USER MANUAL DNS-323

VERSION 1.2







Table of Contents

Product Overview	3
Package Contents	3
System Requirements	3
Introduction	
Features	5
Hardware Overview	
Front View	6
Rear Panel (Connections)	7
Installation	8
Hardware Setup	8
Configuration	11
Easy Search Utility	11
Getting Started	12
Web UI	17
Setup	
Wizard	
LAN	22
Device Settings	23
Advanced	24
Users and Groups	24
Quotas	
Network Access	
FTP Server	
UPnP AV Server	
iTunes Server	

DHCP Server
Tools
Admin
Time
System
Firmware40
E-Mail Alerts41
Power Management44
RAID45
DDNS
Status48
Device Information48
Support49
Mapping a Drive50
Download Scheduling53
Schedule Downloads55
Scheduling Settings56
USB Print Server57
Storing non-English Character Files65
Replacing or Adding a New Hard Drive67
Contacting Technical Support68
Warranty69
Registration74

Product Overview Package Contents

- D-Link DNS-323 2-Bay Network Storage Enclosure
- CD-ROM with Manual and Software
- Quick Installation Guide
- Power Adapter (12V 3A, 5V 3A)
- Power Cable Clip
- Cat5 Ethernet Cable



Note: Using a power supply with a different voltage than the one included with the DNS-323 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
- 3.5" SATA Hard Drive(s)
- Windows[®] XP (with Service Pack 2) or Vista[™]

Introduction

The D-Link DNS-323 2-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 two 3.5" SATA hard drives of any capacity¹, creates a central network point for backing up valuable files. The built-in RAID 1² mirroring technology protects these files from drive failure. Other options such as Standard, JBOD, and RAID 0 are also available.

The DNS-323 shares files over the Internet via the built-in FTP server³. 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-323 can be used to stream photos, music, and videos to UPnP AV compatible network media players⁴.

The included CD contains D-Link's Easy Search Utility. This utility allows you to locate the DNS-323 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-323 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-323 is an organized solution for any network. Free up drive space on computers and centralize data on your network with the DNS-323 2-Bay Network Storage Enclosure!

1 Hard Drive(s) not included.

2 RAID 1 mirroring requires the use of 2 internal SATA drives.

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

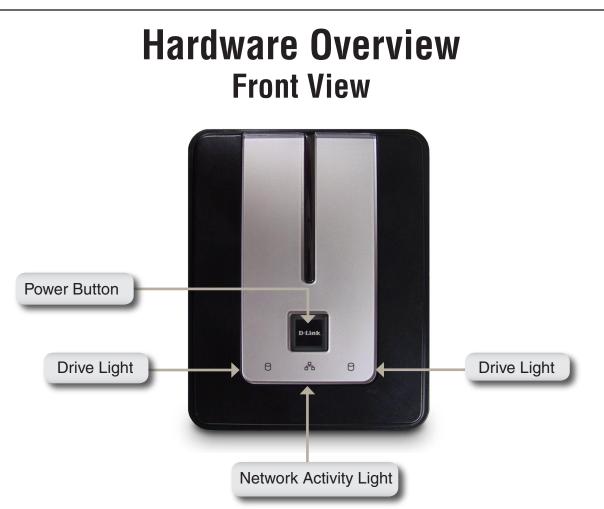
4 D-Link cannot guarantee full compatibility or proper playback with all codecs. Playback capability depends on the codec support of the UPnP™ AV media player.

Features

The DNS-323 is designed for easy installation and allows remote access to important data via the LAN or WAN:

- Two Hard Drive Bays for 3.5" SATA Hard Drives of Any Capacity¹
- Simplified Hard Drive Installation Process No Tools Required
- Four Hard Drive Configurations: Standard, JBOD (Linear), RAID 0, and RAID 1²
- High Performance Gigabit Ethernet Connectivity (Up to 23/15MBps or 184/120Mbps Read/Write)³
- Built-in FTP Server for File Access from Over the Internet⁴
- Scheduled Downloads from Web or FTP Sites
- Full or Incremental Backups
- Real Time Backups With the Included Backup Software
- Users and Groups Can Be Assigned to Folders with Read or Read/Write Permissions
- Quotas For Users and Groups
- Automatic E-Mail Notifications
- Power Management for Conserving Energy and Extending Hard Drive Life
- UPnP AV Server for Streaming Music, Photos, and Video to Compatible Media Players⁵
- iTunes[®] Software will be able to automatically find and play music directly from the DNS-323
- Built-in USB Print Server for printing from any PC on the Network
- D-Link Easy Search Utility
- Configurable by Web Browser

- 1 Hard Drive(s) not included.
- $2\;$ RAID 1 mirroring requires the use of 2 internal SATA drives.
- 3 Speed results will vary depending on the benchmark utility, hard drive configuration, and the network environment used for testing.
- 4 Note that use of an FTP Server to access files over the Internet does not provide for secure or encrypted transmissions.
- 5 D-Link cannot guarantee full compatibility or proper playback with all codecs. Playback capability depends on the codec support of the UPnPTM AV media player.



Power Button:

Press once to power on the DNS-323. Press and hold the button until it begins to blink to power down the DNS-323.

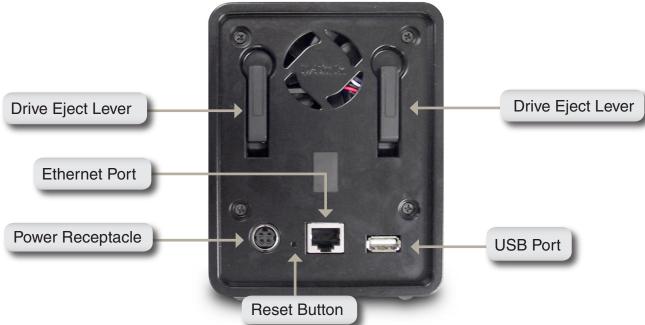
Drive Lights:

These lights will be solid BLUE when 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.

Network Activity Light:

The Activity Light will be solid BLUE when there is an Ethernet connection. It will blink to indicate LAN traffic.

Rear Panel (Connections)



Power Receptacle:

The 12V 3A / 5V 3A power supply connects here.

Ethernet Port:

A Gigabit Ethernet port that connects the DNS-323 to a network.

USB Port:

USB Print Server port for connecting a USB printer.

Drive Eject Lever:

Use the provided levers to eject the hard drives. The front panel must be removed before ejecting the drives.

Reset Button:

A pinhole button located beside the Ethernet socket is used to reset the system or restore the factory default settings. *Note:* After resetting the unit's configuration you will still have access to the data on your hard drives.

Installation Hardware Setup

This section provides unpacking and installation information for the DNS-323. Open the shipping carton for the DNS-323 and carefully unpack its contents. To install the DNS-323 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 bays.



3. Insert a 3.5" SATA hard drive into each available drive bay. Make sure to align the drive connectors to the SATA connectors on the bottom edge inside the drive bay of the DNS-323. Gently push the drive in until it connects. When a drive is inserted properly, you will feel it "seat" into the connector. Some hard drives that are thin or oddly shaped may need to be guided carefully into position. If a drive is not properly seated, the light will not illuminate after powering on the device.



4. Attach the faceplate to the front of the device.



5. Connect an Ethernet cable to the available Ethernet port. This cable should connect the DNS-323 to your local network via a router or switch, or directly to a computer for configuration.

6. Connect the power adapter to the power receptacle.

7. Connect a USB printer. (Optional)





Configuration Easy Search Utility

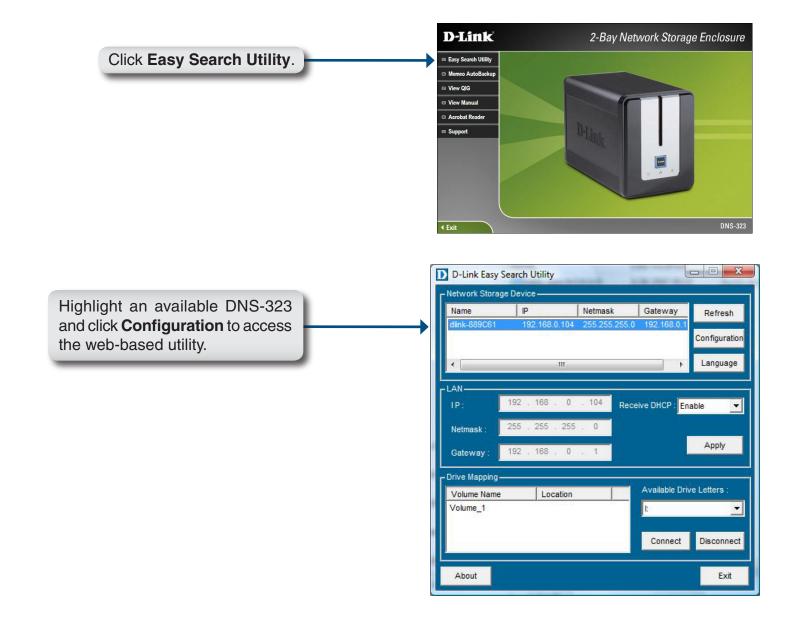
When first powered on, during the initial boot sequence, the DNS-323 will wait to be assigned an IP address via DHCP. If it does not receive a DHCP assigned IP address, by default it will have a self-assigned IP address of 192.168.0.32. It is recommended to use the included D-Link Easy Search Utility when accessing and configuring the DNS-323 for the first time. If you want to change the IP address before logging in or are unable to connect to the DNS-323 IP address, you can use the Easy Search Utility provided on the product CD to locate the device on your network and make any needed changes.

