

IPv6

IPv6 over IPv4 Tunnel - Stateful

Enable automatic IPv6 address assignment: Check to enable the automatic IPv6 address assignment feature.

Autoconfiguration Type: Select **Stateful (DHCPv6)**. Refer to the next page for Stateless.

IPv6 Address Range Start: Enter the start IPv6 Address for the DHCPv6 range for your local computers.

IPv6 Address Range End: Enter the end IPv6 Address for the DHCPv6 range for your local computers.

IPv6 Address Lifetime: Enter the IPv6 Address Lifetime (in minutes).

The screenshot shows the 'LAN ADDRESS AUTOCONFIGURATION SETTINGS' interface. It includes a header, a descriptive paragraph, and several configuration fields: 'Enable automatic IPv6 address assignment' (checked), 'Autoconfiguration Type' (set to 'Stateful DHCPv6'), 'IPv6 Address Range(Start)', 'IPv6 Address Range(End)', and 'IPv6 Address Lifetime' (set to 1440 minutes).

LAN ADDRESS AUTOCONFIGURATION SETTINGS	
Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.	
Enable automatic IPv6 address assignment :	<input checked="" type="checkbox"/>
Autoconfiguration Type :	Stateful DHCPv6
IPv6 Address Range(Start):	<input type="text"/> : <input type="text"/>
IPv6 Address Range(End):	<input type="text"/> : <input type="text"/>
IPv6 Address Lifetime:	1440 (minutes)

IPv6 Link-local Only

Select **Link-local Only** from the **My IPv6 Connection** is drop-down menu if your Router will use the IPv6 link local method to connect to the Internet.

LAN IPv6 Address Settings: Displays the LAN IPv6 Link-Local address of the router.

DHP-1320 // RT	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
VIRTUAL SERVER	IPv6				Helpful Hints... When configuring the router to access the IPv6 Internet, be sure to choose the correct IPv6 Connection Type from the drop down menu. If you are unsure of which option to choose, contact your Internet Service Provider (ISP). If you are having trouble accessing the IPv6 Internet through the router, double check any settings you have entered on this page and verify them with your ISP if needed. More...
PORT FORWARDING	Use this section to configure your IPv6 Connection type. If you are unsure of your connection method, please contact your Internet Service Provider.				
APPLICATION RULES	<input type="button" value="Save Settings"/> <input type="button" value="Don't Save Settings"/>				
QOS ENGINE	IPv6 CONNECTION TYPE				
NETWORK FILTER	Choose the mode to be used by the router to the IPv6 Internet.				
ACCESS CONTROL	My IPv6 Connection is : <input type="text" value="Link-local only"/>				
WEBSITE FILTER	LAN IPv6 ADDRESS SETTINGS :				
INBOUND FILTER	Use this section to configure the internal network settings of your router.				
FIREWALL SETTINGS	LAN IPv6 Link-Local Address : FE80::211:22FF:FE07:2717/64				
ROUTING					
ADVANCED WIRELESS					
WI-FI PROTECTED SETUP					
ADVANCED NETWORK					
IPv6					
IPv6 ROUTING					

Click the **Save Settings** button to save any changes made.

IPv6 PPPoE

The DHP-1320's IPv6 Firewall feature allows you to configure which kind of IPv6 traffic is allowed to pass through the device. The DHP-1320's IPv6 Firewall functions in a similar way to the IP Filters feature.

My IPv6 Connection: Select **PPPoE** from the drop-down menu.

PPPoE: Enter the PPPoE account settings supplied by your Internet provider (ISP).

Address Mode: Select **Static** if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses. In most cases, select **Dynamic**.

IP Address: Enter the IP address (Static PPPoE only).

User Name: Enter your PPPoE user name.

Password: Enter your PPPoE password and then retype the password in the next box.

Service Name: Enter the ISP Service Name (optional).

Reconnection Mode: Select either **Always-on**, **On-Demand**, or **Manual**.

MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your specific ISP. 1500 is the default MTU.

Maximum Idle Time: Enter a maximum idle time during which the Internet connection is maintained during inactivity. To disable this feature, enable Auto-reconnect.

IPv6 CONNECTION TYPE

Choose the mode to be used by the router to the IPv6 Internet.

My IPv6 Connection is :

PPPOE :

Enter the information provided by your Internet Service Provider (ISP).

PPPoE Session : Share with IPv4 Create a new one

Address Mode Dynamic IP Static IP

IP Address :

User Name :

Password :

Verify Password :

Service Name : (optional)

Reconnect Mode : Always on On demand Manual

Maximum Idle Time : (minutes, 0=infinite)

MTU : (bytes)MTU default 1492

IPv6 DNS SETTINGS :

Enter a specific DNS server address.

Obtain IPv6 DNS Servers automatically

Use the following IPv6 DNS Servers

Primary DNS Address :

Secondary DNS Address :

LAN IPv6 ADDRESS SETTINGS :

Use this section to configure the internal network settings of your router. If you change the LAN IPv6 Address here, you may need to adjust your PC's network settings to access the network again.

Enable DHCP-PD :

LAN IPv6 Address : /64

LAN IPv6 Link-Local Address : FE80::211:22FF:FE07:2717/64

LAN ADDRESS AUTOCONFIGURATION SETTINGS

Use this section to setup IPv6 Autoconfiguration to assign IP addresses to the computers on your network.

Enable automatic IPv6 address assignment :

Autoconfiguration Type :

Router Advertisement Lifetime : (minutes)

IPv6 DNS Settings: Select either **Obtain DNS server address automatically** or **Use the following DNS Address**.

Primary/Secondary DNS Address: Enter the primary and secondary DNS server addresses.

LAN IPv6 Address: Enter the LAN (local) IPv6 address for the router.

LAN Link-Local Address: Displays the Router's LAN Link-Local Address.

Enable Autoconfiguration: Check to enable the Autoconfiguration feature.

Autoconfiguration Type: Select **Stateful (DHCPv6)** or **Stateless**. Refer to the next page for Stateless.

IPv6 Address Range Start: Enter the start IPv6 Address for the DHCPv6 range for your local computers.

IPv6 Address Range End: Enter the end IPv6 Address for the DHCPv6 range for your local computers.

IPv6 Address Lifetime: Enter the IPv6 Address Lifetime (in minutes).

IPv6 Routing

This page allows you to specify custom routes that determine how data is moved around your network.

Routing List: Each Route has a checkbox next to it, check the box of the route you wish to enable.

Name: Specify a name for identification of this route.

Destination IP: This field identifies the portion of the destination IP in use.

Metric: The route metric is a value from 1 to 16 that indicates the cost of using this route. A value 1 is the lowest cost and 15 is the highest cost.

Interface: Select the interface which the IP packet must use to transit out of the router when this route is used.

Gateway: The IP address of the router will be displayed here.

ROUTING :

This Routing page allows you to specify custom routes that determine how data is moved around your network.

Save Settings Don't Save Settings

10 --ROUTE LIST

Name	Destination IPv6/Prefix Length	metric	Interface	Gateway
<input type="checkbox"/>	/ 64		NULL	
<input type="checkbox"/>	/ 64		NULL	
<input type="checkbox"/>	/ 64		NULL	
<input type="checkbox"/>	/ 64		NULL	
<input type="checkbox"/>	/ 64		NULL	

Helpful Hints..

Each route has a check box next to it, check this box if you want the route to be enabled.

The name field allows you to specify a name for identification of this route, e.g. 'Network 2'

The destination IP address is the address of the host or network you wish to reach.

The netmask field identifies the portion of the destination IP in use.

The gateway IP address is the IP address of the router, if any, used to reach the specified destination.

[More...](#)

Tools

Admin

This page will allow you to change the Administrator password and configure the authentication settings. This window also allows you to enable Remote Management, via the Internet.

Admin Password: Enter a new password for the Administrator Login Name. The administrator can make changes to the settings.

User Password: Enter the new password for the User login. If you login as the User, you can only see the settings, but cannot change them.

Gateway Name: Enter a name for your DHP-1320 Router.

Enable Graphical Authentication: Enables a challenge-response test to require users to type letters or numbers from a distorted image displayed on the screen to prevent online hackers and unauthorized users from gaining access to your router's network settings.

Enable Remote Management: Remote management allows the DHP-1320 to be configured from the Internet by a web browser. A username and password is still required to access the Web-Management interface. In general, only a member of your network can browse the built-in web pages to perform Administrator tasks. This feature enables you to perform Administrator tasks from the remote (Internet) host.

Remote Admin Port: Enter the port number that will be used to access the DHP-1320.

DHP-1320 // RT	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT	
ADMIN	ADMINISTRATOR SETTINGS				Helpful Hints...	
TIME	The 'admin' and 'user' accounts can access the management interface. The admin has read/write access and can change passwords, while the user has read-only access.				For security reasons, it is recommended that you change the password for the Admin and User accounts. Be sure to write down the new and passwords to avoid having to reset the router in case they are forgotten.	
SYSLOG	By default there is no password configured. It is highly recommended that you create a password to keep your router secure.					
EMAIL SETTINGS	<input type="button" value="Save Settings"/> <input type="button" value="Don't Save Settings"/>				Enabling Remote Management, allows you or others to change the router configuration from a computer on the Internet.	
SYSTEM	ADMIN PASSWORD					Choose a port to open for remote management.
FIRMWARE	Please enter the same password into both boxes, for confirmation. Password : <input type="text"/> Verify Password : <input type="text"/>					
DYNAMIC DNS	USER PASSWORD				Select a filter that controls access as needed for this admin port. If you do not see the filter you need in the list of filters, go to the Advanced — Inbound Filter screen and create a new filter.	
SYSTEM CHECK	Please enter the same password into both boxes, for confirmation. Password : <input type="text"/> Verify Password : <input type="text"/>					
SCHEDULES	SYSTEM NAME				More...	
	Gateway Name : <input type="text" value="DHP-1320"/>					
	ADMINISTRATION					
	Enable Graphical Authentication : <input type="checkbox"/> Enable Remote Management : <input type="checkbox"/> Remote Admin Port : <input type="text" value="8080"/> Remote Admin Inbound Filter : <input type="text" value="Allow All"/> Detail : <input type="text" value="Allow All"/>					

Click the **Save Settings** button to save any changes made.

Time

The Time window allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in and set the Time Server. Daylight Saving can also be configured to automatically adjust the time when needed.

Time Zone: Select the Time Zone from the drop-down menu.

Enable Daylight Saving: Check this box if the country your are located in uses Daylight Saving time. Enter a start date and an end date for daylight saving time.

Enable NTP Server: Check this box to enable the NTP Server.

NTP Server Used: NTP is short for Network Time Protocol. NTP synchronizes computer clock times in a network of computers. To enable NTP carry out the following:

1. Check the **Automatically synchronize with D-Link's Internet Time Server** box.
2. Choose the D-Link NTP server that you would like to synchronize with from the **NTP Server Used** drop-down menu.

Set the Time and Date Manually: Use this section to configure the time manually. To configure the time manually, use the drop-down menus to select the appropriate *Year, Month, Day, Hour, Minute, and Second*.

The screenshot shows the 'TIME' configuration page for a DHP-1320 RT device. The page is organized into several sections:

- TIME:** Displays the current time as 'Thursday, September 02, 2010 7:16:52 PM' and the time zone as '(GMT-08:00) Pacific Time (US/Canada), Tijuana'. It includes 'Save Settings' and 'Don't Save Settings' buttons.
- TIME CONFIGURATION:** Features a checkbox for 'Enable Daylight Saving' (which is unchecked). Below it, 'Daylight Saving Dates' are set with DST Start on 'Mar 3rd Sun 1 am' and DST End on 'Nov 2nd Sun 1 am'.
- AUTOMATIC TIME CONFIGURATION:** Includes a checkbox for 'Enable NTP Server' (unchecked) and a dropdown menu for 'NTP Server Used' with a '<< Select NTP Server' button.
- SET THE DATE AND TIME MANUALLY:** Provides dropdown menus for 'Date And Time' (Year: 2010, Month: Sep, Day: 2), 'Hour' (07), 'Minute' (16), 'Second' (49), and 'PM'. A 'Copy Your Computer's Time Settings' button is located at the bottom.

Click the **Save Settings** button to save any changes made.

SysLog

The Broadband Router keeps a running log of events and activities occurring on the Router. You may send these logs to a SysLog server on your network.

Enable Logging to SysLog Server: Check this box to send the router logs to a SysLog Server.

SysLog Server IP Address: The address of the SysLog server that will be used to send the logs. You may also select your computer from the drop-down menu (only if receiving an IP address from the router via DHCP).

DHP-1320 // RT	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
ADMIN	SYSLOG				Helpful Hints... A System Logger (syslog) is a server that collects in one place the logs from different sources. If the LAN includes a syslog server, you can use this option to send the router's logs to that server.
TIME	The SysLog options allow you to send log information to a SysLog Server. <input type="button" value="Save Settings"/> <input type="button" value="Don't Save Settings"/>				
SYSLOG	SYLOG SETTINGS				More...
EMAIL SETTINGS	<input checked="" type="checkbox"/> Enable Logging To Syslog Server				
SYSTEM	Syslog Server IP Address: <input type="text" value="0.0.0.0"/> << <input type="text" value="Computer Name"/>				
FIRMWARE					
DYNAMIC DNS					
SYSTEM CHECK					
SCHEDULES					

Email Settings

The Email feature can be used to send the system log files and router alert messages to your email address.

Enable Email Notifications: When this option is enabled, router activity logs are e-mailed to a designated e-mail address.

From Email Address: This email address will appear as the sender when you receive a log file or firmware upgrade notification via email.

To Email Address: Enter the email address where you want the email sent.

SMTP Server Address: Enter the SMTP server address for sending email. If your SMTP server requires authentication, select this option.

Enable Authentication: Check this box if your SMTP server requires authentication.

Account Name: Enter your account for sending email.

Password: Enter the password associated with the account. Re-type the password associated with the account.

Send Mail Now: Click this button to send a test email from the Router to verify that the email settings have been configured correctly.

On Log Full: When this option is selected, logs will be sent via e-mail when the log is full.

On Schedule: Selecting this option will send the logs via e-mail according to schedule.

Schedule: This option is enabled when On Schedule is selected. You can select a schedule from the list of defined schedules. To create a schedule, go to **Tools > Schedules**.

Click the **Save Settings** button to save any changes made.

