agreed by D-Link in writing, the replacement Software is provided only to the original licensee, and is subject to the terms and conditions of the license granted by D-Link for the Software. Replacement Software will be warranted for the remainder of the original Warranty Period and is subject to the same limitations and exclusions. If a material non-conformance is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to replace the non-conforming Software (and all copies the original licensee for the non-conforming Software will be refunded by D-Link; provided that the non-conforming Software (and all copies thereof) is first returned to D-Link. The license granted respecting any Software for which a refund is given automatically terminates.

#### Non-Applicability of Warranty:

The Limited Warranty provided hereunder for Hardware and Software portions of D-Link's products will not be applied to and does not cover any refurbished product and any product purchased through the inventory clearance or liquidation sale or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product and in that case, the product is being sold "As-Is" without any warranty whatsoever including, without limitation, the Limited Warranty as described herein, notwithstanding anything stated herein to the contrary.

#### Submitting A Claim:

The customer shall return the product to the original purchase point based on its return policy. In case the return policy period has expired and the product is within warranty, the customer shall submit a claim to D-Link as outlined below:

- The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow D-Link to confirm the same, along with proof of purchase of the product (such as a copy of the dated purchase invoice for the product) if the product is not registered.
- The customer must obtain a Case ID Number from D-Link Technical Support at 1-877-453-5465, who will attempt to assist the customer in resolving any suspected defects with the product. If the product is considered defective, the customer must obtain a Return Material Authorization ("RMA") number by completing the RMA form and entering the assigned Case ID Number at https://rma.dlink.com/.

- After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping
  package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside
  of the package. Do not include any manuals or accessories in the shipping package. D-Link will only replace the defective
  portion of the product and will not ship back any accessories.
- The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery ("COD") is allowed. Products sent COD will either be rejected by D-Link or become the property of D-Link. Products shall be fully insured by the customer and shipped to D-Link Systems, Inc., 17595 Mt. Herrmann, Fountain Valley, CA 92708. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via UPS Ground or any common carrier selected by D-Link. Return shipping charges shall be prepaid by D-Link if you use an address in the United States, otherwise we will ship the product to you freight collect. Expedited shipping is available upon request and provided shipping charges are prepaid by the customer. D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link's reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.

#### What Is Not Covered:

The Limited Warranty provided herein by D-Link does not cover:

Products that, in D-Link's judgment, have been subjected to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tampered with, defaced or removed; Initial installation, installation and removal of the product for repair, and shipping costs; Operational adjustments covered in the operating manual for the product, and normal maintenance; Damage that occurs in shipment, due to act of God, failures due to power surge, and cosmetic damage; Any hardware, software, firmware or other products or services provided by anyone other than D-Link; and Products that have been purchased from inventory clearance or liquidation sales or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product.

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#### **CE Mark Warning:**

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

#### **FCC Statement:**

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

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

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