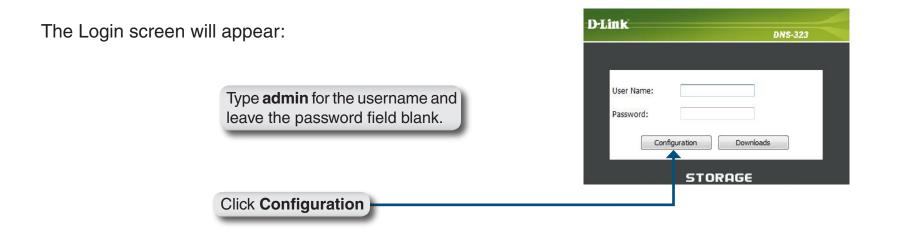
Network Storage Device	The Easy Search Utility displays any DNS-323 devices it detects on the network here.
Refresh	Refreshes the device list.
Configuration	Click Configuration to access the Web based configuration of the DNS-323.
LAN	Configure the LAN Settings for the DNS-323 here.
Apply	Click Apply to save changes to the LAN Settings.
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.
Exit	Click Exit to close the utility.



Getting Started

To run the Easy Search Utility, insert the DNS-323 CD into your CD-ROM drive:



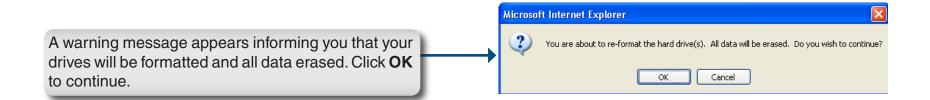


When logging into the DNS-323 for the first time, you will be asked to choose a drive configuration and format the drives. There are four options: **Standard**, **JBOD**, **RAID 0** and **RAID 1**. Standard configures each disk as a separate volume, while JBOD combines both disks into a single volume. See page 45 for more details on using the RAID configurations.

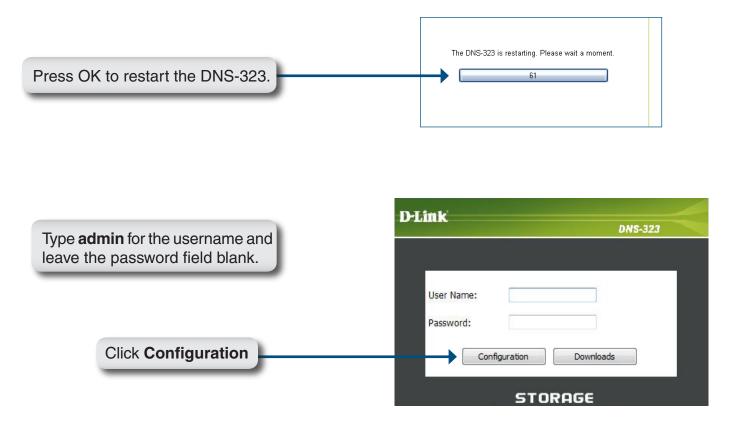
Note: All data will be erased during the format process.

When prompted to configure the Hard Drive Settings:

	🧭 DNS-323 - V	Vindows Internet Explorer		
	6 http://192.1	68.0.100/web/formatHD/ra	aid_wizard1.asp	
	D-Link		DNS	-323
	HARD DRI	VE CONFIGURATION:		
elect the type of hard drive configuration, Standard, 30D, RAID 0 or RAID 1.	Sel	© RAI	ndard (Individual Disks) D (Linear - Combines B D 0 (Striping - Best Pe D 1 (Mirroring - Keeps I	loth Disks) rformance)
	Vendor	Model	Serial Number	Size
	Hitachi	HDS721010KLA330	GTJ000PAG2KL2C	1000 GB
	Hitachi	HDS721010KLA330	GTJ000PAG2GV5C	1000 GB
				Next
		Copyright 2004-2006	D-Link Systems, Inc.	
		Internet Protected Mo	ode: On	100% -



When formatting of the drive completes, the DNS-323 will prompt the user to restart. A restart countdown screen will appear, and when the restart is complete, the login screen will appear:



Note: After logging in to the DNS-323 for the first time it is recommended to add a password to the admin account. (See p. 37 for details.)

After logging in, you will be redirected to the DNS-323 web UI:



Web UI

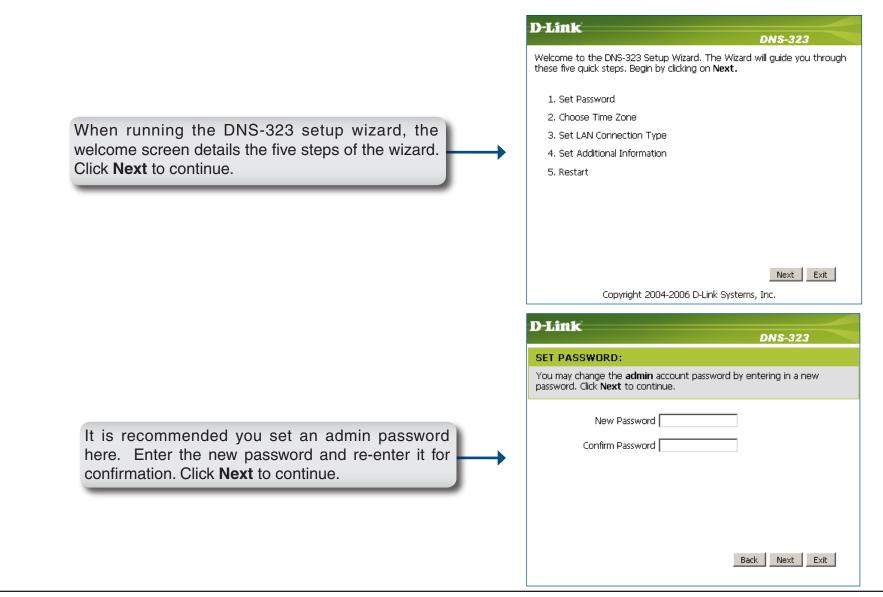
The DNS-323 web UI defaults to the *Setup* page. The main categories for configuration are located in the menu tabs at the top of the page. These categories include:

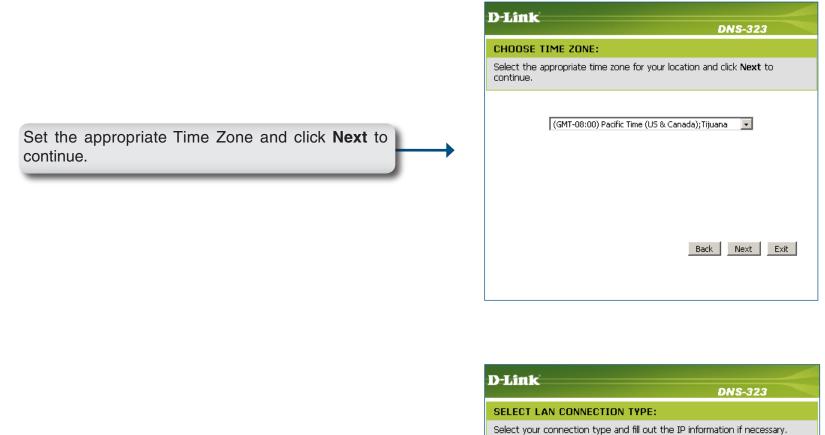
- **Setup** Contains the DNS-323 setup wizard, as well as the LAN configuration settings and device settings.
- Advanced Allows the DNS-323 administrator to configure users, groups of users and their storage quotas. The UPnP AV server, iTunes server, FTP server and DHCP server settings are all contained here as well.
- Tools Contains configuration options for the Admin account, the time and system settings, and e-mail alerts. Power management options and RAID configuration options are also available from the Tools page.
- **Status** Contains a summary of DNS-323 information.
- **Support** Contains the DNS-323 help files.
- **Logout** Clicking this button will log the admin out and end the DNS-323 configuration session.

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

Setup Wizard

The DNS-323 has a setup Wizard that allows you to quickly configure some of the basic device settings.





Edit or change the DNS-323 LAN information, or to keep the current settings, click **Next** to continue.