The screenshot shows the web interface for a DHP-1320 RT router. The navigation menu on the left includes ADMIN, TIME, SYSLOG, EMAIL SETTINGS (selected), SYSTEM, FIRMWARE, DYNAMIC DNS, SYSTEM CHECK, and SCHEDULES. The main content area is titled 'EMAIL SETTINGS' and contains the following sections:

- EMAIL SETTINGS:** A message states, 'The Email feature can be used to send the system log files, router alert messages, and firmware update notification to your email address.' Below this are two buttons: 'Save Settings' and 'Don't Save Settings'.
- EMAIL NOTIFICATION:** A section with the label 'Enable Email Notification : .
- EMAIL SETTINGS (Form):** A form with the following fields:
 - From Email Address :
 - To Email Address :
 - SMTP Server Address :
 - SMTP Server Port :
 - Enable Authentication :
 - Account Name :
 - Password :
 - Verify Password :
- EMAIL LOG WHEN FULL OR ON SCHEDULE:** A section with the following options:
 - On Log Full :
 - On Schedule :
 - Schedule :
 - Detail :

System

This section allows you to manage the router's configuration settings, reboot the router, and restore the router to the factory default settings. Restoring the unit to the factory default settings will erase all settings, including any rules that you've created.

Save Settings to Local Hard Drive: Use this option to save the current router configuration settings to a file on the hard disk of the computer you are using. First, click the **Save** button. A file dialog will appear, allowing you to select a location and file name for the settings.

Load Settings from Local Hard Drive: Use this option to load previously saved router configuration settings. First, use the **Browse** option to find a previously saved file of configuration settings. Then, click the **Upload Settings** button below to transfer those settings to the router.

Restore to Factory Default Settings: This option will restore all configuration settings back to the settings that were in effect at the time the router was shipped from the factory. Any settings that have not been saved will be lost, including any rules that you have created. If you want to save the current router configuration settings, use the **Save** button above.

Reboot Device: Click to reboot the router.

Firmware

Use the Firmware window to upgrade the firmware of the Router and install language packs. If you plan to install new firmware, make sure the firmware you want to use is on the local hard drive of the computer. If you want to install a new language pack, make sure that you have the language pack available. Please check the D-Link support site for firmware updates at <http://support.dlink.com>. You can download firmware upgrades to your hard drive from the D-Link support site.

Firmware Information: This section displays information about the firmware that is loaded on the Router. Click the **Check Now** button to find out if there is an updated firmware; if so, download the new firmware to your hard drive.

Firmware Upgrade: After you have downloaded the new firmware, click **Browse** to locate the firmware update on your hard drive. Click **Upload** to complete the firmware upgrade.

The screenshot displays the web management interface for a D-Link DHP-1320 RT router. The left sidebar contains a navigation menu with the following items: ADMIN, TIME, SYSLOG, EMAIL SETTINGS, SYSTEM, FIRMWARE (highlighted), DYNAMIC DNS, SYSTEM CHECK, and SCHEDULES. The main content area is titled 'DHP-1320 // RT' and has tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The 'TOOLS' tab is active, showing the 'FIRMWARE' section. This section includes a message about potential new firmware, instructions on how to upgrade, and a 'Check Now' button. Below this is the 'FIRMWARE INFORMATION' section, which displays the current firmware version as 1.00NA and the date as Thu, 02, Sep, 2010. There is also a 'Check Online Now for Latest Firmware Version' button. The 'FIRMWARE UPGRADE' section contains a note about factory defaults and an 'Upload' button. A right sidebar contains 'Helpful Hints...' and a 'More...' link.

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 enter in your domain name to connect to your server no matter what your IP address is.

Enable DDNS: Dynamic Domain Name System is a method of keeping a domain name linked to a changing IP Address. Check the box to enable DDNS.

Server Address: Choose your DDNS provider from the drop down menu.

Host Name: Enter the Host Name that you registered with your DDNS service provider.

Username or Key: Enter the Username for your DDNS account.

Timeout: Enter a time in (hours).

Status: Displays the current connection status to your DDNS server.

DHP-1320 // RT	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
ADMIN	DYNAMIC DNS				Helpful Hints...
TIME	<p>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 your host name to connect to your game server no matter what your IP address is.</p> <p>Sign up for D-Link's Free DDNS service at www.dlinkddns.com.</p> <p>Save Settings Don't Save Settings</p>				To use this feature, you must first have a Dynamic DNS account from one of the providers in the drop down menu.
SYSLOG	DYNAMIC DNS SETTINGS				More...
EMAIL SETTINGS	<p>Enable Dynamic DNS : <input type="checkbox"/></p> <p>Server Address : <input type="text" value="www.dlinkddns.com(Free)"/> <input type="button" value="<<"/> <input type="button" value="Select Dynamic DNS Server"/> <input type="button" value=">>"/></p> <p>Host Name : <input type="text"/></p> <p>Username or Key : <input type="text"/></p> <p>Password or Key : <input type="password" value="*****"/></p> <p>Verify Password or Key : <input type="password" value="*****"/></p> <p>Timeout : <input type="text" value="576"/> (hours)</p> <p>Status : Disconnected</p>				
SYSTEM					
FIRMWARE					
DYNAMIC DNS					
SYSTEM CHECK					
SCHEDULES					

Click the **Save Settings** button to save any changes made.

System Check

Ping Test: The Ping Test is used to send Ping packets to test if a computer is on the Internet. Enter the IP Address that you wish to Ping, and click **Ping**. Click **Stop** to stop sending Ping packets

IPv6 Ping Test: The IPv6 Ping Test is used to send IPv6 Ping packets to test if a computer is on the Internet. Enter the IPv6 Address that you wish to Ping, and click **Ping**. Click **Stop** to stop sending IPv6 Ping packets

Ping Results: The results of your Ping/IPv6 Ping attempts will be displayed here.

DHP-1320 // RT	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
ADMIN	PING TEST				Helpful Hints... "Ping" checks whether a computer on the Internet is running and responding. Enter either the IP address of the target computer or enter its fully qualified domain name. More...
TIME	Ping Test sends "ping" packets to test a computer on the Internet.				
SYSLOG	PING TEST				
EMAIL SETTINGS	Host Name or IP Address : <input type="text"/> <input type="button" value="ping"/>				
SYSTEM	IPv6 PING TEST				
FIRMWARE	Host Name or IPv6 Address : <input type="text"/> <input type="button" value="ping"/>				
DYNAMIC DNS	PING RESULT				
SYSTEM CHECK					
SCHEDULES					

Schedules

Schedules can be created for use with enforcing rules. For example, if you want to restrict web access to Mon-Fri from 3pm to 8pm, you could create a schedule selecting Mon, Tue, Wed, Thu, and Fri and enter a Start Time of 3pm and End Time of 8pm.

Name: Enter a name for your new schedule.

Days: Select a day, a range of days, or All Week to include every day.

Time: Check **All Day - 24hrs** or enter a *Start Time* and *End Time* for your schedule.

Save: Click **Save** to save your schedule. You must click the **Save** button for your schedules to go into effect.

Schedule Rules List: The list of schedules will be listed here. Click the **Edit** icon to make changes or click the **Delete** icon to remove the schedule.

The screenshot shows the DHP-1320 RT web interface. The left sidebar contains a navigation menu with options: ADMIN, TIME, SYSLOG, EMAIL SETTINGS, SYSTEM, FIRMWARE, DYNAMIC DNS, SYSTEM CHECK, and SCHEDULES. The main content area is titled 'SCHEDULES' and includes a '10 - ADD SCHEDULE RULE' form. The form has the following fields and options:

- Name:** A text input field.
- Day(s):** Radio buttons for 'All Week' (selected) and 'Select Day(s)'. Below are checkboxes for Sun, Mon, Tue, Wed, Thu, Fri, and Sat.
- All Day - 24 hrs:** A checkbox.
- Time format:** A dropdown menu set to '24-hour'.
- Start Time:** A time selection field showing 12:00 AM.
- End Time:** A time selection field showing 12:00 AM.

Below the form is a 'SCHEDULE RULES LIST' table with columns for Name, Day(s), and Time Frame. The right sidebar contains 'Helpful Hints...' text explaining that schedules are used with other features to define when those features are in effect, and provides instructions on how to use the Save, Edit, and Delete icons.

Status

Device Info

This page displays the current information for the DHP-1320. It will display the LAN, WAN (Internet), and Wireless information. If your Internet connection is set up for a Dynamic IP address then a **Release** button and a **Renew** button will be displayed. Use **Release** to disconnect from your ISP and use **Renew** to connect to your ISP.

If your Internet connection is set up for PPPoE, a **Connect** button and a **Disconnect** button will be displayed. Use **Disconnect** to drop the PPPoE connection and use **Connect** to establish the PPPoE connection.

General: Displays the router's time and firmware version.

WAN: Displays the MAC address and the public IP settings for the router.

LAN: Displays the MAC address and the private (local) IP settings for the router.

Wireless LAN: Displays the wireless MAC address and your wireless settings such as SSID and Channel.

LAN Computer: Displays computers and other devices which are connected to the router via Ethernet, and that are receiving an IP address assigned by the router CDHCP).

IGMP Multicast Memberships: Displays the Multicast Group IP address.

DEVICE INFORMATION		
All of your Internet and network connection details are displayed on this page. The firmware version is also displayed here.		
GENERAL		
Time : Thursday, August 26, 2010 5:31:39 PM		
Firmware Version : 1.00NA . Thu. 26. Aug. 2010		
WAN		
Connection Type: DHCP Client Disconnected		
<input type="button" value="DHCP Release"/> <input type="button" value="DHCP Renew"/>		
Cable Status : Disconnected		
Network Status : Disconnected		
Connection Up Time : N/A		
MAC Address : 00:11:22:07:27:18		
IP Address : 0.0.0.0		
Subnet Mask : 0.0.0.0		
Default Gateway : 0.0.0.0		
Primary DNS Server : 0.0.0.0		
Secondary DNS Server :		
Advanced DNS : Disabled		
LAN		
MAC Address : 00:11:22:07:27:17		
IP Address : 192.168.0.1		
Subnet Mask : 255.255.255.0		
DHCP Server : Enabled		
WIRELESS LAN		
Wireless Radio : Enabled		
MAC Address : 00:11:22:07:27:17		
Network Name (SSID) : dlink		
Channel : 1		
Security Mode : disable		
LAN COMPUTERS		
IP Address	Name (if any)	MAC
IGMP MULTICAST MEMBERSHIPS		
Multicast Group Address		

Logs

The router automatically logs (records) events of possible interest in its internal memory. If there isn't enough internal memory for all events, logs of older events are deleted but logs of the latest events are retained. The Logs option allows you to view the router logs. You can define what types of events you want to view and the level of the events to view. This router also has external Syslog Server support so you can send the log files to a computer on your network that is running a Syslog utility.

Save Log File: Click the **Apply Log Settings Now** button save the Router's log entries to a log file on your computer.

Log Type: Use the radio buttons to select the types of messages that you want to display from the log. **System, Firewall & Security, and Router Status** messages can be selected.

First Page: Click this button to view the first page of the Router logs.

Last Page: Click this button to view the last page of the Router logs.

Previous: Click this button to view the previous page of the Router logs.

Next: Click this button to view the next page of the Router logs.

Clear: Clears all of the log contents.

Email Now: Click this button to open the **Tools > Email Settings** screen so that you can change the Email configuration for sending logs.

The screenshot shows the D-Link DHP-1320 RT web interface. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar contains menu items: DEVICE INFO, LOGS, STATISTICS, INTERNET SESSIONS, ROUTING, WIRELESS, and IPv6. The main content area is titled 'LOGS' and contains the following text: 'Use this option to view the router logs. You can define what types of events you want to view and the event levels to view. This router also has internal syslog server support so you can send the log files to a computer on your network that is running a syslog utility.' Below this is the 'LOG OPTIONS' section with the following settings: Log Type: System Activity, Debug Information, Attacks, Dropped Packets, Notice. An 'Apply Log Settings Now' button is located below these options. The 'LOG DETAILS' section at the bottom shows a table with 1/25 entries. The table has two columns: 'Time' and 'Message'. The entries are: Sep 2 19:39:42 Sending discover..., Sep 2 19:39:40 Sending discover..., Sep 2 19:39:38 Sending discover..., and Sep 2 19:38:34 Sending discover... Navigation buttons for 'First Page', 'Last Page', 'Previous', 'Next', 'Refresh', 'Clear', 'Email Now', and 'Save Log' are located above the table. On the right side of the interface, there is a 'Helpful Hints...' section with text: 'Check the log frequently to detect unauthorized network usage. You can also have the log mailed to you periodically. Refer to Tools -> EMail. More...'

Statistics

The screen below displays the **Traffic Statistics**. Here you can view the amount of packets that pass through the DHP-1320 on both the WAN, LAN ports and the 802.11n/g (2.4GHz) wireless band. The traffic counter will reset if the device is rebooted.

Refresh: Click the **Refresh** button to refresh the Router's traffic statistics.

Reset: Click the **Reset** button to reset the Router's traffic statistics.

DHP-1320 // RT	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT								
DEVICE INFO LOGS STATISTICS INTERNET SESSIONS ROUTING WIRELESS IPv6	TRAFFIC STATISTICS Traffic Statistics display Receive and Transmit packets passing through your router. <input type="button" value="Refresh Statistics"/> <input type="button" value="Clear Statistics"/>				Helpful Hints... This is a summary of the number of packets that have passed between the WAN and the LAN since the router was last initialized. More...								
LAN STATISTICS													
<table border="0"> <tr> <td>Sent : 162879</td> <td>Received : 151185</td> </tr> <tr> <td>TX Packets : 0</td> <td>RX Packets : 0</td> </tr> <tr> <td>Dropped : 0</td> <td>Dropped : 0</td> </tr> <tr> <td>Collisions : 0</td> <td>Errors : 0</td> </tr> </table>						Sent : 162879	Received : 151185	TX Packets : 0	RX Packets : 0	Dropped : 0	Dropped : 0	Collisions : 0	Errors : 0
Sent : 162879	Received : 151185												
TX Packets : 0	RX Packets : 0												
Dropped : 0	Dropped : 0												
Collisions : 0	Errors : 0												
WAN STATISTICS													
<table border="0"> <tr> <td>Sent : 0</td> <td>Received : 0</td> </tr> <tr> <td>TX Packets : 0</td> <td>RX Packets : 0</td> </tr> <tr> <td>Dropped : 0</td> <td>Dropped : 0</td> </tr> <tr> <td>Collisions : 0</td> <td>Errors : 0</td> </tr> </table>						Sent : 0	Received : 0	TX Packets : 0	RX Packets : 0	Dropped : 0	Dropped : 0	Collisions : 0	Errors : 0
Sent : 0	Received : 0												
TX Packets : 0	RX Packets : 0												
Dropped : 0	Dropped : 0												
Collisions : 0	Errors : 0												
WIRELESS STATISTICS													
<table border="0"> <tr> <td>Sent : 675</td> <td>Received : 0</td> </tr> <tr> <td>TX Packets : 6720</td> <td>RX Packets : 0</td> </tr> <tr> <td>Dropped : 0</td> <td>Dropped : 0</td> </tr> <tr> <td></td> <td>Errors : 0</td> </tr> </table>						Sent : 675	Received : 0	TX Packets : 6720	RX Packets : 0	Dropped : 0	Dropped : 0		Errors : 0
Sent : 675	Received : 0												
TX Packets : 6720	RX Packets : 0												
Dropped : 0	Dropped : 0												
	Errors : 0												

Internet Sessions

The Internet Sessions page displays full details of active Internet sessions through your router. An Internet session is a conversation between a program or application on a LAN-side computer and a program or application on a WAN-side computer.

DHP-1320 // RT	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT						
DEVICE INFO	INTERNET SESSIONS				Helpful Hints... This is a list of all active conversations between WAN computers and LAN computers. More...						
LOGS	This page displays the full details of active internet sessions to your router.										
STATISTICS	INTERNET SESSIONS										
INTERNET SESSIONS	<table border="1"><thead><tr><th>Local</th><th>NAT</th><th>Internet</th><th>Protocol</th><th>State</th><th>Dir</th><th>Time Out</th></tr></thead></table>					Local	NAT	Internet	Protocol	State	Dir
Local	NAT	Internet	Protocol	State	Dir	Time Out					
ROUTING											
WIRELESS											
IPv6											

Routing Table

This page displays the routing details configured for your router.

DHP-1320 // RT	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT																												
DEVICE INFO LOGS STATISTICS INTERNET SESSIONS ROUTING WIRELESS IPv6	<p>ROUTING</p> <p>Routing Table</p> <p>This page displays the routing details configured for your router.</p>																																
	<p>ROUTING TABLE</p> <table border="1"> <thead> <tr> <th>Deatination IP</th> <th>NetMask</th> <th>Gateway</th> <th>Metric</th> <th>Interface</th> <th>Type</th> <th>Creator</th> </tr> </thead> <tbody> <tr> <td>192.168.0.0</td> <td>255.255.255.0</td> <td>0.0.0.0</td> <td>0</td> <td>LAN</td> <td>INTRANET</td> <td>System</td> </tr> <tr> <td>239.0.0.0</td> <td>255.0.0.0</td> <td>0.0.0.0</td> <td>0</td> <td>LAN</td> <td>INTRANET</td> <td>System</td> </tr> <tr> <td>127.0.0.0</td> <td>255.0.0.0</td> <td>0.0.0.0</td> <td>0</td> <td>Local Loopback</td> <td>LOCAL</td> <td>System</td> </tr> </tbody> </table>				Deatination IP	NetMask	Gateway	Metric	Interface	Type	Creator	192.168.0.0	255.255.255.0	0.0.0.0	0	LAN	INTRANET	System	239.0.0.0	255.0.0.0	0.0.0.0	0	LAN	INTRANET	System	127.0.0.0	255.0.0.0	0.0.0.0	0	Local Loopback	LOCAL	System	
Deatination IP	NetMask	Gateway	Metric	Interface	Type	Creator																											
192.168.0.0	255.255.255.0	0.0.0.0	0	LAN	INTRANET	System																											
239.0.0.0	255.0.0.0	0.0.0.0	0	LAN	INTRANET	System																											
127.0.0.0	255.0.0.0	0.0.0.0	0	Local Loopback	LOCAL	System																											

Wireless

The wireless client table displays a list of current connected wireless clients. This table also displays the connection time and MAC address of the connected wireless clients.

DHP-1320 // RT	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT				
DEVICE INFO LOGS STATISTICS INTERNET SESSIONS ROUTING WIRELESS IPv6	WIRELESS Use this option to view the wireless clients that are connected to your wireless router.				Helpful Hints... This is a list of all wireless clients that are currently connected to your wireless router. More...				
	NUMBER OF WIRELESS CLIENTS : 0 <table border="1"> <thead> <tr> <th>MAC Address</th> <th>IP Address</th> <th>Mode</th> <th>Rate</th> <th>Signal(%)</th> </tr> </thead> <tbody> </tbody> </table>					MAC Address	IP Address	Mode	Rate
MAC Address	IP Address	Mode	Rate	Signal(%)					

IPv6

The IPv6 page displays a summary of the Router's IPv6 settings and lists the IPv6 address and host name of any IPv6 clients.

DHP-1320 // RT	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT						
DEVICE INFO LOGS STATISTICS INTERNET SESSIONS ROUTING WIRELESS IPv6	<div data-bbox="535 397 1543 446" style="background-color: #f4a460; padding: 5px;">IPv6 Network Information</div> <div data-bbox="535 446 1543 527" style="background-color: #e0e0e0; padding: 5px;">All of your IPv6 Internet and network connection details are displayed on this page.</div> <div data-bbox="535 527 1543 576" style="background-color: #333; color: white; padding: 5px;">IPv6 Connection Information</div> <div data-bbox="535 576 1543 722" style="padding: 5px;"> <p>IPv6 Connection Type : Link Local IPv6 Default Gateway : None LAN IPv6 Link-Local Address : fe80::211:22ff:fe07:2717/64 DHCP-PD : Disabled</p> </div> <div data-bbox="535 722 1543 771" style="background-color: #333; color: white; padding: 5px;">LAN IPv6 Computers</div> <table border="1" data-bbox="535 771 1543 844" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Name (if any)</th> <th style="width: 15%;">MAC</th> <th style="width: 35%;">IPv6 Address</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				Name (if any)	MAC	IPv6 Address				<div data-bbox="1564 397 1822 446" style="background-color: #333; color: white; padding: 5px;">Helpful Hints...</div> <div data-bbox="1564 446 1822 560" style="background-color: #333; color: white; padding: 5px;">All of your WAN and LAN connection details are displayed here.</div> <div data-bbox="1564 560 1822 609" style="background-color: #333; color: white; padding: 5px;">More...</div>
Name (if any)	MAC	IPv6 Address									

Support

DHP-1320 // RT	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
MENU	SUPPORT MENU				
SETUP	<ul style="list-style-type: none"> • Setup • Advanced • Tools • Status 				
ADVANCED	SETUP HELP				
TOOLS	<ul style="list-style-type: none"> • Internet Connection • WAN • Wireless • Network Settings 				
STATUS	ADVANCED HELP				
	<ul style="list-style-type: none"> • Virtual Server • Port Forwarding • Application Rules • QoS Engine • Network Filter • Access Control • Website Filter • Inbound Filter • Firewall Settings • Routing • Advanced Wireless • Wi-Fi Protected Setup • Advanced Network • IPv6 				
	TOOLS HELP				
	<ul style="list-style-type: none"> • Admin • Time • Syslog • Email Settings • System • Firmware • Dynamic DNS • System Check • Schedules 				
	STATUS				
	<ul style="list-style-type: none"> • Device Info • Logs • Statistics • Internet Sessions • Routing • Wireless • IPV6 				

Wireless Connection Setup Wizard

To run the Wireless Connection Setup Wizard, click the **Wireless Connection Setup Wizard** button in the **Setup>Wireless Settings** window.

WIRELESS SETTINGS

The following Web-based wizards are designed to assist you in your wireless network setup and wireless device connection.
Before launching these wizards, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package.

WIRELESS NETWORK SETUP WIZARD

This wizard is designed to assist you in your wireless network setup. It will guide you through step-by-step instructions on how to set up your wireless network and how to make it secure.

[Wireless Connection Setup Wizard](#)

Note: Some changes made using this Setup Wizard may require you to change some settings on your wireless client adapters so they can still connect to the D-Link Router.

ADD WIRELESS DEVICE WITH WPS (WI-FI PROTECTED SETUP) WIZARD

This wizard is designed to assist you in connecting your wireless device to your wireless router. It will guide you through step-by-step instructions on how to get your wireless device connected. Click the button below to begin.

[Add Wireless Device with WPS](#)

MANUAL WIRELESS NETWORK SETUP

If your wireless network is already set up with Wi-Fi Protected Setup, manual configuration of the wireless network will destroy the existing wireless network. If you would like to configure the wireless settings of your new D-Link Systems Router manually, then click on the Manual Wireless Network Setup button below.

[Manual Wireless Connection Setup](#)

Wireless Security Setup Wizard

Check the **Manually set 5GHz band Network Name...** box to manually set your desired wireless network name for the 5GHz band.

Type your desired wireless network name (SSID).

Automatically: Select this option to automatically generate the router's network key and click **Next**.

Manually: Select this option to manually enter your network key and click **Next**.

If you selected **Automatically**, the summary window will display your settings. Write down the security key and enter this on your wireless clients. Click **Save** to save your settings.

STEP 1: WELCOME TO THE D-LINK WIRELESS SECURITY SETUP WIZARD

Give your network a name, using up to 32 characters.

Wireless Network Name (SSID) :

Automatically assign a network key (Recommended)
To prevent outsiders from accessing your network, the router will automatically assign a security to your network.

Manually assign a network key
Use this options if you prefer to create our own key.

Note: All D-Link wireless adapters currently support WPA.

SETUP COMPLETE!

Below is a detailed summary of your wireless security settings. Please print this page out, or write the information on a piece of paper, so you can configure the correct settings on your wireless client adapters.

Wireless Band : 2.4GHz Band

Wireless Network Name (SSID) : dlink

Security Mode : Auto (WPA or WPA2) - Personal

Cipher Type : TKIP and AES

Pre-Shared Key :
23259f118109eed04c1d464d143201320f45d0d2483e13baac9bf0f314087929

If you selected **Manually**, the following screen will appear.

Enter the *Wireless Security Password* you would like to use for your wireless network and click **Next** to proceed to the next window.

STEP 2: SET YOUR WIRELESS SECURITY PASSWORD

You have selected your security level - you will need to set a wireless security password.

The WPA (Wi-Fi Protected Access) key must meet one of following guidelines:

- Between 8 and 63 characters (A longer WPA key is more secure than a short one)
- Exactly 64 characters using 0-9 and A-F

Wireless Security Password :

Note: You will need to enter the same password as keys in this step into your wireless clients in order to enable proper wireless communication.

Prev Next Cancel Save

The summary window will display your settings. Write down the security key and enter this on your wireless clients. Click **Save** to save your settings.

SETUP COMPLETE!

Below is a detailed summary of your wireless security settings. Please print this page out, or write the information on a piece of paper, so you can configure the correct settings on your wireless client adapters.

Wireless Band : 2.4GHz Band

Wireless Network Name (SSID) : dlink

Security Mode : Auto (WPA or WPA2) - Personal

Cipher Type : TKIP and AES

Pre-Shared Key : 12345678

Prev Next Cancel Save

Add Wireless Device with WPS Wizard

From the **Setup > Wireless Settings** screen, click **Add Wireless Device with WPS**.

Select **Auto** to add a wireless client using WPS (Wi-Fi Protected Setup). Once you select **Auto** and click **Connect**, you will have a 120 second time limit to apply the settings to your wireless client(s) and successfully establish a connection.

If you select **Manual**, a settings summary screen will appear. Write down the security key and enter this on your wireless clients.

PIN: Select this option to use PIN method. In order to use this method you must know the wireless client's 8 digit PIN and click **Connect**.

PBC: Select this option to use PBC (Push Button) method to add a wireless client. Click **Connect**.

ADD WIRELESS DEVICE WITH WPS (WI-FI PROTECTED SETUP) WIZARD

This wizard is designed to assist you in connecting your wireless device to your wireless router. It will guide you through step-by-step instructions on how to get your wireless device connected. Click the button below to begin.

Add Wireless Device with WPS

STEP 1: SELECT CONFIGURATION METHOD FOR YOUR WIRELESS NETWORK

Please select one of following configuration methods and click next to continue.

Auto Select this option if your wireless device supports WPS (Wi-Fi Protected Setup)

Manual Select this option will display the current wireless settings for you to configure the wireless device manually

Prev

Next

Cancel

Connect

STEP 2: CONNECT YOUR WIRELESS DEVICE

There are two ways to add wireless device to your wireless network:
 -PIN (Personal Identification Number)
 -PBC (Push Button Configuration)

PIN :

please enter the PIN from your wireless device and click the below "Connect" Button within 120 seconds

PBC

please press the push button on your wireless device and click the below "Connect" Button within 120 seconds

Prev

Next

Cancel

Connect

Configuration (AP Mode)

This section will show you how to configure your new D-Link wireless router using the web-based configuration utility.

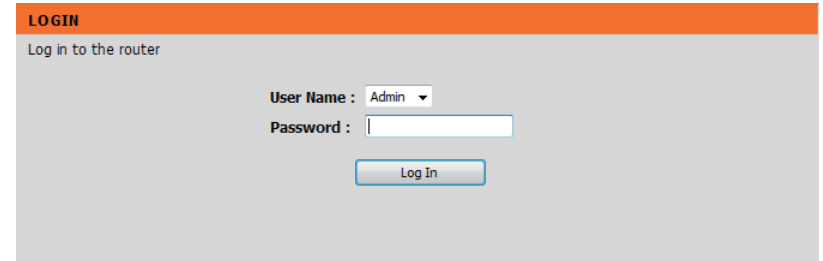
Web-based Configuration Utility

To access the configuration utility, open a web-browser such as Internet Explorer and enter `http://dlinkrouter` or the IP address of the router (192.168.0.1).



Select **Admin** in the User Name field. Leave the password blank by default.

If you get a **Page Cannot be Displayed** error, please refer to the **Troubleshooting** section for assistance.



Wireless Setup Wizard

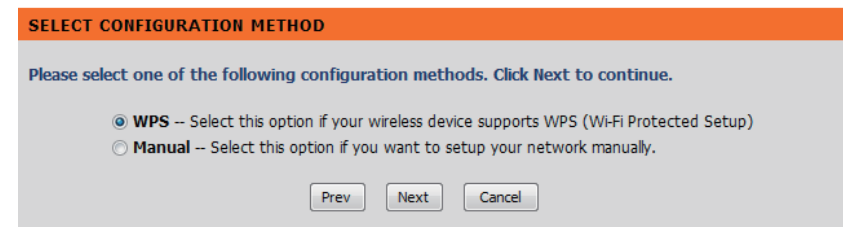
To use our web-based wizard to assist you in connecting your DHP-1320, click **Launch Wireless Setup Wizard** to begin.