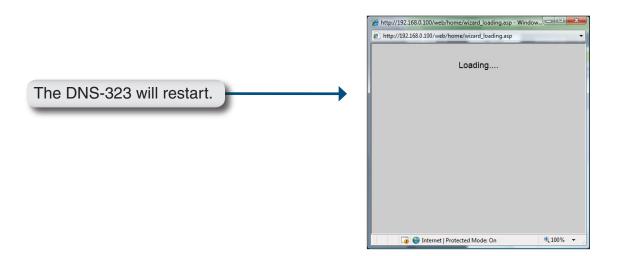
SELECT LAN CONNECTION TYPE: Select your connection type and fill out the IP information if necessary. Click Next to continue. O DHCP Client © Static IP	
Click Next to continue.	
IP Address 192.168.0.32	
Subnet Mask 255.255.255.0	
Gateway IP Address 192.168.0.1	
DNS1	
DNS2	
Back Next Exit	

Enter a workgroup, name, and description for the DNS-323, or leave the default values and click Next to continue.

D-Link	
	DNS-323
Set Additional Information:	
Enter your Workgroup, Name, and Descriptio Otherwise you may accept the default values	
Workgroup workgroup Name dink-AD04C1 Description DNS-323	Back Next Exit

When the wizard completes, click Back to go back and make changes or click Restart to restart the DNS-323 and save the configuration. Back Restart to save the current settings and restart the DNS-323. Back Restart Ext Copyright 2004-2006 D-Link Systems, Inc.

D-Link



	D-Link DNS-323
hen the login prompt appears, login using the new Iministrator password.	User Name: Password: Configuration Schedule Downloads STORAGE
	Copyright 2004-2006 D-Link Systems, Inc.

LAN

The Local Area Network settings for the DNS-323 are configured on the LAN page.

- Link Speed The LAN Link Speed is set to Auto by default, but can be manually set to 100Mbps or 1000Mbps.
- DHCP Client Selecting DHCP Client will cause the DNS-323 to obtain an IP address from the local DHCP server.
 - Static IP Selecting Static IP requires you to assign the IP information for the DNS-323 manually.

-323	SETUP AD	VANCED	TOOLS	STATUS	SUPPORT	LOGOUT
RD CE	LAN SETTINGS : Select your connection ty Save Settings Dor LAN SETTINGS :	rpe and fill out the n't Save Settings	IP information if	necessary.		Helpful Hints A Static IP is recommende if you will be using the FT server.
	Speed 100 Mbps Link Speed Auto	© 100 © 1000	Apply		21	
	Link Speed Auto DHCP Client	◎ 100 ◎ 1000	Apply		_	
	Link Speed 💿 Auto	© 100 © 1000			-	
	Link Speed Auto O DHCP Client Static IP)		-	
	Link Speed Auto DHCP Client Static IP IP Address :	192, 168.0, 100 255, 255, 255, 0)		_	
	Link Speed Auto DHCP Client Static IP IP Address : Subnet Mask :	192, 168.0, 100 255, 255, 255, 0)		-	

Device Settings

The device settings page allows you to assign a workgroup, name and description to the DNS-323.

- Workgroup Assigns a workgroup name to the DNS-323.
 - Name Assigns a unique name to the DNS-323. The name can be used to access the device from a web browser instead of the IP address, for example, http://dlink-xxxxx.

This is useful if there is more than one DNS-323 on the network. By default the device name is dlink-xxxxx, where xxxxx is the last six digits of the MAC address.

Description Assigns a device description to the DNS-323.

D-Lin	R					
NS-323	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT	LOGOUT
AN DEVICE	DEVICE SETT Enter a workgro Save Settings	Doup, name, and descripting				DEVICE: You can access this device by using the name in your web-browser For example: DNS-323 .
	DEVICE SETT	INGS :				
	Workgroup	workgroup				
	Name	DNS-323				

Advanced Users and Groups

The DNS-323 supports up to 64 unique users. The users can be added to a group, or used individually. The users and groups are created to allow access to specific folders on the DNS-323, via FTP or the local network.

User and Group Creation	This section contains required attributes for a new user, including	D-Linl	k					
	group, user name and password.	DNS-323 //	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT	LOGOUT
	Select User or Group and enter a user or group name, password, and	USERS / GROUPS QUOTAS NETWORK ACCESS FTP SERVER UPnP AV SERVER	Create new grou	UPS: their passwords. Assig ps that users can be a OUP CREATION :		desired.		Helpful Hints User passwords mus at least five charact long. A user name ca not be the same as a group name.
Select Group	then click Add . Select a group from the drop-down menu.	ITUNES SERVER	User Confirm Password	up	Add			
Users in Group	Users that are assigned to the selected group will be listed here.		GROUP SETTIN	NGS:		lect Group Please selec	tagroup 🔻	
List of All Users	Displays the list of users that you may assign to the selected group.			0	Add >>			
	To add a user to the selected group, click the user and then click Add >>.				All accounts			
	To remove a user from the group, click the user and then click << Remove.		USER LIST : No. User Nam 1 vista		roup Name	Change Pass	sword 🚺: Delete	

Quotas

The DNS-323 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 QuotaUser quotas are displayed here.SettingsQuotas can be edited by clicking
on the notepad icon.
- **Group Quota** Settings Group quotas are displayed here. 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.

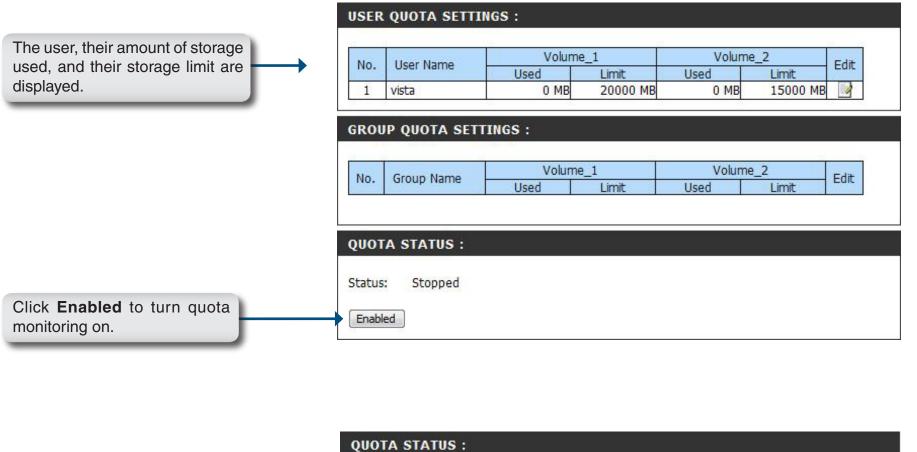
D T Cast									
D-Link	-								
DNS-323	SE	тир /	ADVANCED	TOOLS	ST/	TUS	SUPPORT		LOGOUT
USERS / GROUPS QUOTAS NETWORK ACCESS FTP SERVER UPnP AV SERVER ITunes SERVER	Assign	AS SETTINGS hard drive space QUOTA SETT User Name	quotas for users	me_1	10000	me_2	Edit	The fini	Hpful Hints e hard drives must be shed synchronizing fore quotas can be set.
DHCP SERVER	1 GROU	vista IP QUOTA SET		Limit nited	Used unlin	Limit hited			
	No.	Group Name	Volut Used	me_1 Limit	Volur Used	ne_2 Limit	Edit		
	QUOT Status Enable								

Configuring Quotas

By default, all users and groups are displayed on the Quota Settings page. Users and groups are automatically listed on this page, and cannot be deleted. The default quota setting is "Unlimited".

To add a quota:

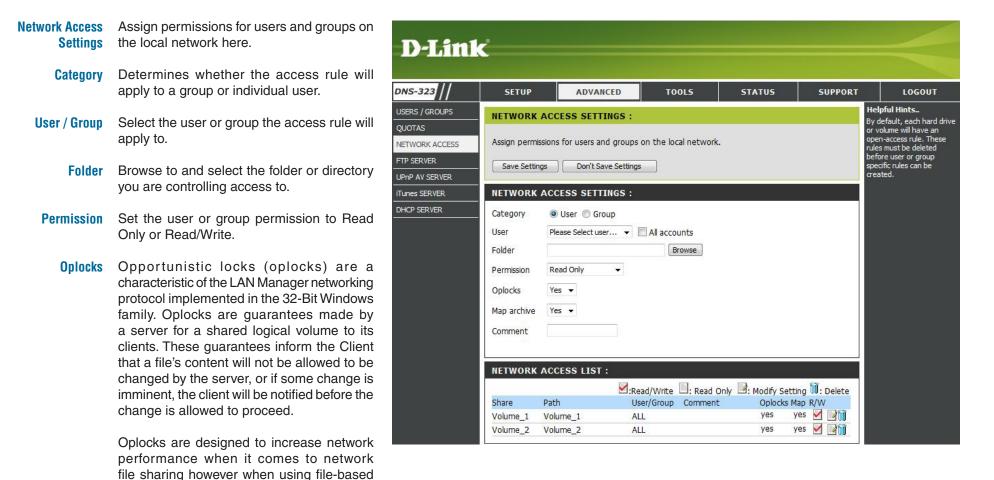
	Edit
No. User Name Volume_1 Volume_2 Used Limit Used Limit 1 vista unlimited unlimited	– Edit
No. User Name Used Limit Used Limit unlimited unlimited unlimited	Edit
lick the notepad icon of the user ou want to add a quota to.	- Edit
lick the notepad icon of the user ou want to add a quota to.	
lick the notepad icon of the user ou want to add a quota to.	
Assign hard drive space quotas for users or groups.	
USER QUOTA SETTINGS :	
Set a quota amount (MB) for the	
volume_1 Quota Amount 20000 MB	
Volume 2 Quota Amount 15000 MB	
Volume_2 Quota Amount 15000 MB	
Volume_2 Quota Amount 15000 MB	
	Edit





Network Access

The Network Access settings allow you to assign 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.



database applications it is recommended to

set the share oplocks to No(off).