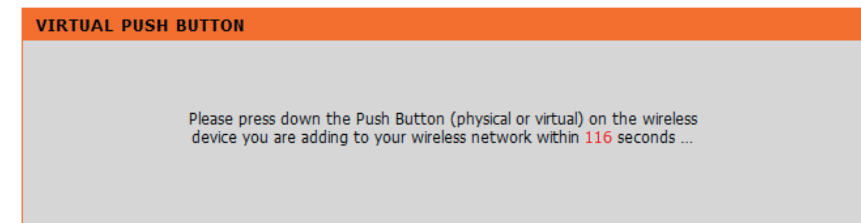
Click **Next** to continue your wireless network setup.



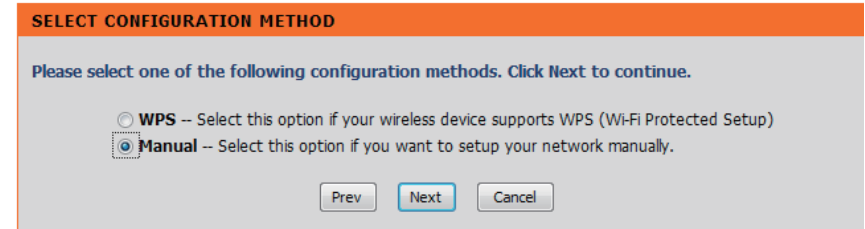
Select one of the two configuration methods. Select **WPS** if your wireless device supports WPS and click **Next** to continue to the next step.



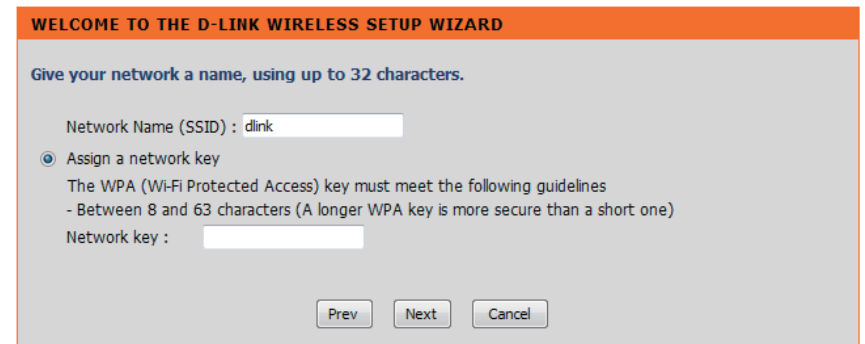
Press down the Push Button on the wireless device within 116 seconds.



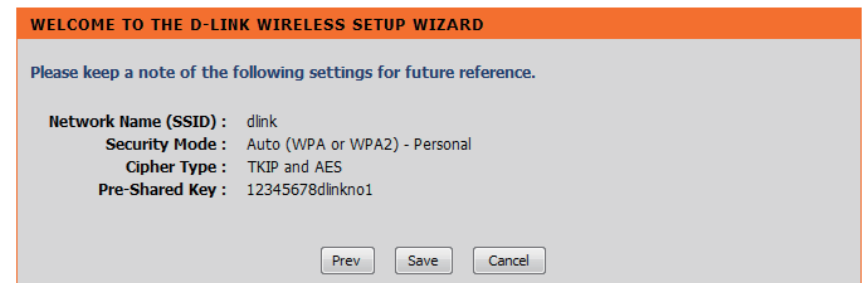
If you would like to setup your network manually, select **Manual** and click **Next** to continue.



Enter the SSID (Service Set Identifier). The SSID is the name of your wireless network. Create a name using up to 32 characters. The SSID is case-sensitive. Select Assign a network key and click **Next**.



Once this screen appears, the setup is complete. You will be given a detailed summary of your wireless security settings. Click **Save** to continue.



Wireless Setup

Enable Wireless: Check this box to enable the wireless function. If you would prefer not to use wireless, uncheck the box to disable all the wireless functions. You may also set up a specific time range (schedule). Select a schedule from the drop-down menu or click Add New Schedule to create a new schedule.

Wireless Network Name: When you are browsing for available wireless networks, this is the name that will appear in the list (unless Visibility Status is set to Invisible, see below). This name is also referred to as the SSID. For security purposes, changing the default network name is highly recommended.

802.11 Mode: Select one of the following:
 802.11n Only - Select if you are only using 802.11n wireless clients.
 Mixed 802.11n, 802.11g and 802.11b - Select if you are using a mix of 802.11n, 11g, and 11b wireless clients.
 Mixed 802.11n, 802.11g - Select if you are only using 802.11n, 11g wireless clients.

Enable Auto Channel Scan: The Auto Channel Scan setting can be selected to allow the DHP-1320 to select the channel with the least amount of interference (during boot-up). Indicates the channel setting for the DHP-1320.

Wireless Channel: The channel can be changed to fit the channel setting for an existing wireless network or to customize the wireless network. If you enable Auto Channel Scan, this option will be grayed out.

DHP-1320 // AP	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
SETUP WIZARD WIRELESS SETUP LAN SETUP PLC SETUP	WIRELESS NETWORK : Use this section to configure the wireless settings for your D-Link Router. Please note that changes made on this section may also need to be duplicated on your Wireless Client. <input type="button" value="Save Settings"/> <input type="button" value="Don't Save Settings"/>				Helpful Hints... Changing your Wireless Network Name is the first step in securing your wireless network. Change it to a familiar name that does not contain any personal information. Enable Auto Channel Scan so that the router can select the best possible channel for your wireless network to operate on. Enabling Hidden Mode is another way to secure your network. With this option enabled, no wireless clients will be able to see your wireless network when they scan to see what's available. For your wireless devices to connect to your router, you will need to manually enter the Wireless Network
WIRELESS NETWORK SETTINGS					
Enable Wireless : <input checked="" type="checkbox"/> Always <input type="button" value="Add New Schedule"/> Wireless Network Name : dlink (Also called the SSID) Wireless Mode : Mixed 802.11n, 802.11g and 802.11b Enable Auto Channel Scan : <input checked="" type="checkbox"/> Wireless Channel : 2.437 GHz - CH 6 Channel Width : 20 MHz Visibility Status : <input checked="" type="radio"/> Visible <input type="radio"/> Invisible					
WIRELESS SECURITY MODE To protect your privacy you can configure wireless security features. This device supports three wireless security modes, including WEP, WPA-Personal, and WPA-Enterprise. WEP is the original wireless encryption standard. WPA provides a higher level of security. WPA-Personal does not require an authentication server. The WPA-Enterprise option requires an external RADIUS server. Security Mode : None					

Channel Width: Select the Channel Width:
Auto 20/40 - Select if you are using both 802.11n and non-802.11n wireless devices.
20MHz - Select if you are not using any 802.11n wireless clients.

Wireless Security Settings: Locking the wireless security settings prevents the settings from being changed by any new external user using its PIN. Devices can still be added to the wireless network using Wi-Fi Protected Setup. It is still possible to change wireless network settings with Manual Wireless Network Setup, Wireless Network Setup Wizard, or an existing external WLAN Manager user. Please refer to page **121**.

Save Settings: Click **Save Settings** to save and activate the new changes.

Network Settings - DHCP

This section will allow you to change the local network settings of the access point and to configure the DHCP settings.

LAN Connection Type: Use the drop-down menu to select Dynamic IP (DHCP) to automatically obtain an IP address on the LAN/private network.

Device Name: Enter the Device Name of the AP. Changing the Device Name is recommended if there is more than one D-Link device within the subnet.

Save Settings: Click **Save Settings** to save and activate the new changes.

DHP-1320 // AP	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
SETUP WIZARD WIRELESS SETUP LAN SETUP PLC SETUP	NETWORK SETTINGS Use this section to configure the internal network settings of your AP. Device Name(NetBIOS Name) allows you to configure this device more easily when your network using TCP/IP protocol. You can enter the device name of the AP into your web browser to access the instead of IP address for configuration. Recommend to change the device name if there're more than one D-Link devices within the subnet. <input type="button" value="Save Settings"/> <input type="button" value="Don't Save Settings"/>				Helpful Hints... LAN Settings: Also referred as private settings. LAN settings allow you to configure LAN interface of DHP-W306AV. LAN IP address is private to your internal network and is not visible to Internet. The factory default setting is Dynamic IP(DHCP). LAN Connection type: The factory default setting is Dynamic IP (DHCP) to allow the DHCP host to automatically assign the Access Point an IP address that conforms to the applied local area network. Enable "Static IP" which allows the IP address of the DHP-W306AV to be manually configured in accordance to the applied local area network. IP Address: The default IP address is 192.168.0.1. It can be modified to conform to an existing local area network. Please note that the IP address of each device in the wireless local area network must be within the same IP address range and subnet mask. Take default DHP-W306AV IP address as an example, each station associated to the AP must be configured with a unique IP address falling in the
	LAN CONNECTION TYPE Choose the mode to be used by the Access Point. My LAN Connection is : <input type="text" value="Dynamic IP (DHCP)"/>				
	DYNAMIC IP(DHCP) LAN CONNECTION TYPE IP Address Information. IP Address : <input type="text" value="192.168.0.1"/> Subnet Mask : <input type="text" value="255.255.255.0"/> Gateway Address : <input type="text" value="0.0.0.0"/>				
	DEVICE NAME(NETBIOS NAME) Device Name : <input type="text" value="dlinkrouter"/>				
	IPv6 CONNECTION TYPE Choose the IPv6 mode to be used by the Access Point. My IPv6 Connection is : <input type="text" value="Link-local only"/>				
	LAN IPv6 ADDRESS SETTINGS : Use this section to configure the internal network settings of your router.The LAN IPv6 Link-Local Address is the IPv6 Address that you use to access the web-based management interface. LAN IPv6 Link-Local Address : FE80::211:22FF:FE07:2717/64				

Network Setup - Static IP

Select Static IP to manually enter the IP address, subnet mask, and default gateway addresses.

LAN Connection Type: Select Static IP from the drop-down menu.

IP Address: Enter the IP address of the access point. The default IP address is 192.168.0.1. If you change the IP address, once you click Apply, you will need to enter the new IP address in your browser to return to the configuration utility.

Subnet Mask: Enter the Subnet Mask.

Default Gateway: Enter the Gateway. This is usually the LAN or internal IP address of your router.

Device Name: Enter the Device Name of the AP. It is recommended that you change the Device Name if there is more than one D-Link device within the subnet. You can enter the device name of the AP into your web browser to access it instead of IP address for configuration. If you are using the device name to connect, make sure that your PC and your DHP-1320 are on the same network.

Save Settings: Click **Save Settings** to save and activate the new changes.

NETWORK SETTINGS

Use this section to configure the internal network settings of your AP. Device Name(NetBIOS Name) allows you to configure this device more easily when your network using TCP/IP protocol. You can enter the device name of the AP into your web browser to access the instead of IP address for configuration. Recommend to change the device name if there're more than one D-Link devices within the subnet.

LAN CONNECTION TYPE

Choose the mode to be used by the Access Point.

My LAN Connection is :

STATIC IP ADDRESS LAN CONNECTION TYPE

Enter the static address Information

IP Address :
Subnet Mask :
Gateway Address :

DEVICE NAME(NETBIOS NAME)

Device Name :

My IPv6 Connection is: Select Link-local only from the drop-down menu.

LAN IPv6 Address settings: This section displays the IPv6 address of the router.

DEVICE NAME(NETBIOS NAME)
Device Name : <input type="text" value="DHP-1320"/>
IPv6 CONNECTION TYPE
Choose the IPv6 mode to be used by the Access Point.
My IPv6 Connection is : <input type="text" value="Link-local only"/>
LAN IPv6 ADDRESS SETTINGS :
Use this section to configure the internal network settings of your router. The LAN IPv6 Link-Local Address is the IPv6 Address that you use to access the web-based management interface.
LAN IPv6 Link-Local Address :

My IPv6 Connection is: Select static IPv6 from the drop-down menu.

LAN IPv6 Address: Enter the LAN (local) IPv6 address for the router.

DEVICE NAME(NETBIOS NAME)
Device Name : <input type="text" value="DHP-1320"/>
IPv6 CONNECTION TYPE
Choose the IPv6 mode to be used by the Access Point.
My IPv6 Connection is : <input type="text" value="Static IPv6"/>
LAN IPv6 ADDRESS SETTINGS :
Enter the IPv6 address information.
IPv6 Address : <input type="text"/>
Subnet Prefix Length : <input type="text"/>
Default Gateway : <input type="text"/>
Primary DNS Address : <input type="text"/>
Secondary DNS Address : <input type="text"/>

My IPv6 Select **Autoconfiguration (Stateless/DHCPv6)** from the **Connection:** drop down menu.

IPv6 DNS Select **Obtain IPv6 DNS Server automatically** or enter a **Settings:** specific DNS Server address.

DEVICE NAME(NETBIOS NAME)	
Device Name :	<input type="text" value="DHP-1320"/>

IPv6 CONNECTION TYPE	
Choose the IPv6 mode to be used by the Access Point.	
My IPv6 Connection is :	<input type="text" value="Autoconfiguration (Stateless/DHCPv6)"/>

IPv6 DNS SETTINGS :	
Obtain DNS server address automatically or enter a specific DNS server address.	
<input checked="" type="radio"/> Obtain IPv6 DNS Servers automatically	
<input type="radio"/> Use the following IPv6 DNS Servers	
Primary DNS Address :	<input type="text"/>
Secondary DNS Address :	<input type="text"/>

Configuration

PLC Settings - AP Mode

This section will show you how to configure your new D-Link PowerLine AV using the web-based configuration utility.

The screenshot displays the configuration interface for a D-Link DHP-1320 device. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar shows menu options: INTERNET, WIRELESS SETTINGS, NETWORK SETTINGS, and PLC SETTINGS. The main content area is titled "POWER LINE SETTING" and contains the following sections:

- POWER LINE SETTING**: A header section with a sub-instruction: "Use this section to configure the power line settings and Qos Settings for your D-Link device." Below this are "Save Settings" and "Don't Save Settings" buttons.
- Network Name**: A section with two radio button options:
 - Public, Network Name is HomePlugAV
 - Private, Network Name is
- Add Member**: A section with a table header:

Device Name	MAC Address	Link Rate(Mbps)
<input type="button" value="Scan"/>		
- Manual Add Member**: A section with input fields for "Device Name" and "Password" (with four character boxes), and an "Add" button.
- Member List**: A section with a table header:

Device Name	MAC Address	Link Rate(Mbps)	Status
- Qos Settings**: A section with a table for configuring Quality of Service:

Name	MAC Address	Priority	
<input type="text"/>	<input type="text"/>	Highest ▾	<input type="button" value="Clear"/>
<input type="text"/>	<input type="text"/>	Highest ▾	<input type="button" value="Clear"/>
<input type="text"/>	<input type="text"/>	Highest ▾	<input type="button" value="Clear"/>
<input type="text"/>	<input type="text"/>	Highest ▾	<input type="button" value="Clear"/>
<input type="text"/>	<input type="text"/>	Highest ▾	<input type="button" value="Clear"/>
<input type="text"/>	<input type="text"/>	Highest ▾	<input type="button" value="Clear"/>
<input type="text"/>	<input type="text"/>	Highest ▾	<input type="button" value="Clear"/>
<input type="text"/>	<input type="text"/>	Highest ▾	<input type="button" value="Clear"/>

Network Name: You can set the name of your network and to make it either public or private. Make sure the Network Name of all of the devices within your PowerLine network is the same.

Public Network Name: Select this option if you would like to make your powerline network public with the default Network Name of "HomePlugAV". Since this is a commonly used Network Name, it is less secure than a private Network Name.

Private Network Name: Select this option if you wish to make your powerline network more secure by using a private Network Name. Type the name of your private PowerLine network in the field.

Scan: Scan for new PowerLine devices.

Add Memeber: This section lets you add new PowerLine AV devices to your PowerLine network. To add a new device, give it a Device Name and enter its Password, then click Add. When you add a device it is given the current Network Name.

Device Name: Type a name you wish to use to identify a specific PowerLine AV device. For example, "Jack's room".

Password: The Password is used to verify that you are authorized to perform changes on a device. You can find the Password printed on the back of your device.

Member List: This section provides information on the PowerLine AV devices in your PowerLine network, or any devices that were previously connected but it are currently disconnected.

Link Rate: Displays the device's current data rate in Mbps.

The screenshot displays the configuration interface for a PowerLine network. It is divided into four main sections:

- Network Name:** This section allows the user to choose between a public network (default name: HomePlugAV) and a private network (with a custom name field).
- Add Member:** This section features a table with columns for Device Name, MAC Address, and Link Rate(Mbps). A Scan button is located below the table.
- Manual Add Member:** This section includes input fields for Device Name and Password (with four character boxes), and an Add button.
- Member List:** This section shows a table with columns for Device Name, MAC Address, Link Rate(Mbps), and Status.

Status: This field shows the status of the device. If the field displays the word Connect, then the device is connected to your PowerLine network. If the field displays the word Disconnect, then the device has been added to the network but it is not ready. Please check its password and make sure the device is powered on.

QoS Setting: You can configure your PowerLine AV devices to give priority to powerline network traffic accordingly. Enter the name, MAC Address, and priority level.

Mac Address: You can find the MAC address printed on the back of your device.

Qos Settings			
Name	MAC Address	Priority	
<input type="text"/>	<input type="text"/>	Highest ▾	Clear
<input type="text"/>	<input type="text"/>	Highest ▾	Clear
<input type="text"/>	<input type="text"/>	Highest ▾	Clear
<input type="text"/>	<input type="text"/>	Highest ▾	Clear
<input type="text"/>	<input type="text"/>	Highest ▾	Clear
<input type="text"/>	<input type="text"/>	Highest ▾	Clear
<input type="text"/>	<input type="text"/>	Highest ▾	Clear

Network Filter

Use MAC (Media Access Control) Filters to authorize wireless clients to access your network by their MAC addresses. When enabled, any client not on the MAC filter list will not be able to access your network.

MAC Address Filter: Select **Enable** or Disable from the drop-down menu.

MAC Address: Enter the MAC address you would like to filter. To find the MAC address on a computer, please refer to the Networking Basics section in this manual. Click **Save Settings** to activate and save.

Note: Make sure to enter the computer you are currently using to configure the access point first or you will not be able to access the configuration utility once you click Save Settings.

Wireless Client List: Select a DHCP client from the drop-down menu and click to copy the MAC Address.

Save Settings: Click **Save Settings** to save and activate the new changes.

The screenshot shows the configuration utility for a DHP-1320 AP. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar lists menu items: NETWORK FILTER, ADVANCED WIRELESS, WI-FI PROTECTED SETUP, and USER LIMIT. The main content area is titled 'MAC ADDRESS FILTER' and contains the following text: 'The MAC (Media Access Controller) Address filter option is used to control network access based on the MAC Address of the network adapter. A MAC address is a unique ID assigned by the manufacturer of the network adapter. This feature can be configured to ALLOW or DENY network/Internet access.' Below this text are 'Save Settings' and 'Don't Save Settings' buttons. A section titled '24 --- WIRELESS ACCESS SETTINGS' contains a dropdown menu for 'Configure MAC Filtering below:' with the option 'Turn MAC Filtering OFF' selected. Below this is a table with two columns: 'MAC Address' and 'Wireless Client List'. The table has eight rows, each with a text input field for the MAC address, a '<<' button, a 'Wireless Client List' dropdown menu, and a 'Clear' button. The 'Wireless Client List' dropdowns are currently set to 'MAC Address'. To the right of the main content area is a 'Helpful Hints...' section with the following text: 'Create a list of MAC addresses that you would either like to allow or deny access to your network. Select a MAC address from the drop down menu, then click the arrow to add that MAC address to the list. Click the Clear button to remove the MAC address from the MAC Filtering list. More...'

Advanced Wireless

Transmit Power: Sets the transmit power of the antennas.

Note: Transmit power is regulated by international standard. Users are forbidden to change its maximum limit.

WLAN Partition: Select this checkbox to enable WLAN partition. If this feature is enabled, then there is no barrier between communication among wireless stations connecting to the Access Point. If this is disabled, wireless clients are not allowed to exchange data through the Access Point.

WMM Enable: WMM is a Quality of Service (QoS) system for your wireless network. Enabling this feature will improve the quality of video and ice applications for your wireless clients.

Short GI: Check this box to reduce the guard interval time therefore increasing the data capacity. However, this setting less reliable and may create higher data loss.

DHP-1320 // AP	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
NETWORK FILTER	ADVANCED WIRELESS				Helpful Hints... It is recommended that you leave these parameters at their default values. Adjusting them could limit the performance of your wireless network. Use 802.11d only for countries where it is required. Enabling WMM can help control latency and jitter when transmitting multimedia content over a wireless
ADVANCED WIRELESS	If you are not familiar with these Advanced Wireless settings, please read the help section before attempting to modify these settings.				
WI-FI PROTECTED SETUP	<input type="button" value="Save Settings"/> <input type="button" value="Don't Save Settings"/>				
USER LIMIT	ADVANCED WIRELESS SETTINGS				
	Transmit Power : <input type="text" value="High"/>				
	WLAN Partition : <input type="checkbox"/>				
	WMM Enable : <input checked="" type="checkbox"/>				
	Short GI : <input checked="" type="checkbox"/>				

Wi-Fi Protect Setup

Wi-Fi Protect Setup: Enables the Wi-Fi Protected Setup feature.

Reset to Unconfigure: Restores the default Wi-Fi setup.

Current PIN: Shows the current value of the access point's PIN.

Generate New PIN: Create a random number that is a valid PIN. This becomes the access point's PIN. You can then copy this PIN to the user interface of the user.

Reset PIN to Default: Restores the default PIN of the access point.

DHP-1320 // AP	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
<ul style="list-style-type: none"> NETWORK FILTER ADVANCED WIRELESS WI-FI PROTECTED SETUP USER LIMIT 	<div style="border: 1px solid orange; padding: 5px;"> <p>WI-FI PROTECTED SETUP</p> <p>Wi-Fi Protected Setup is used to easily add devices to a network using a PIN or button press. Devices must support Wi-Fi Protected Setup in order to be configured by this method.</p> <p> <input type="button" value="Save Settings"/> <input type="button" value="Don't Save Settings"/> </p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>WI-FI PROTECTED SETUP</p> <p> Enable : <input checked="" type="checkbox"/> </p> <p> Lock Wireless Security Settings : <input type="checkbox"/> <input type="button" value="Reset to Unconfigured"/> </p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>PIN SETTINGS</p> <p> Current PIN : 93922852 <input type="button" value="Generate New PIN"/> <input type="button" value="Reset PIN to Default"/> </p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>ADD WIRELESS STATION</p> <p> <input type="button" value="Add Wireless Device with WPS"/> </p> </div>				<p>Helpful Hints...</p> <p>Enable if other wireless devices you wish to include in the local network support Wi-Fi Protected Setup.</p> <p>Only "Admin" account can change security settings.</p> <p>Lock Wireless Security Settings after all wireless network devices have been configured.</p> <p>Click Add Wireless Device Wizard to use Wi-Fi Protected Setup to add wireless devices to the wireless network.</p> <p>More...</p>

Add Wireless Device with WPS

Adding a Wireless Device Using the PIN Method

Please select one of the following configuration methods and click **Next** to continue.

ADD WIRELESS DEVICE WITH WPS(WI-FI PROTECTED SETUP)

There are two ways to add wireless device to your wireless network:

- PIN (Personal Identification Number)
- PBC (Push Button Configuration)

PIN :

Please enter the PIN from your wireless device and click the below "Connect" button

PBC

Please press the push button on your wireless device and press the "Connect" button below within 120 seconds

Adding a Wireless Device Using the PBC Method

Select PBC to use Push Button Configuration in order to connect to your network.

Click **Connect** to continue.

ADD WIRELESS DEVICE WITH WPS (WIFI PROTECTED SETUP) WIZARD

There are two ways to add wireless device to your wireless network :

- PIN(Personal Identification Number)
- PBC(Push Button Configuration)

PIN :

please enter the PIN from your wireless device and click the below 'Connect' Button

PBC

please press the push button on your wireless device and click the below 'Connect' Button within 120 seconds

Press the WPS Button on the wireless device that you are adding to your network to complete the setup.

VIRTUAL PUSH BUTTON

Please press down the Push Button (physical or virtual) on the wireless device you are adding to your wireless network within **113** seconds...

User Limit Settings

In this section, you may set a limit to the number of wireless clients to prevent heavy wireless traffic.

DHP-1320 // AP	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
NETWORK FILTER	USER LIMIT SETTINGS				Helpful Hints... User Limit can set a limit upon the number of wireless clients. Using user limit, you can prevent scenarios where the DHP-W306AV in your network shows performance degradation because it is handling heavy wireless traffic.
ADVANCED WIRELESS	Please Apply the settings to limit how many wireless stations connecting to AP.				
WI-FI PROTECTED SETUP	<input type="button" value="Save Settings"/> <input type="button" value="Don't Save Settings"/>				
USER LIMIT	USER LIMIT SETTINGS				
	Enable User Limit : <input type="checkbox"/>				
	User Limit(1 - 32) : <input type="text" value="0"/>				

Admin

This page will allow you to change the Administrator password. The administrator password has read/write access.

Password: Enter a new password for the Admin User Name. The administrator account can change the configuration of the device.

Verify Password: Enter the same password that you entered in the previous textbox in order to confirm its accuracy.

System Name: Enter DHP-1320.

Enable Graphical: Enables a challenge-response test which will require users to type letters or numbers from a distorted image displayed on the screen to prevent online hackers and unauthorized users from gaining access to your device's configuration. This feature is disabled by default.

Save Settings: Click **Save Settings** to save and activate the new changes.

DHP-1320 // AP	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
ADMIN	ADMINISTRATOR SETTINGS				Helpful Hints... For security reasons, it is recommended that you change the password for the Admin and User accounts. Be sure to write down the new passwords to avoid having to reset the router in case they are forgotten. Enabling Remote Management, allows you or others to change the router configuration from a computer on the Internet. Choose a port to open for remote management. Select a filter that controls access as needed for this admin port. If you do not see the filter you need in the list of filters, go to the Advanced → Inbound Filter screen and create a new filter. More...
TIME	The 'admin' and 'user' accounts can access the management interface. The admin has read/write access and can change passwords, while the user has read-only access. By default there is no password configured. It is highly recommended that you create a password to keep your router secure. <input type="button" value="Save Settings"/> <input type="button" value="Don't Save Settings"/>				
SYSTEM	ADMIN PASSWORD				
FIRMWARE	Please enter the same password into both boxes, for confirmation. Password : <input type="text"/> Verify Password : <input type="text"/>				
SCHEDULES	USER PASSWORD				
	Please enter the same password into both boxes, for confirmation. Password : <input type="text"/> Verify Password : <input type="text"/>				
	SYSTEM NAME				
	Gateway Name : <input type="text" value="DHP-1320"/>				
	ADMINISTRATION				
	Enable Graphical Authentication : <input type="checkbox"/>				

Time

This page will allow you to change the Administrator password. The administrator password has read/write access.

Time Zone: Select the Time Zone from the drop-down menu.

Daylight Saving: To select Daylight Saving time manually, select enabled or disabled, and enter a start date and an end date for daylight saving time.

Enable NTP Server: NTP is short for Network Time Protocol. NTP synchronizes computer clock times in a network of computers. Check this box to use a NTP server. This will only connect to a server on the Internet, not a local server.

NTP Server Used: Enter the NTP server or select one from the drop down menu.

Manual: To manually input the time, enter the values in these fields for the Year, Month, Day, Hour, Minute, and Second and then click **Set Time**. You can also click **Copy Your Computer's Time Settings**.

DHP-1320 // AP	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
ADMIN	TIME				Helpful Hints...
TIME	<p>The Time Configuration option allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in and set the NTP (Network Time Protocol) Server. Daylight Saving can also be configured to adjust the time when needed</p> <p>Save Settings Don't Save Settings</p>				Good timekeeping is important for accurate logs and scheduled firewall rules.
SYSTEM	TIME CONFIGURATION				More...
FIRMWARE	<p>Time : Thursday, September 02, 2010 7:36:14 PM</p> <p>Time Zone : (GMT-08:00) Pacific Time (US/Canada), Tijuana</p> <p>Enable Daylight Saving : <input type="checkbox"/></p> <p>Daylight Saving Dates : DST Start Mar 3rd Sun 1 am</p> <p>DST End Nov 2nd Sun 1 am</p>				
SCHEDULES	AUTOMATIC TIME CONFIGURATION				
	<p>Enable NTP Server : <input type="checkbox"/></p> <p>NTP Server Used : << Select NTP Server</p>				
	SET THE DATE AND TIME MANUALLY				
	<p>Date And Time : Year 2010 Month Sep Day 2</p> <p>Hour 07 Minute 24 Second 47 PM</p> <p>Copy Your Computer's Time Settings</p>				

System Settings

Save Settings to Local Hard Drive: Use this option to save the current router configuration settings to a file on the hard disk of the computer you are using. First, click the **Save** button. You will then see a file dialog, where you can select a location and file name for the settings.