Section 3 - Configuration

By default Vista has Oplocks enabled and can not be disabled. If you are having network performance issues with applications sharing files from the DNS-323 you may try to improve performance by setting Oplocks to **No(off)**.

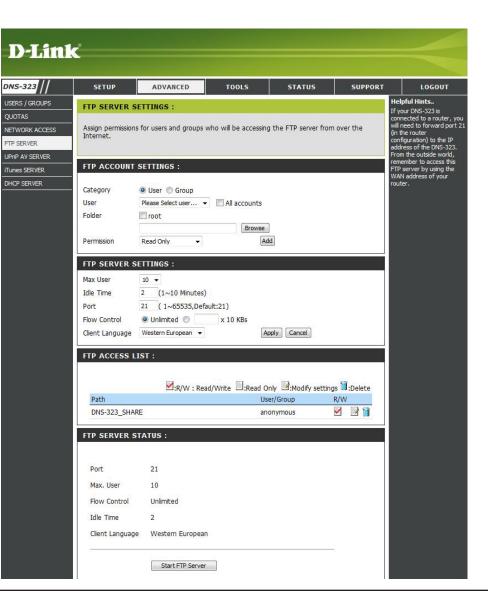
- Map Archive When enabled, the file attribute "Archive" will be copied as the file is being stored on the DNS-323. Certain backup software attach this attribute to files that are being stored as backups.
- **Comment** Enter a comment for reference or description of the rule.
- Network Access List Lists all defined access rules.

FTP Server

The DNS-323 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 DNS-323 at a time.

FTP Server Settings	This section contains the configuration settings for the DNS-323 FTP Server.
FTP Access List	The FTP access for users and groups can be added and edited here.
FTP Server	The current settings and status of the

- Status DNS-323 FTP Server are displayed here.
- **Category** Determines whether the FTP server rule will apply to an individual user or a group.
- **User / Group** Select the group or user the FTP server rule will apply to.
 - **Folder** Browse to and select the folder or directory you are granting FTP access to. Select **root** to grant access to all volumes.
- Permission Set the user or group permission to Read Only or Read/Write.



FTP Server Settings

- Max User Sets the maximum amount of users that can connect to the FTP server.
- Idle Time Sets the amount of time a user can remain idle before being disconnected.
 - **Port** Sets the FTP port. Default is 21.
- Flow Control Allows you to limit the amount of bandwidth available for each user.
- Client Language Most standard FTP clients like Windows FTP, only support Western European codepage when transferring files. Northern European, Central European, Traditional and Simplified Chinese as well as Cyrillic codepage support has been added for non standard FTP clients that are capable of supporting these character sets.
- FTP Access List Lists all defined FTP Rules.

FTP SERVER S	ETTINGS :		
Max User	10 🔻		
Idle Time	2 (1~10 Minutes)		
Port	21 (1~65535,Defau	lt:21)	
Flow Control	🖲 Unlimited 🔘	x 10 KBs	
Client Language	Western European 👻	Apply Cancel	
FTP ACCESS L		/Write :Read Only :Modify	settings 🗊 :Delete
Path		User/Group	R/W
DNS-323_SHA	RE	anonymous	M 📝 🧻

If you are behind a router, you will need to forward the FTP port from the router to the DNS-323. Additional filtering and firewall settings may need to be modified on your router to allow FTP Access to the DNS-323 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-323 FTP ser rule.	ver	Product Page: WBR-2310				н		
IP Address	Enter the IP address of the DNS-323.		WBR-2310 //		SETUP	ADVANCED		TOOLS	
Public Port	Enter the public FTP port. default, the port is 21.	Ву	VIRTUAL SERVER PORT FORWARDING APPLICATION RULES	The to ar		n allows you to define a dress and Private LAN po			
Private Port	Enter the private FTP port. default, the port is 21.	Ву	WEBSITE FILTER FIREWALL SETTINGS ADVANCED WIRELESS		ve Settings Don't S	ER RULES			
Traffic Type	Set the traffic type to TCP.		ADVANCED NETWORK		Name DNS-323_FTP IP Address 192.168.0.32	< Application Name << Computer Name		Port 21 Private 21	Traffic Type 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).

IP Address

Hardware Version: A1 Firmware Version: 1.01

SUPPORT Helpful Hints.. Check the Application

Name drop down menu fo

a list of pre-defined applications that you can elect from. If you select one of the pre-defined pplications, click the arrov itton next to the drop down menu to fill out the ppropriate fields

You can select your

computer from the list of DHCP clients in the Computer Name drop wn menu, or enter the 1

ddress manually of the computer vou would like to pen the specified port to

schedule to a Virtual Server

Rule, you must first define

a schedule on the Tools>Schedules page

In order to apply a

STATUS

Schedule

~

V

Always

Always

TCP 🔽

Public

Private

~

<< Application Name

<< Computer Name

vour router for redirection

eature is useful for hosting

UPnP AV Server

The DNS-323 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 DNS-323 will be automatically detected by UPnP AV compatible media players on your local network.

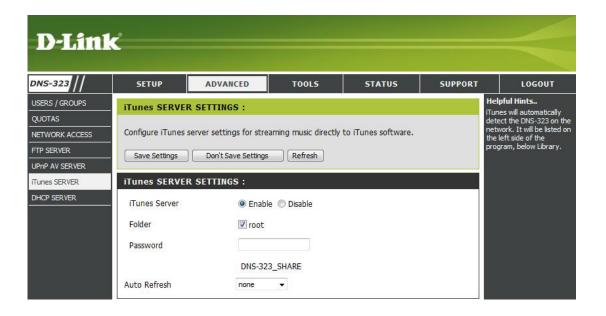
- UPnP AV Select Enable or Disable to enable Server or disable the DNS-323 UPnP AV server.
 - **Folder** Specifies the folder or directory that will be shared by the UPnP AV server. Select **root** to share all files on all volumes, or click **Browse** to select a specific folder.
- Auto Refresh Set the device to auto refresh your media every 5 minutes up to every 24hrs.



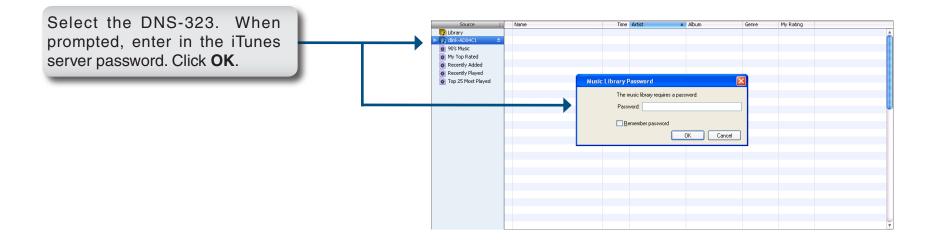
iTunes Server

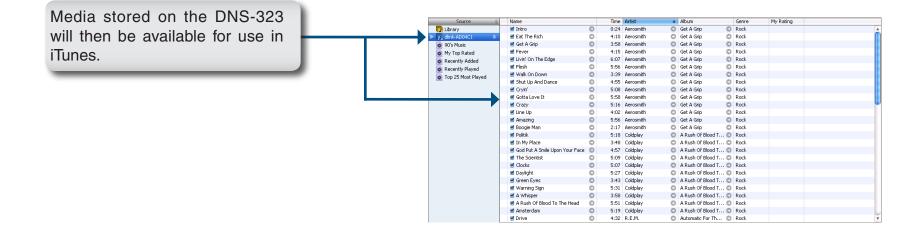
The DNS-323 features an iTunes Server. This server provides the ability to share music and videos to computers on the local network running iTunes. If the server is enabled, the DNS-323 will be automatically detected by the iTunes program and the music and videos contained in the specified directory will be available to stream over the network.

- iTunes Server Select Enable or Disable to enable or disable the DNS-323 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 Set the device to auto refresh your media every 5 minutes up to every 24hrs.



After enabling the iTunes server on the DNS-323, launch iTunes. When iTunes detects the DNS-323, select it and you will be prompted to enter the iTunes server password if required.