Load Settings from Local Hard Drive: Use this option to load previously saved router configuration settings. First, use the Browse control to find a previously save file of configuration settings. Then, click the **Load** button to transfer those settings to the router.

Restore to Factory Default Settings: This option will restore all configuration settings back to the settings that were in effect at the time the router was shipped from the factory. Any settings that have not been saved will be lost, including any rules that you have created. If you want to save the current router configuration settings, use the **Save** button above.

Reboot Device: Click to reboot the router.

The screenshot shows the web interface for a DHP-1320 AP. The top navigation bar includes tabs for SETUP, ADVANCED, TOOLS, STATUS, and SUPPORT. The left sidebar contains a menu with options: ADMIN, TIME, SYSTEM, FIRMWARE, and SCHEDULES. The main content area is titled "SYSTEM SETTINGS" and contains the following text and buttons:

SYSTEM SETTINGS

The System Settings section allows you to reboot the device, or restore the router to the factory default settings. Restoring the unit to the factory default settings will erase all settings, including any rules that you have created.

The current system settings can be saved as a file onto the local hard drive. The saved file or any other saved setting file created by device can be uploaded into the unit.

Save To Local Hard Drive:

Load From Local Hard Driver:

Restore To Factory Default: Restore all settings to the factory defaults.

Reboots the Device:

Helpful Hints...

Once your router is configured the way you want it, you can save the configuration settings to a configuration file.

You might need this file so that you can load your configuration later in the event that the router's default settings are restored.

To save the configuration, click the **Save Configuration** button.

[More...](#)

Firmware

You can upgrade the firmware of the access point from this page. Make sure the firmware you would like to use is on the local hard drive of your computer. Click **Browse...** to locate the firmware file to be used for the update. Please check the D-Link support site for firmware updates at <http://support.dlink.com>. You can download firmware upgrades to your hard drive from the D-Link support site.

Firmware Information: Click on the **Check Now** button to find out if there is an updated firmware or language pack version. If a new version exists, download the new firmware to your hard drive.

Firmware Upgrade: After you have downloaded the new firmware, click Browse to locate the firmware update on your hard drive. Click **Upload** to complete the firmware upgrade.

Notification Options: Check Online for the latest firmware version in order to have your router check automatically for new firmware upgrades.

DHP-1320 // AP	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
ADMIN	<div style="background-color: #f4a460; padding: 5px;">FIRMWARE</div> <p>There may be new firmware for your DHP-1320 to improve functionality and performance.</p> <p>To upgrade the firmware, locate the upgrade file on the local hard drive with the Browse button. Once you have found the file to be used, click the Upload button below to start the firmware upgrade.</p> <div style="background-color: #333; color: white; padding: 5px;">FIRMWARE INFORMATION</div> <p>Current Firmware Version : 1.00NA Current Firmware Date : Thu, 02, Sep, 2010</p> <p>Check Online Now for Latest Firmware Version : <input type="button" value="Check Now"/></p> <div style="background-color: #333; color: white; padding: 5px;">FIRMWARE UPGRADE</div> <p>Note: Some firmware upgrades reset the configuration options to the factory defaults. Before performing an upgrade, be sure to save the current configuration from the Tools → System screen.</p> <p>To upgrade the firmware, your PC must have a wired connection to the router. Enter the name of the firmware upgrade file, and click on the Upload button.</p> <p><input type="text"/> <input type="button" value="Browse..."/></p> <p><input type="button" value="Upload"/></p>				Helpful Hints...
TIME					<p>Firmware updates are released periodically to improve the functionality of your router and to add features. If you run into a problem with a specific feature of the router, check if updated firmware is available for your router.</p> <p>More...</p>
SYSTEM					
FIRMWARE					
SCHEDULES					

Schedules

Schedules can be created for use with enforcing rules. For example, if you would like to restrict web access to Mon-Fri from 3:00 p.m. to 8:00 p.m., you could create a schedule selecting Mon, Tue, Wed, Thu, and Fri and enter a StartTime of 3:00 p.m. and End Time of 8:00 p.m.

- Name:** Enter a name for your new schedule.
- Days:** Select a day, a range of days, or All Week to include every day.
- Time:** Check All Days or enter a start and end time for your schedule.
- Add:** After making your changes, click **Save** to save the schedule rule.
- Schedule Rules**
- List:** The list of schedules will be listed here. Click the **Edit** icon to make changes or click the **Delete** icon to remove the schedule.

DHP-1320 // AP SETUP ADVANCED **TOOLS** STATUS SUPPORT

ADMIN
TIME
SYSTEM
FIRMWARE
SCHEDULES

SCHEDULES

The Schedule configuration option is used to manage schedule rules for various firewall and parental control features.

Save Settings Don't Save Settings

10 - ADD SCHEDULE RULE

Name :

Day(s) : All Week Select Day(s)

Sun Mon Tue Wed Thu Fri Sat

All Day - 24 hrs :

Time format : 24-hour

Start Time : 12 : 00 AM (hour:minute, 12 hour time)

End Time : 12 : 00 AM (hour:minute, 12 hour time)

SCHEDULE RULES LIST :

Name :	Day(s) :	Time Frame :
--------	----------	--------------

Helpful Hints...

Schedules are used with a number of other features to define when those features are in effect.

Give each schedule a name that is meaningful to you. For example, a schedule for Monday through Friday from 3:00pm to 9:00pm, might be called "After School".

Click **Save** to add a completed schedule to the list below.

Click **Edit** icon to change an existing schedule.

Click **Delete** icon to permanently delete a schedule.

Device Info

This page displays the current information for the DHP-W306AV. It will display the LAN and wireless LAN information.

General: Displays the access point's time and firmware version.

LAN: Displays the MAC address and the private (local) IP settings for the access point.

Wireless LAN: Displays the wireless MAC address and your wireless settings such as SSID and Channel.

DHP-1320 // AP	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
DEVICE INFO	DEVICE INFORMATION				Helpful Hints... All of your WAN and LAN connection details are displayed here. More...
LOGS	All of your Internet and network connection details are displayed on this page. The firmware version is also displayed here.				
STATISTICS	GENERAL				
INTERNET SESSIONS	Time : Thursday, September 02, 2010 7:07:37 PM Firmware Version : 1.001A, Thu, 02, Sep, 2010				
ROUTING	LAN				
WIRELESS	MAC Address : 00:11:22:07:27:17 IP Address : 10.0.8.219 Subnet Mask : 255.255.255.0 Default Gateway : 10.0.8.1				
IPv6	WIRELESS LAN				
	Wireless Radio : Enabled MAC Address : 00:11:22:07:27:17 Network Name (SSID) : dlink Channel : 1 Security Mode : disable				

Logs

The DHP-W306AV keeps a running log of events and activities occurring on the AP. If the AP is rebooted, the logs are automatically cleared. You can save the log files under Log Settings.

Log Options: You can select the types of messages that you would like to display from the log: System Activity, Debug Information, Attacks, Dropped Packets, and Notice. Select the types you want to view and click Apply Log Settings Now.

First Page: This button directs you to the first page of the log.

Last Page: This button directs you to the last page of the log.

Previous: This button directs you to the previous page of the log.

Next: This button directs you to the next page of the log.

Clear: This button clears all current log content.

Log Settings: This button opens a new menu where you can configure the log settings.

Refresh: This button refreshes the log.

DHP-1320 // AP **SETUP** **ADVANCED** **TOOLS** **STATUS** **SUPPORT**

LOGS

Use this option to view the router logs. You can define what types of events you want to view and the event levels to view. This router also has internal syslog server support so you can send the log files to a computer on your network that is running a syslog utility.

LOG OPTIONS

Log Type : System Activity
 Debug Information
 Attacks
 Dropped Packets
 Notice

[Apply Log Settings Now](#)

LOG DETAILS

[First Page](#) [Last Page](#) [Previous](#) [Next](#)
[Refresh](#) [Clear](#) [Email Now](#) [Save Log](#)

1 / 13

Time	Message
Sep 2 17:21:58	ath0: STA 00:1f:3c:6f:73:2c IEEE 802.11: associated
Sep 2 17:21:58	ath0: STA 00:1f:3c:6f:73:2c IEEE 802.11: disassociated
Sep 2 17:21:23	ath0: STA 00:1f:3c:6f:73:2c IEEE 802.11: associated
Sep 2 17:21:23	ath0: STA 00:1f:3c:6f:73:2c IEEE 802.11: disassociated
Sep 2 17:21:22	ath0: STA 00:1f:3c:6f:73:2c IEEE 802.11: disassociated
Sep 2 17:21:22	ath0: STA 00:1f:3c:6f:73:2c IEEE 802.11: disassociated
Sep 2 17:20:45	ath0: STA 00:1f:3c:6f:73:2c IEEE 802.11: associated

Helpful Hints...

Check the log frequently to detect unauthorized network usage.

You can also have the log mailed to you periodically. Refer to [Tools → EMail](#).

[More...](#)

Statistics

The DHP-1360 keeps statistics of the traffic that passes through it. You can view the amount of packets that pass through the LAN and wireless portions of the network. The traffic counter will reset if the access point is rebooted.

Refresh Statistics: Click the **Refresh** button to refresh the Access Point's traffic statistics.

DHP-1320 // AP	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT																								
DEVICE INFO LOGS STATISTICS INTERNET SESSIONS ROUTING WIRELESS IPv6	<div style="background-color: #f4a460; padding: 2px;">TRAFFIC STATISTICS</div> <p>Traffic Statistics display Receive and Transmit packets passing through your router.</p> <p> <input type="button" value="Refresh Statistics"/> <input type="button" value="Clear Statistics"/> </p> <div style="background-color: #333; color: white; padding: 2px;">LAN STATISTICS</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">Sent : 131589</td> <td style="text-align: right;">Received : 125408</td> </tr> <tr> <td style="text-align: right;">TX Packets : 0</td> <td style="text-align: right;">RX Packets : 0</td> </tr> <tr> <td style="text-align: right;">Dropped : 0</td> <td style="text-align: right;">Dropped : 0</td> </tr> <tr> <td style="text-align: right;">Collisions : 0</td> <td style="text-align: right;">Errors : 0</td> </tr> </table> <div style="background-color: #333; color: white; padding: 2px;">WAN STATISTICS</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">Sent : 0</td> <td style="text-align: right;">Received : 0</td> </tr> <tr> <td style="text-align: right;">TX Packets : 0</td> <td style="text-align: right;">RX Packets : 0</td> </tr> <tr> <td style="text-align: right;">Dropped : 0</td> <td style="text-align: right;">Dropped : 0</td> </tr> <tr> <td style="text-align: right;">Collisions : 0</td> <td style="text-align: right;">Errors : 0</td> </tr> </table> <div style="background-color: #333; color: white; padding: 2px;">WIRELESS STATISTICS</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">Sent : 3994</td> <td style="text-align: right;">Received : 324</td> </tr> <tr> <td style="text-align: right;">TX Packets : 8489</td> <td style="text-align: right;">RX Packets : 0</td> </tr> <tr> <td style="text-align: right;">Dropped : 0</td> <td style="text-align: right;">Dropped : 0</td> </tr> <tr> <td></td> <td style="text-align: right;">Errors : 0</td> </tr> </table>				Sent : 131589	Received : 125408	TX Packets : 0	RX Packets : 0	Dropped : 0	Dropped : 0	Collisions : 0	Errors : 0	Sent : 0	Received : 0	TX Packets : 0	RX Packets : 0	Dropped : 0	Dropped : 0	Collisions : 0	Errors : 0	Sent : 3994	Received : 324	TX Packets : 8489	RX Packets : 0	Dropped : 0	Dropped : 0		Errors : 0	<p>Helpful Hints...</p> <p>This is a summary of the number of packets that have passed between the WAN and the LAN since the router was last initialized.</p> <p>More...</p>
Sent : 131589	Received : 125408																												
TX Packets : 0	RX Packets : 0																												
Dropped : 0	Dropped : 0																												
Collisions : 0	Errors : 0																												
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Collisions : 0	Errors : 0																												
Sent : 3994	Received : 324																												
TX Packets : 8489	RX Packets : 0																												
Dropped : 0	Dropped : 0																												
	Errors : 0																												

Wireless

This section allows you to view the wireless clients that are connected to your wireless access point.

DHP-1320 // AP	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT								
DEVICE INFO	WIRELESS Use this option to view the wireless clients that are connected to your wireless router.				Helpful Hints... This is a list of all wireless clients that are currently connected to your wireless router. More...								
LOGS													
STATISTICS													
INTERNET SESSIONS													
ROUTING													
WIRELESS	NUMBER OF WIRELESS CLIENTS : 0												
IPv6	<table border="1"> <thead> <tr> <th>MAC Address</th> <th>IP Address</th> <th>Mode</th> <th>Rate</th> <th>Signal(%)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	MAC Address	IP Address	Mode	Rate	Signal(%)							
MAC Address	IP Address	Mode	Rate	Signal(%)									

IPv6

This section will display all of your IPv6 Internet and network connection details.