DHCP Server

The DNS-323 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-323 DHCP Server.	D-Link	
Starting IP Address	Enter the starting IP address for the range of addresses assigned by the DHCP server.	DNS-323 SETUP ADVANCED TOOLS STATUS SUPPORT USERS / GROUPS DHCP SERVER SETTINGS : Enable the DHCP server to distribute IP addresses on the network. Image: Server server to distribute IP addresses on the network.	LOGOUT Helpful Hints If you already have a router assigning DHCP to the network, do not
Ending IP Address	Enter the ending IP address for the range of addresses assigned by the DHCP server.	NETWORK ACCESS FTP SERVER UPnP Av SERVER DHCP SERVER DHCP SERVER DHCP Server : © Enabled © Disabled	enable this feature. The DHCP server should be used when no other DHCP server is available.
Lease Time	Sets the duration of time that an IP address will remain assigned to a device.	Starting IP Address : 192.168.0.2 Ending IP Address : 192.168.0.254 Lease Time : 1 Week * DHCP CLIENT LIST : Host name IP Address MAC Address Expired Time	

Tools Admin

The Admin menu allows you to set a password for the admin account. It is recommended to set an admin account password when first configuring the DNS-323.

- **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.

D-Link	c					
DNS-323	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT	LOGOUT
ADMIN PASSWORD	ADMINISTRA	TOR SETTINGS :				Helpful Hints
TIME SYSTEM FIRMWARE	Set the administr	For security reasons, it is recommended that you change the Password for the Administrator . Be sure to write down the new				
E-MAIL ALERTS	ADMINISTRA	TOR :			9	Passwords to avoid having to reset the DNS-323 in the event that they are
RAID	Use	r Name : admin				forgotten.
DDNS	Pa	ssword :				
	New Pa	ssword :				
	Confirm Pa	ssword :				

Click Save Settings to save the new password.

Time

The DNS-323 Time page contains several different options for setting the device's internal clock. It is important that accurate time is set so that scheduled backups and downloads will be accurate.

NTP Server	Network Time Protocol (NTP) synchronizes the DNS-323 with an Internet time server.	D-Linl	Ċ					<
		DNS-323	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT	LOGOUT
	D-Link provides two time servers for your convenience. Choose the one closest to your location.	ADMIN PASSWORD TIME SYSTEM FIRMWARE	100 St 100 St 100 St 10	ME SETTINGS : m time by synching with I	NTP, synching with y	our computer, or man	ually entering	Helpful Hints Using the NTP option will guarantee the time to be accurate provided that the DNS-323 is connected to the Internet and your DNS
Time Zone	Select your time zone from the drop-down menu.	E-MAIL ALERTS POWER MANAGEMENT RAID	Time: 14:45:5	R :				values (in SETUP > LAN) are valid.
From My Computer	This option will synchronize the DNS-323 clock with your computer.	DDNS	NTP Server Time Zone FROM MY C	ntp1.dlink.com < (GMT-08:00) Pacific Time (I OMPUTER :	< Select NTP Server	▼ Set Time		
	Click Set Time to sync with the local computer.			my computer.	ALLY :	Set Time		
Set Time Manually	This option allows you to set the time and date manually.			Day 23 ▼ Year 2007 ▼ inute 45 ▼ Second 49		Set Time		
	Enter the appropriate time and date and click Set Time.			SAVING TIME : g Time : USA 🔻		Set Time		
Daylight Saving Time	Available Daylight Saving Time options are None, USA, or EU							

Select the appropriate option and click **Set Time**.

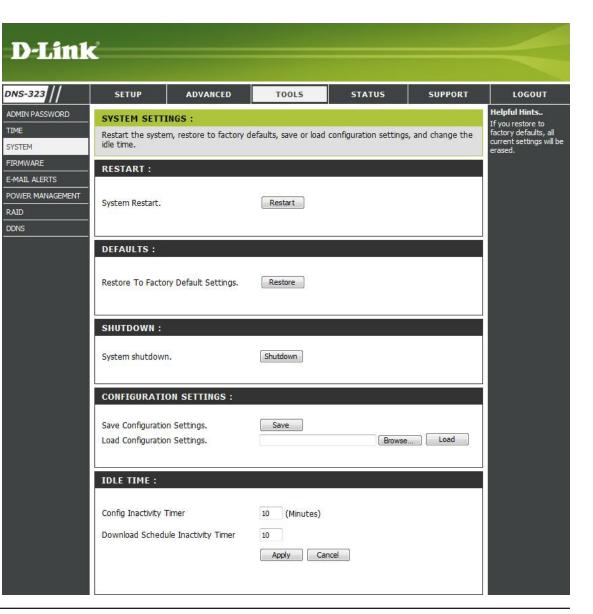
(Europe).

System

The DNS-323 System menu provides options for system restarts, saving and loading configuration settings, and setting idle times.

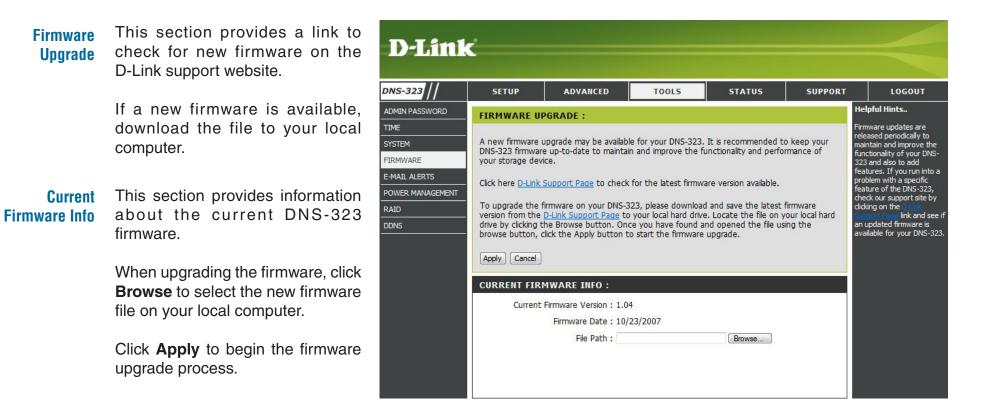
- Restart Click Restart to reboot the DNS-323.
- RestoreClick Restore to reset the DNS-323Defaultsto its factory default settings. This
will erase all previous configuration
changes.
- Shutdown Click Shutdown to turn off the DNS-323.
- **Configuration** Settings Click Save to save the current DNS-323 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-323 configuration settings or that users will be allowed to remain idle while accessing the download schedule settings.

Click **Apply** to save the settings.



Firmware

The DNS-323 Firmware menu makes it simple to check for new firmware releases and upload them to the device.



E-Mail Alerts

With the DNS-323 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.

This section contains the **Alert Settings D-Link** configuration settings for the your e-mail account and alert preferences. DNS-323 SETUP ADVANCED TOOLS STATUS SUPPORT LOGOUT ADMIN PASSWORD **Helpful Hints.** E-MAIL ALERTS : The SMTP server is your Once configured, use the Test TIME outgoing mail server. If you E-mail yourself alerts for certain conditions or for drive space status updates. E-Mail button to send a test aren't sure what this is, SYSTEM contact the company that Don't Save Settings Save Settings Clear Saved Settings provides e-mail services for e-mail and confirm your settings FIRMWARE /011. E-MAIL ALERTS are correct. **E-MAIL ALERT SETTINGS :** POWER MANAGEMENT Login Method :
 Account
 Anonymous RATD User Name : Alert Types This section contains the alert DDNS Password : options and their configuration SMTP Server : settings. Sender E-mail : Receiver E-mail : Test E-Mail **ALERT TYPES :** Space Status Interval: 0 - (Hours) 10 - (Minutes) A Volume Is Full A Hard Drive Has Failed The Administrator's Password Has Been Changed Firmware Has Been Upgraded

temperature is exceeded and an e-mail is sent.

E-Mail Alert Settings

- Login Method Select either Account or Anonymous. Choosing Anonymous does not require a User Name or Password.
 - User Name Enter the appropriate user name for your e-mail account.
 - **Password** Enter the appropriate password for your e-mail account.
- 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@dns323.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** Enter the e-mail address you want **E-Mail** to send the alerts to. This address must correspond with the SMTP server configured above.
 - **Test E-Mail** Click the Test E-Mail button to send a test alert and confirm your settings are correct.

-MAIL ALERT SETTINGS:
Login Method : 💿 Account 🔘 Anonymous
User Name :
Password :
SMTP Server :
Sender E-mail :
Receiver E-mail :
Test E-Mail

E-MAIL ALERT SETTINGS:
Login Method : 🔘 Account 💿 Anonymous
SMTP Server :
Sender E-mail :
Receiver E-mail :
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 - (Hours) 10 - (Minutes)
A Volume Is Full	An alert will be sent when the hard	A Volume Is Full
A volume is run	drive is full.	A Hard Drive Has Failed
		The Administrator's Password Has Been Changed
A Hard Drive Has	An alert will be sent if a critical error	Firmware Has Been Upgraded
Failed	occurs on one of the drives.	System Temperature Has Exceeded Fahrenheit - 140 °F
Administrator Password Change	An alert will be sent if the admin password is changed.	Enabling this feature will cause the DNS-323 to shut down after the selected temperature is exceeded and an e-mail is sent.
Firmware Upgraded	An alert will be sent if the firmware is upgraded.	
System Temperature Exceeded	An alert will be sent if the DNS-323 device temperature exceeds the set threshold. After the alert has been sent, the DNS-323 will power off for safety.	

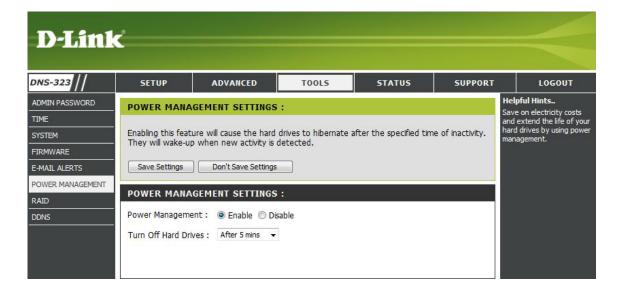
Power Management

The DNS-323 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.

PowerEnable or Disable PowerManagementManagement on the DNS-323.

Turn off HardSet the amount of time before idleDrivesdrives will shut down.

Click Apply to save the settings.



RAID

The DNS-323 supports four different disk configuration types: **Standard**, where each drive is a unique volume, **JBOD**, which combines both drives in a linear fashion to create one volume, as well as RAID 0 and RAID 1.

CONC 202 ME LA LA LA LA



Α	pop-up	window	will	appear	with	the	drive
СО	nfiguratio	on option	s:				

drive configuration.

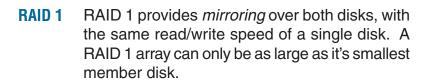
0103-525 -	windows Internet Explorer	And International Property in which the	
http://192.	168.0.100/web/formatHD/ra	iid_wizard1.asp	
D-Link			
		DNS-	323
HARD DR	IVE CONFIGURATION:		
6	elect a RAID type: 💿 Star	david (Te dividual Dialia)	
56		ndard (Individual Disks)	ath Dicks)
		D (Linear - Combines B	5
		0 (Striping - Best Per	
	© RAII	D 1 (Mirroring - Keeps D	Data Safe)
Vendor	Model	Serial Number	Size
Hitachi	HDS721010KLA330	GTJ000PAG2KL2C	1000 GB
Hitachi	HDS721010KLA330	GTJ000PAG2GV5C	1000 GB
			Next
	Constant Page 1	D Lieb Costerna Terr	
	Copyright 2004-2006	D-LINK Systems, Inc.	
			100%
L.()	Internet Protected Mo	de: Un	100%

What is RAID?

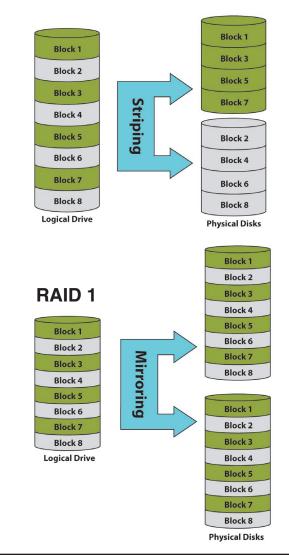
RAID, short for Redundant Array of Independent Disks, is a combination of two or more disks with the aim of providing fault tolerance and improving performance. There are several different levels of RAID, with each providing a different method of sharing or distributing data amongst the drives. The DNS-323 supports RAID levels 0 and 1.

RAID 0 RAID 0 provides *data striping*, which spreads out blocks of data over both 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 both disks, RAID 1 provides fault tolerance and protection, in addition to performance advantages.



RAID 0

DDNS

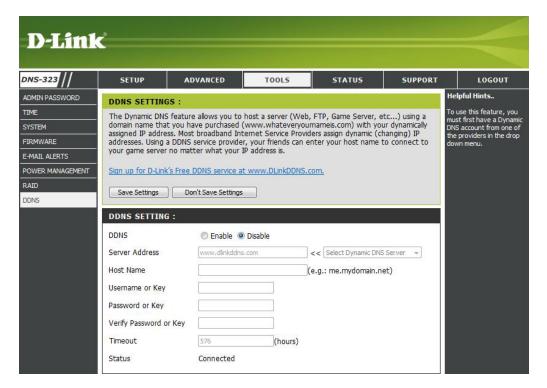
The DDNS feature allows you to host a server (Web, FTP, Game Server, etc...) using a domain name that you have purchased (www.whateveryournameis.com) with your dynamically assigned IP address. Most broadband Internet Service Providers assign dynamic (changing) IP addresses. Using a DDNS service provider, your friends can enter in your domain name to connect to your server no matter what your IP address is.

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 Re-enter your password or key. or Key
 - **Timeout** Enter the timeout time in hours.
 - Status Displays your DDNS status.



Status Device Information

- LAN Info Displays the local network settings of the DNS-323.
- **Device Info** Displays the workgroup, name, description and current temperature of the DNS-323.
- Printer Info Displays information for a connected USB printer.

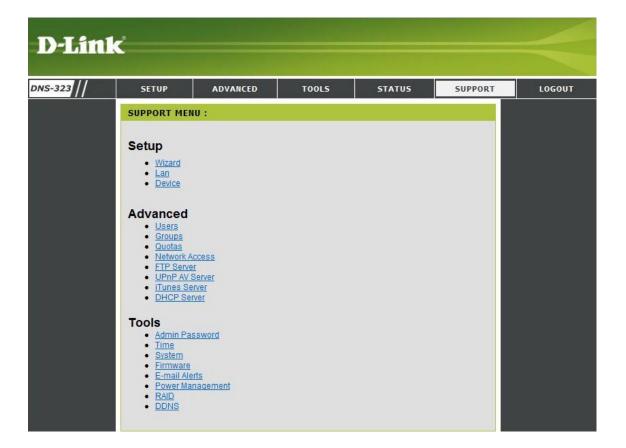
If your computer is having problems printing to the DNS-323, you can click the **Clear Print Queue(s)** button to remove any print jobs that may be causing your computer to be unable to print.

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

D-Lini	k					<
NS-323	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT	LOGOUT
EVICE INFO	DEVICE INFOR	MATION : of device information h	ere.			
	LAN INFO : Gat					
	DEVICE INFO : Workgroup: workgroup Name: DNS-323 Description: Two Bay Storage System Temperature: 107 F/ 42 C					
	PRINTER INFO	Manufacturer: No Product: No				
	HARD DRIVE					
	Total Ha					
	Total Har					

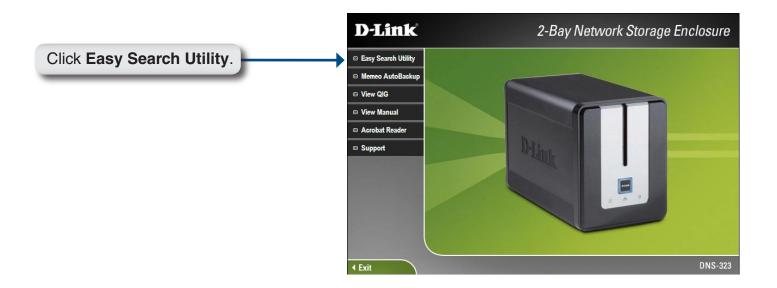
Support

The DNS-323 Support page provides a menu of Support topics explaining the features of the device.



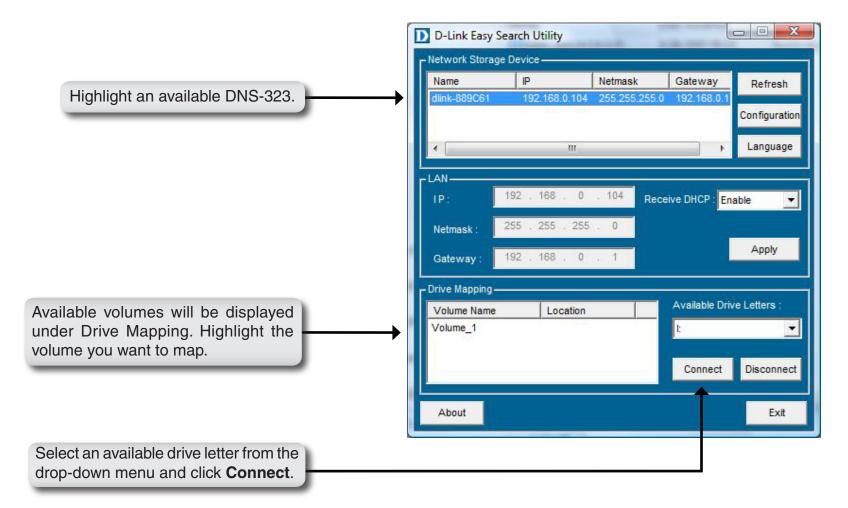
Mapping a Drive

You can use the D-Link Easy Search Utility to map drives to your computer. Insert the DNS-323 CD into your CD-ROM drive.