DHP-1320 // AP	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT			
<ul style="list-style-type: none"> DEVICE INFO LOGS STATISTICS INTERNET SESSIONS ROUTING WIRELESS IPv6 	<p>IPv6 Network Information</p> <p>All of your IPv6 Internet and network connection details are displayed on this page.</p>			<p>Helpful Hints...</p> <p>All of your WAN and LAN connection details are displayed here.</p> <p>More...</p>				
<p>IPv6 Connection Information</p> <p>IPv6 Connection Type : Link Local IPv6 Default Gateway : None LAN IPv6 Link-Local Address : fe80::211:22ff:fe07:2717/64 DHCP-PD : Disabled</p>								
<p>LAN IPv6 Computers</p> <table border="1"> <thead> <tr> <th>Name (if any)</th> <th>MAC</th> <th>IPv6 Address</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			Name (if any)		MAC	IPv6 Address		
Name (if any)	MAC	IPv6 Address						

Support

DHP-1320 // AP	SETUP	ADVANCED	TOOLS	STATUS	SUPPORT
MENU SETUP ADVANCED TOOLS STATUS	SUPPORT MENU				
	<ul style="list-style-type: none"> • Setup • Advanced • Tools • Status 				
	SETUP HELP				
	<ul style="list-style-type: none"> • Internet Connection • WAN • Wireless 				
	ADVANCED HELP				
<ul style="list-style-type: none"> • Virtual Server • Port Forwarding • Application Rules • QoS Engine • Network Filter • Access Control • Website Filter • Inbound Filter • Firewall Settings • Routing • Advanced Wireless • Wi-Fi Protected Setup • Advanced Network • IPv6 					
TOOLS HELP					
<ul style="list-style-type: none"> • Admin • Time • Syslog • Email Settings • System • Firmware • Dynamic DNS • System Check • Schedules 					
STATUS					
<ul style="list-style-type: none"> • Device Info • Logs • Statistics • Internet Sessions • Routing • Wireless • IPv6 					

Wireless Security

This section will show you the different levels of security you can use to protect your data from intruders. The DHP-1320 offers the following types of security:

- WPA2 (Wi-Fi Protected Access 2)
- WPA (Wi-Fi Protected Access)
- WPA2-PSK (Pre-Shared Key)
- WPA-PSK (Pre-Shared Key)

What is WPA?

WPA (Wi-Fi Protected Access), is a Wi-Fi standard that was designed to improve the security features of WEP (Wired Equivalent Privacy).

The 2 major improvements over WEP:

- Improved data encryption through the Temporal Key Integrity Protocol (TKIP). TKIP scrambles the keys using a hashing algorithm and, by adding an integrity-checking feature, ensures that the keys haven't been tampered with. WPA2 is based on 802.11i and uses Advanced Encryption Standard (AES) instead of TKIP.
- User authentication, which is generally missing in WEP, through the extensible authentication protocol (EAP). WEP regulates access to a wireless network based on a computer's hardware-specific MAC address, which is relatively simple to be sniffed out and stolen. EAP is built on a more secure public-key encryption system to ensure that only authorized network users can access the network.

WPA-PSK/WPA2-PSK uses a passphrase or key to authenticate your wireless connection. The key is an alpha-numeric password between 8 and 63 characters long. The password can include symbols (!?*&_) and spaces. This key must be the exact same key entered on your wireless router or access point.

WPA/WPA2 incorporates user authentication through the Extensible Authentication Protocol (EAP). EAP is built on a more secure public key encryption system to ensure that only authorized network users can access the network.

Configure WEP

It is recommended to enable encryption on your wireless router before your wireless network adapters. Please establish wireless connectivity before enabling encryption. Your wireless signal may degrade when enabling encryption due to the added overhead.

1. Log into the web-based configuration by opening a web browser and entering the IP address of the router (192.168.0.1).
2. Click on **Setup** and then click **Wireless Settings** on the left side.
3. Click the **Manual Wireless Connection Setup** button.
4. Next to *Security Mode*, select **Enable WEP Wireless Security (basic)**.
5. Next to *WEP Encryption*, select **64bit** or **128bit**.
6. Next to *Default WEP Key*, select the WEP key you would like to use as the default WEP key. The available options are **WEP Key 1**, **WEP Key 2**, **WEP Key 3**, or **WEP Key 4**.
7. Enter the WEP key you would like to use in the *WEP Key* field.
8. Click **Save Settings** to save your settings. If you are configuring the router with a wireless adapter, you will lose connectivity until you enable WEP on your adapter and enter the same WEP key as you did on the router.

WIRELESS SECURITY MODE

Security Mode :

WEP

WEP is the wireless encryption standard. To use it you must enter the same key(s) into the router and the wireless stations. For 64-bit keys you must enter 10 hex digits into each key box. For 128-bit keys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 to 9 or a letter from A to F. For the most secure use of WEP set the authentication type to "Shared Key" when WEP is enabled.

You may also enter any text string into a WEP key box, in which case it will be converted into a hexadecimal key using the ASCII values of the characters. A maximum of 5 text characters can be entered for 64-bit keys, and a maximum of 13 characters for 128-bit keys.

Authentication :

WEP Encryption :

Default WEP Key :

WEP Key : (5 ASCII or 10 HEX)

Configure WPA/WPA2-Personal (PSK)

It is recommended to enable encryption on your wireless router before your wireless network adapters. Please establish wireless connectivity before enabling encryption. Your wireless signal may degrade when enabling encryption due to the added overhead.

1. Log into the web-based configuration by opening a web browser and entering the IP address of the router (192.168.0.1).
2. Click on **Setup** and then click **Wireless Settings** on the left side.
3. Click the **Manual Wireless Connection Setup** button.
4. Next to *Security Mode*, select **Enable WPA/WPA2 Wireless Security (enhanced)**.
5. Next to *Cipher Type*, select **Auto (TKIP/AES)**, **TKIP**, or **AES**.
6. Next to *PSK/EAP*, select **PSK**.
7. Enter the **WPA network key** you would like to use in the *Network Key* field.
8. Click **Save Settings** to save your settings. If you are configuring the router with a wireless adapter, you will lose connectivity until you enable WPA-PSK on your adapter and enter the same passphrase as you did on the router.

WIRELESS SECURITY MODE

Security Mode :

WPA/WPA2

WPA/WPA2 requires stations to use high grade encryption and authentication.

Cipher Type :

PSK / EAP :

Network Key :

(8~63 ASCII or 64 HEX)

Configure WPA/WPA2-Enterprise (RADIUS)

It is recommended to enable encryption on your wireless router before your wireless network adapters. Please establish wireless connectivity before enabling encryption. Your wireless signal may degrade when enabling encryption due to the added overhead.

1. Log into the web-based configuration by opening a web browser and entering the IP address of the router (192.168.0.1).
2. Click on **Setup** and then click **Wireless Settings** on the left side.
3. Click the **Manual Wireless Connection Setup** button.
4. Next to *Security Mode*, select **Enable WPA/WPA2 Wireless Security (enhanced)**.
5. Next to *Cipher Type*, select **Auto (TKIP/AES)**, **TKIP**, or **AES**.
6. Next to *PSK/EAP*, select **EAP**.
7. Next to *RADIUS Server IP Address* enter the IP Address of your RADIUS server.
8. Next to *Port*, enter the port you are using with your RADIUS server. 1812 is the default port.
9. Next to *Shared Secret*, enter the security key.
10. Click **Save Settings** to save your settings.

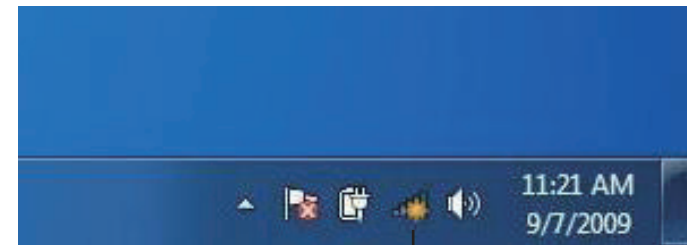
The screenshot displays the 'WIRELESS SECURITY MODE' section of a router's configuration page. The 'Security Mode' is set to 'Enable WPA/WPA2 Wireless Security (enhanced)'. Below this, the 'WPA/WPA2' section is active, showing a note that WPA/WPA2 requires high-grade encryption and authentication. The 'Cipher Type' is set to 'AUTO(TKIP/AES)', and 'PSK / EAP' is set to 'EAP'. There are input fields for 'RADIUS Server IP Address', 'Port', and 'Shared Secret'.

WIRELESS SECURITY MODE	
Security Mode :	Enable WPA/WPA2 Wireless Security (enhanced) ▼
WPA/WPA2	
WPA/WPA2 requires stations to use high grade encryption and authentication.	
Cipher Type :	AUTO(TKIP/AES) ▼
PSK / EAP :	EAP ▼
RADIUS Server IP Address :	<input type="text"/>
Port :	<input type="text"/>
Shared Secret :	<input type="text"/>

Connect to a Wireless Network Using Windows® 7

It is recommended to enable wireless security (WPA/WPA2) on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the security key or passphrase being used.

1. Click on the wireless icon in your system tray (lower-right corner).



Wireless Icon

2. The utility will display any available wireless networks in your area.

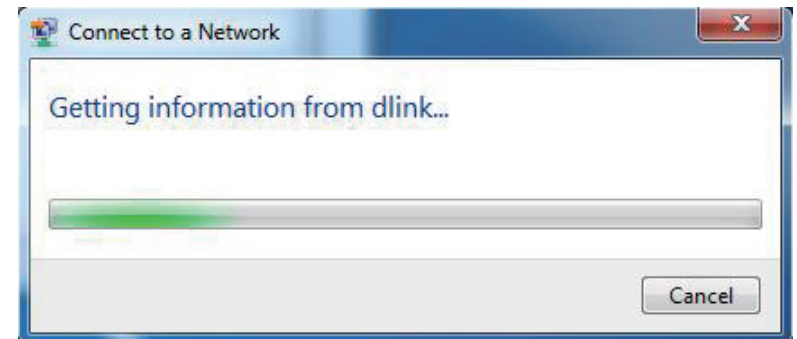


3. Highlight the wireless network (SSID) you would like to connect to and click the **Connect** button.

If you get a good signal but cannot access the Internet, check your TCP/IP settings for your wireless adapter. Refer to the Networking Basics section in this manual for more information.

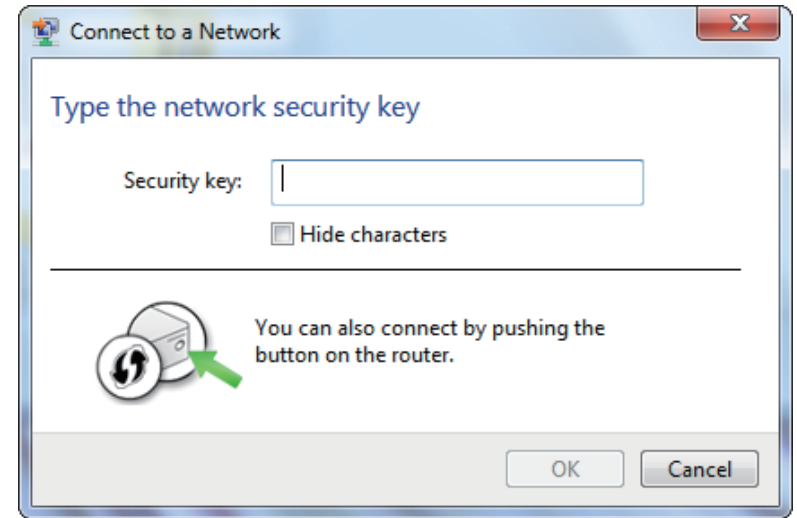


4. The following window appears while your computer tries to connect to the router.



5. Enter the same security key or passphrase that is on your router and click **Connect**. You can also connect by pushing the WPS button on the router.

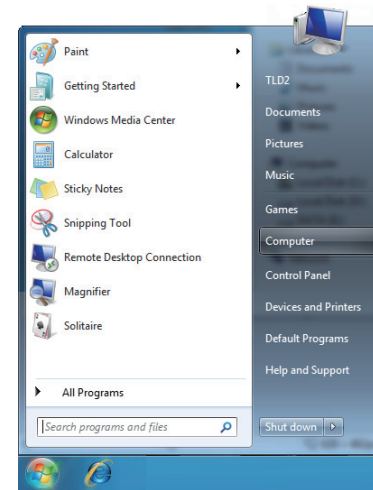
It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as on the wireless router.



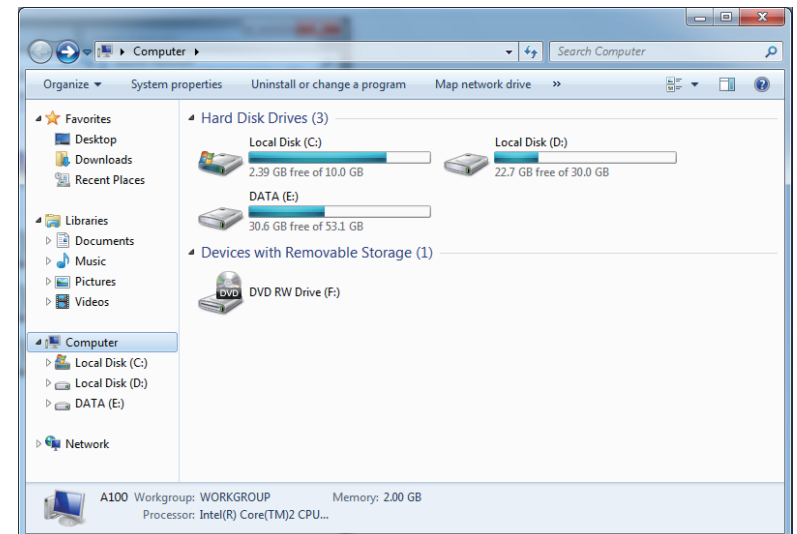
Configure WPS

The WPS feature of the router can be configured using Windows® 7. Carry out the following steps to use Windows® 7 to configure the WPS feature of the router:

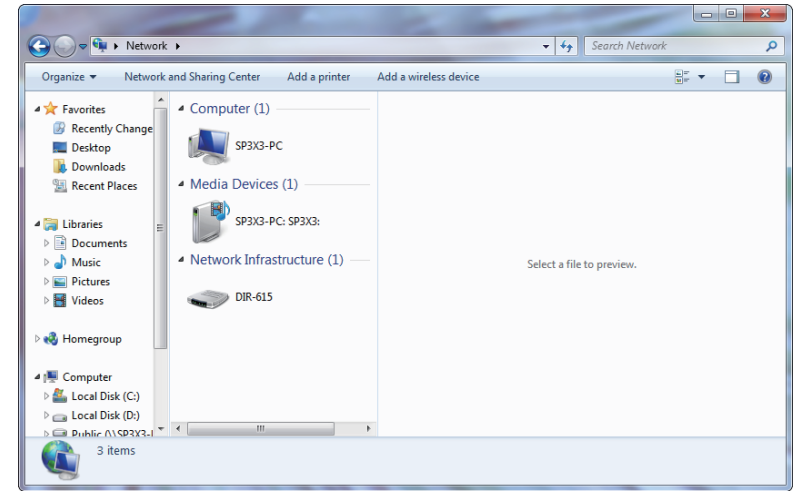
1. Click the **Start** button and select **Computer** from the Start menu.