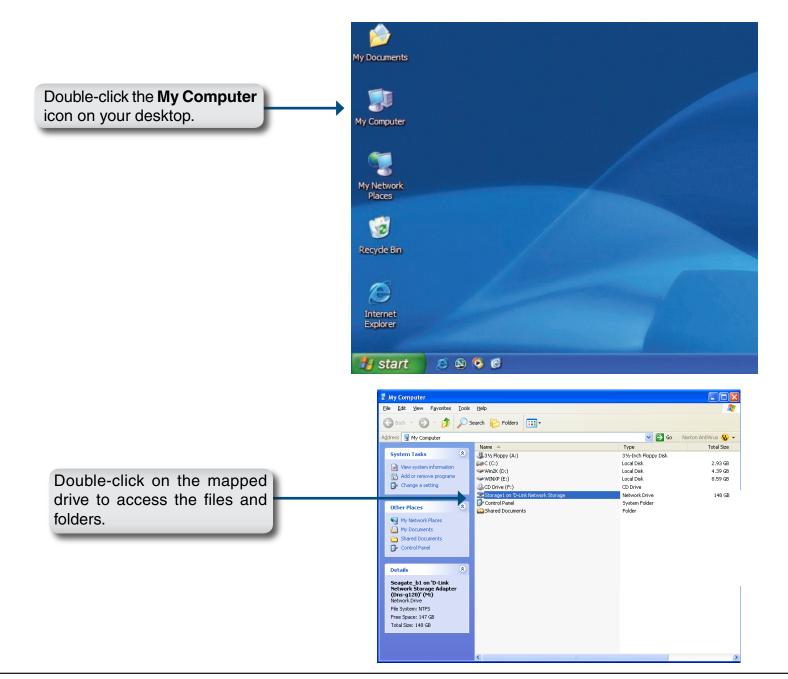


The Easy Search Utility will load and detect any DNS-323 devices that are on the local network.

If the DNS-323 you are working with does not show up in the device list, click **Refresh**.



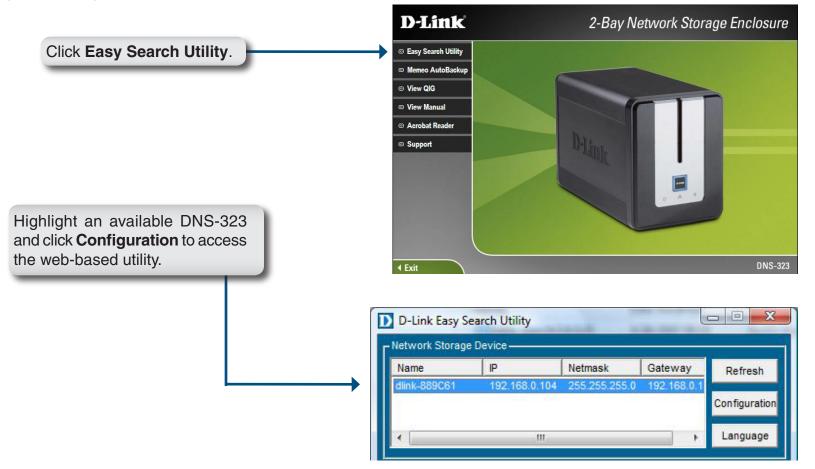
Once connected, your mapped drive(s) will appear in My Computer.



Download Scheduling

The DNS-323 Download Scheduling feature allows you to set up scheduled folder or file downloads and backup sessions.

Begin by accessing the configuration of the DNS-323:



The DNS-323 login screen will appear:

	D-Link DNS-323
Type admin for the username and leave the password field blank.	User Name: Password: Configuration Schedule Downloads
onor concure bownloads.	STORAGE Copyright 2004-2006 D-Link Systems, Inc.

The DNS-323 Download Scheduling configuration will appear.

Schedule Downloads

- SchedulingConfigure download and backupSettingsschedules here.
- Schedule List The Schedule List will display all completed, active, and pending scheduled downloads and backups.

D -Link					
DNS-323	SCHEDULE DOWNLOADS	STATUS	SUPPORT	LOGOUT	
	Save Settings	files and folders from an F Don't Save Settings NGS : ount Anonymous er Name Severe ssword 10 V 23 V 200	Test Local Browse	local network share.	Helpful Hints Always test the URL before applying changes. This will help to ensure a successful download.

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.

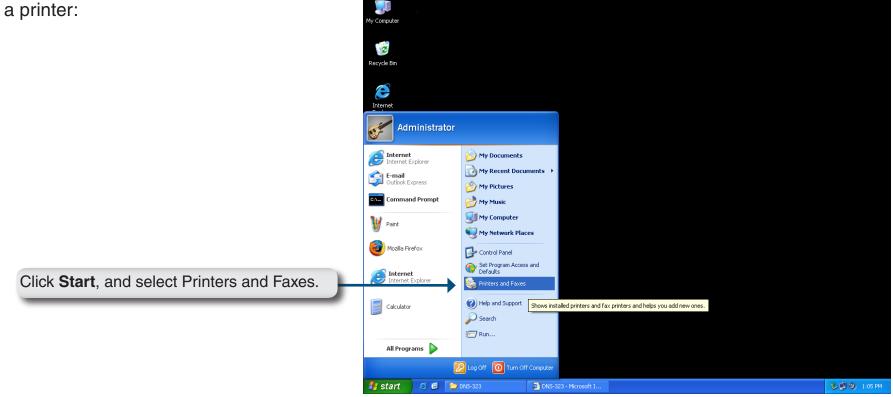
SCHEDULI	NG SETTINGS :
Login Method	Account Anonymous User Name ***** Password *****
Туре	File 👻
URL	Test Local
Save To	Browse
When	Date : 10 • / 23 • / 2007 • Time : 15 • : 01 •
Recurring Backup	None ▼ 00 → :00 →
	Incremental Backup (Only for local backup)

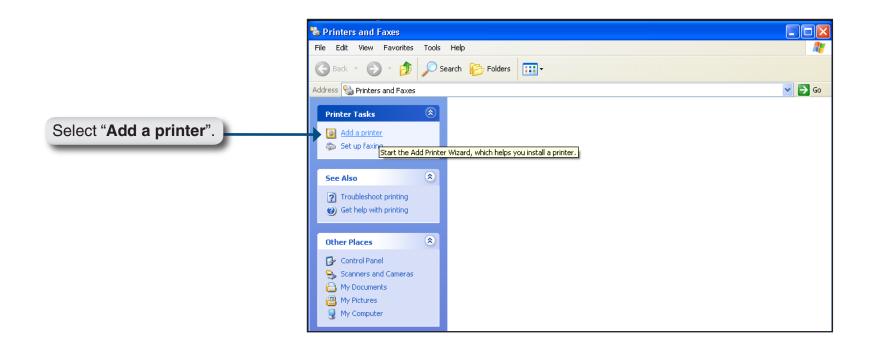
- Local Click Local to set the source file or folder from one of the internal drive volumes. Browse to the file or folder, and click Ok to accept the network path.
- Save To Enter a valid destination drive on the DNS-323, or click Browse and browse to the destination.
- When Enter the date and time you 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 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-323 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-323 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-323. It is important to ensure that any of the printer manufacturer's drivers are already installed on any computer you want to print from.

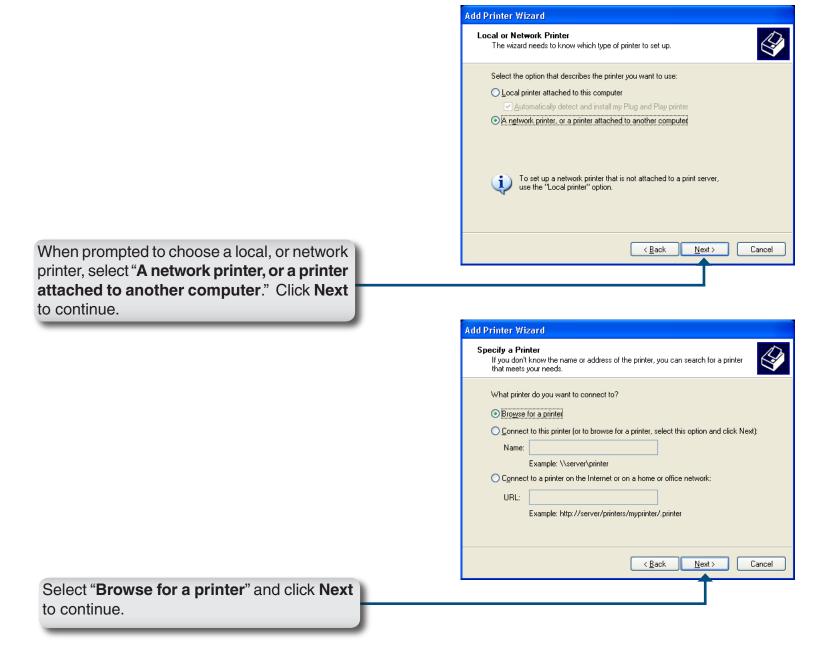
To add a printer:





The Windows® Add Printer Wizard will launch:





	Browse for Printer When the list of printers appears, select the one you want to use.
	When the list of printers appears, select the one you want to use.
Double-click " DNS-323 " from the Shared Printers list to expand the tree.	Printer: Shared printers: Microsoft Windows Network WORKGROUP DNS-323 Printer information Comment: Status: Documents waiting:

Browse for P r When the I		elect the one you want to use.	
Printer: \\dn:	s-323\lp		
	· · ·		
Shared printer			
	Ift Windows Network		
é Þ		USB Printer	
Printer inform	nation USB Printer	USB Printer	
Printer inform	USB Printer	USB Printer Documents waiting:	0
Printer inform Comment:	USB Printer	Documents waiting:	
Printer inform Comment:	USB Printer		0 Ca
Printer inform Comment:	USB Printer	Documents waiting:	

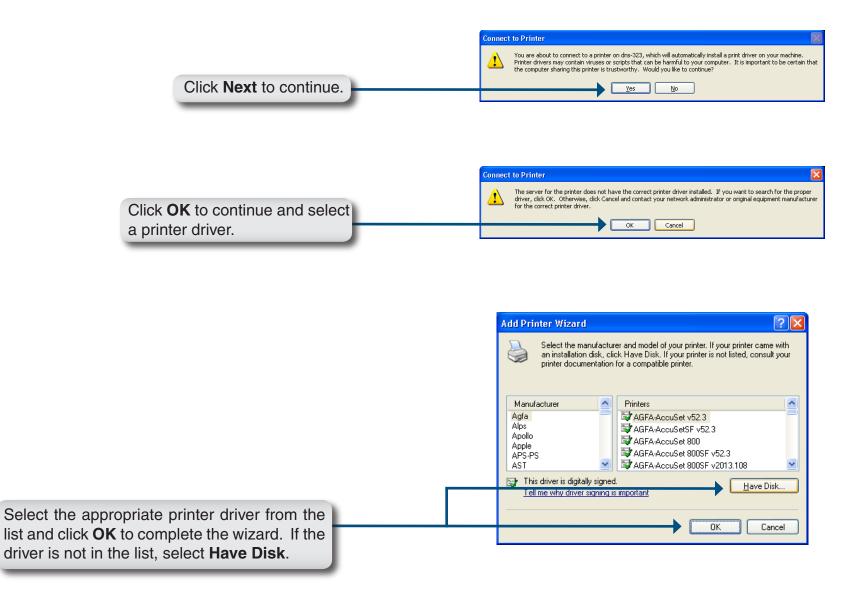
< <u>B</u>ack

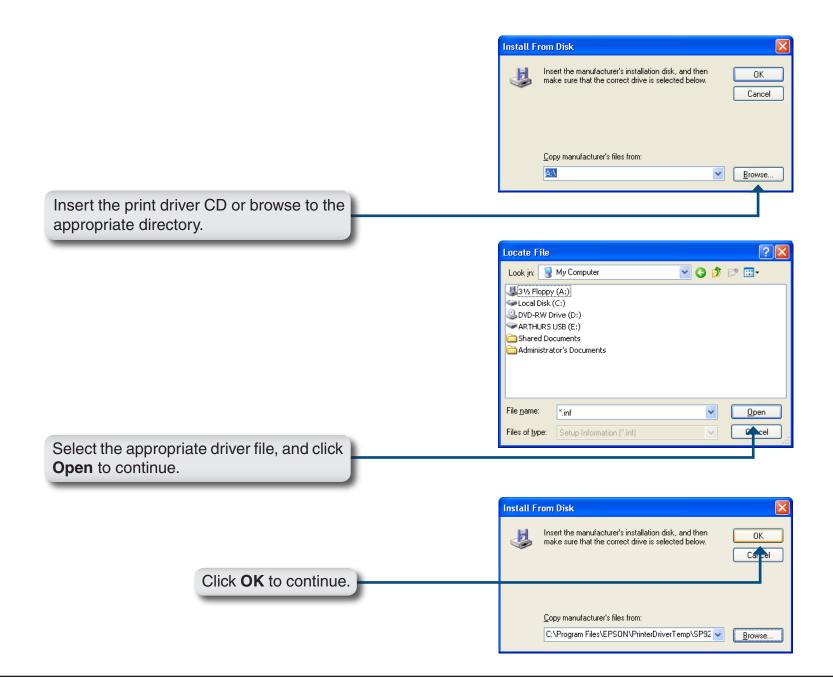
<u>N</u>ext >

Cancel

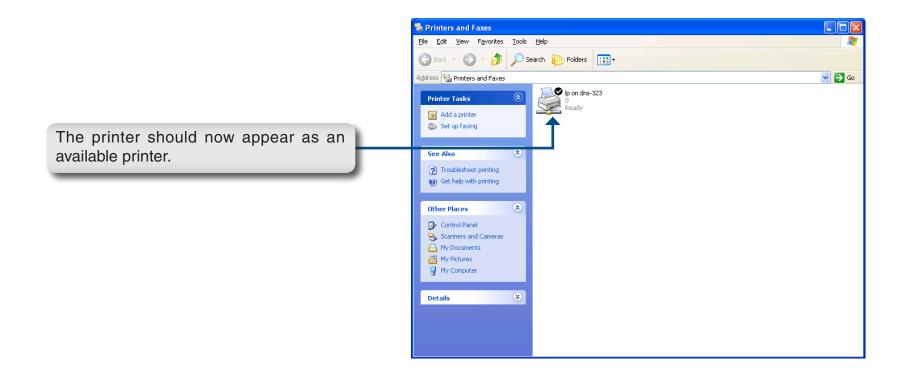
Select the available USB printer, and click **Next** to continue.

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>	
		I
Verify the driver is correct, and click OK to continue.		
A	dd Printer Wizard	
	Completing the Add Printer Wizard	
	You have successfully completed the Add Printer Wizard.	
	You specified the following printer settings: Name: Ip on dns-323	
	Default: Yes	
	Location: Comment:	
	To close this wizard, click Finish.	
	< Back Finish Cancel	
The wizard will install the printer drivers, and return a completion screen. Click Finish .		



Storing non-English Character Files

If you are using firmware 1.04, by default the DNS-323 will support Unicode which is an industry standard allowing computers to consistently represent and manipulate text expressed in most of the world's writing formats. However, if you were using an earlier version of firmware (1.03 or earlier) and have just upgraded to 1.04, Unicode will not be supported until you have reformatted the hard drives in your DNS-323. If you wish to store non-English character files but do not want to reformat your hard drives, you will need to change the Language setting of the device to ensure compatibility with those files.

Follow the Easy Search Utility steps below to change the language of your device if you have chosen to not reformat your hard drives.

Insert the DNS-323 CD into your CD-ROM drive.

Click Easy Search Utility. D-Link 2-Bay Network Storage Enclosure User Stack Utility User Olice Us Highlight an available DNS-323 and click Language.

Select the appropriate language from the drop-down



Language : Western European
Cancel

Western European
Japanese SJIS
Korean Hangul
Cyrillic

The DNS-323 will restart.

menu and click OK.

Note: Changing the language setting will NOT change the display language of the user interface. It is only for supporting non-English character file names.

The DNS-323 is restarting. Please wait a moment.

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-323.

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-323 and then connect to the Web UI. The DNS-323 will prompt you to format the new drive (Standard, RAID 1 mode) or both drives (JBOD, RAID 0 mode).

Adding a New Hard Drive:

The DNS-323 is able to work with one single hard drive under Standard mode. Please make sure the power is off before installing a second hard drive.

After you install the new drive, turn on the DNS-323 and then connect to the Web UI. The DNS-323 will prompt you to format the new drive.

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-323)
- Hardware Revision (located on the label on the bottom of the switch (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

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.

While necessary maintenance or repairs on your Product can be performed by any company, we recommend that you use only an Authorized D-Link Service Office. Improper or incorrectly performed maintenance or repair voids this Limited Warranty.

Disclaimer of Other Warranties:

EXCEPT FOR THE LIMITED WARRANTY SPECIFIED HEREIN, THE PRODUCT IS PROVIDED "AS-IS" WITHOUT ANY WARRANTY OF ANY KIND WHATSOEVER INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT.

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CE Mark Warning:

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

FCC Statement:

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

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

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

Registration



Product registration is entirely voluntary and failure to complete or return this form will not diminish your warranty rights.

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