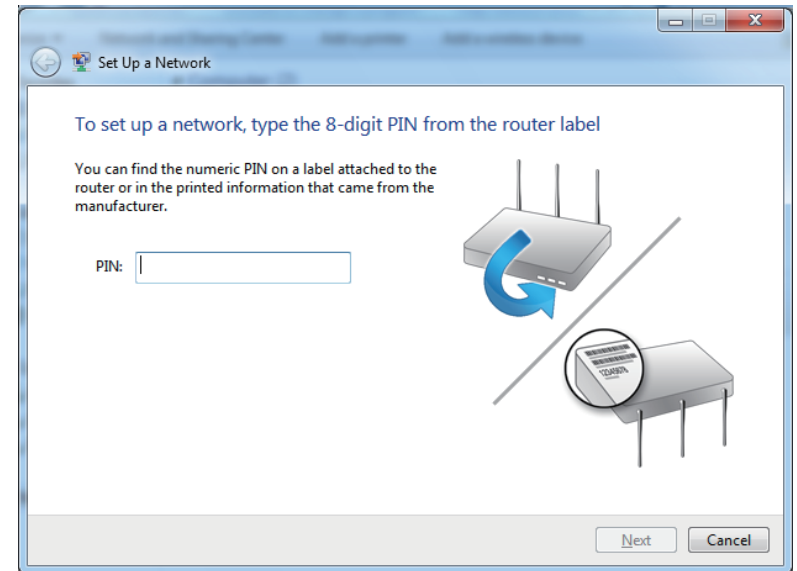
2. Click the **Network** option.



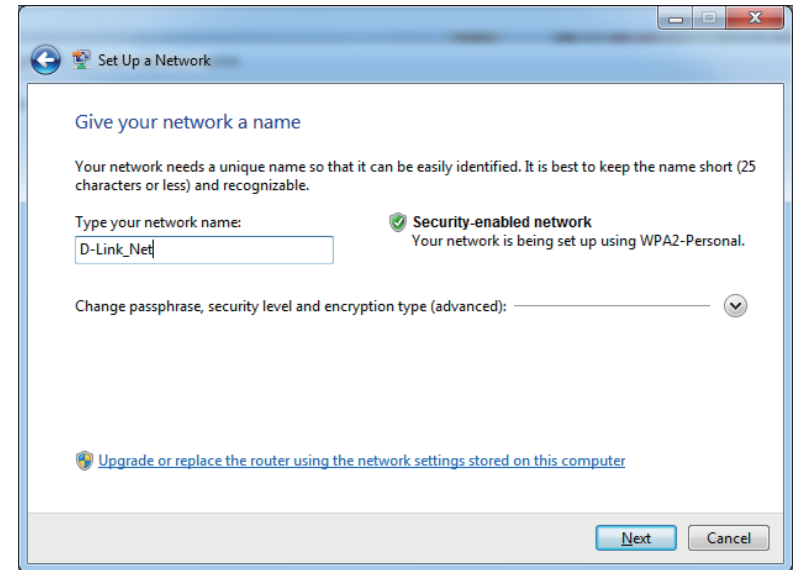
3. Double-click the DHP-1320.




4. Input the WPS PIN number (displayed in the WPS window on the Router's LCD screen or in the **Setup > Wireless Setup** menu in the Router's Web UI) and click **Next**.

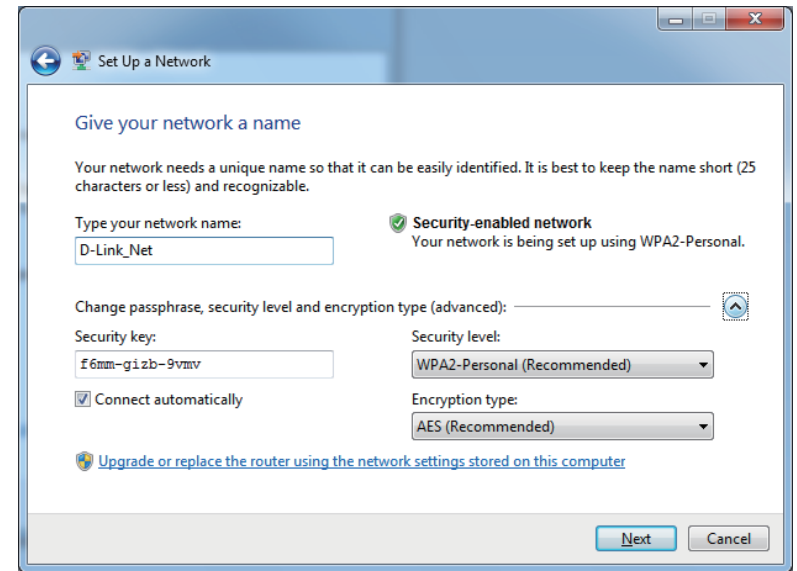


5. Type a name to identify the network.



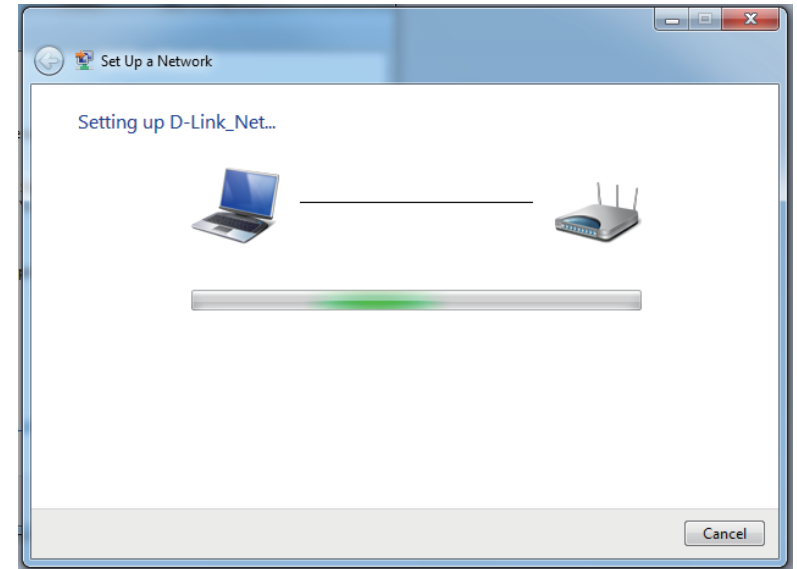
6. To configure advanced settings, click the  icon.

Click **Next** to continue.



7. The following window appears while the Router is being configured.

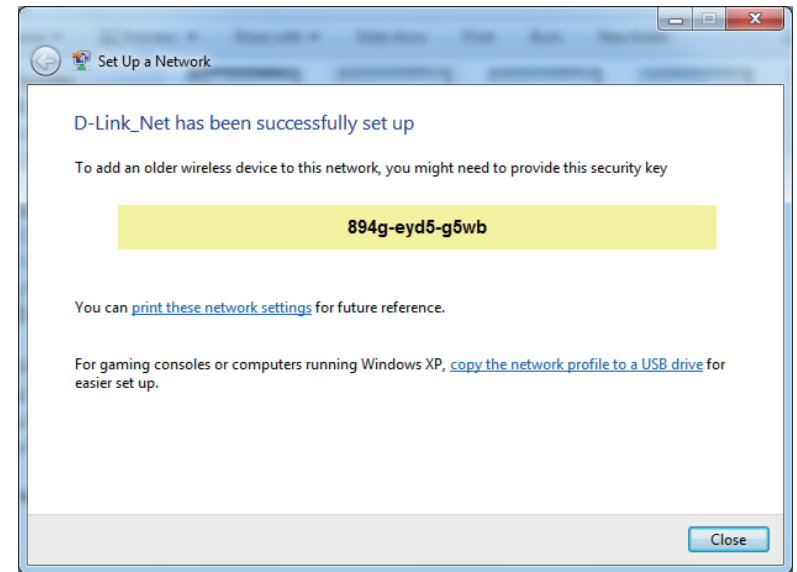
Wait for the configuration to complete.



8. The following window informs you that WPS on the DHP-1320 has been setup successfully.

Make a note of the security key as you may need to provide this security key if adding an older wireless device to the network in the future.

9. Click **Close** to complete WPS setup.



Using Windows Vista®

Windows Vista® users may use the built-in wireless utility. If you are using another company's utility or Windows® 2000, please refer to the user manual of your wireless adapter for help with connecting to a wireless network. Most utilities will have a "site survey" option similar to the Windows Vista® utility as seen below.

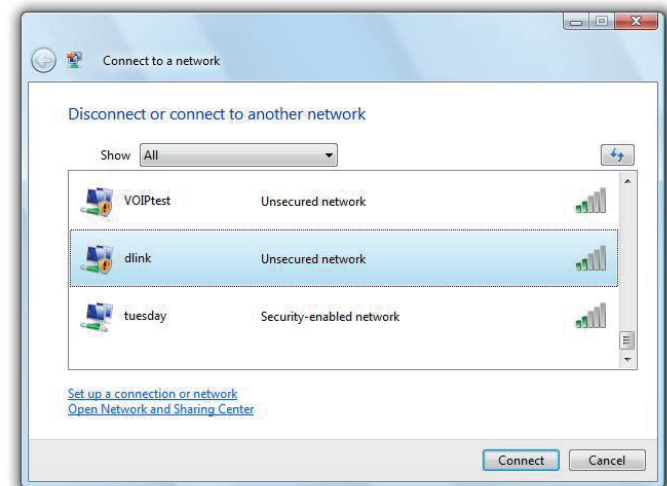
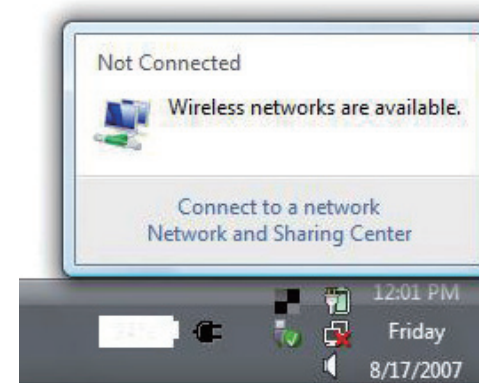
If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

or

Right-click on the wireless computer icon in your system tray (lower-right corner next to the time). Select **Connect to a network**.

The utility will display any available wireless networks in your area. Click on a network (displayed using the SSID) and click the **Connect** button.

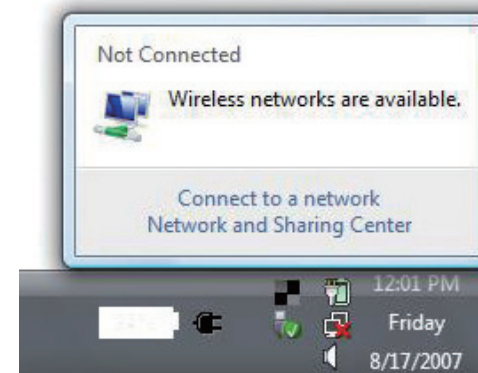
If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



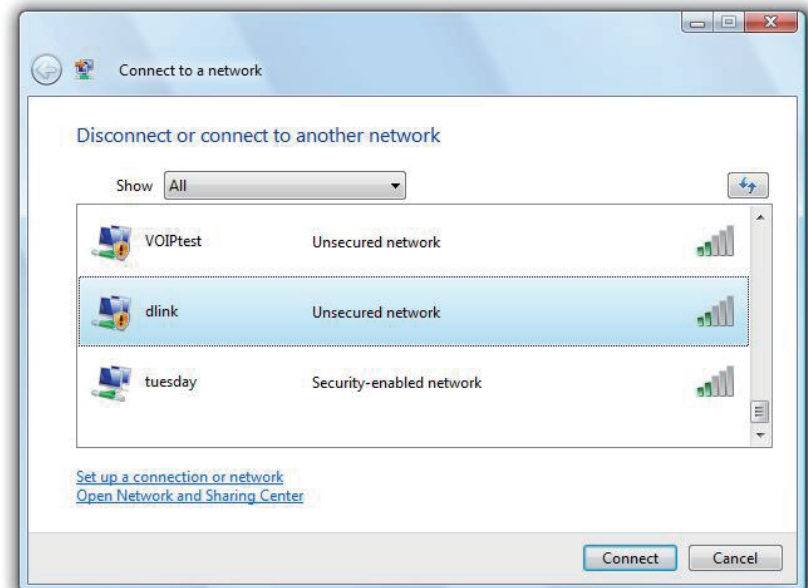
Configure Wireless Security

It is recommended to enable wireless security (WPA/WPA2) on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the security key or passphrase being used.

1. Open the Windows Vista® Wireless Utility by right-clicking on the wireless computer icon in your system tray (lower right corner of screen). Select **Connect to a network**.

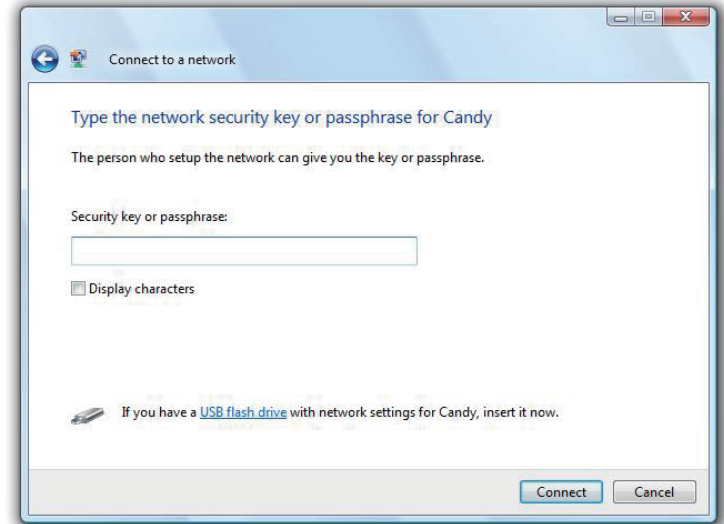


2. Highlight the wireless network (SSID) you would like to connect to and click **Connect**.



3. Enter the same security key or passphrase that is on your router and click **Connect**.

It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as on the wireless router.



Using Windows® XP

Windows® XP users may use the built-in wireless utility (Zero Configuration Utility). The following instructions are for Service Pack 2 users. If you are using another company's utility or Windows® 2000, please refer to the user manual of your wireless adapter for help with connecting to a wireless network. Most utilities will have a "site survey" option similar to the Windows® XP utility as seen below.

If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

or

Right-click on the wireless computer icon in your system tray (lower-right corner next to the time). Select **View Available Wireless Networks**.

The utility will display any available wireless networks in your area. Click on a network (displayed using the SSID) and click the **Connect** button.

If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.

