



User Manual

Wireless N Range Extender

DAP-1360

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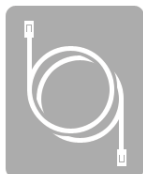
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Package Contents



DAP-1360 Wireless N Range Extender



Ethernet Cable



Two Detachable Antennas



Power Adapter



CD-ROM with Manual

Note: Using a power supply with a different voltage rating than the one included with the DAP-1360 will cause damage and void the warranty for this product.

System Requirements

Network Requirements	<ul style="list-style-type: none">• An Ethernet-based Network• IEEE 802.11n/g wireless clients (AP/Repeater Mode)• IEEE 802.11n/g wireless network (Client/Bridge/Repeater Mode)• 10/100 Ethernet
Web-based Configuration Utility Requirements	<p>Computer with the following:</p> <ul style="list-style-type: none">• Windows®, Macintosh, or Linux-based operating system• An installed Ethernet adapter <p>Browser Requirements:</p> <ul style="list-style-type: none">• Internet Explorer® 6.0 and higher• Mozilla Firefox 3.0 and higher• Google™ Chrome 2.0 and higher• Apple Safari 3.0 and higher <p>Windows® Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.</p>

Introduction

D-Link, an industry leader in networking, introduces the new D-Link DAP-1360 Wireless N Range Extender. With the ability to transfer files with a maximum wireless signal rate of up to 300Mbps*, the DAP-1360 gives you high-speed wireless network access for your home or office.

The DAP-1360 is Wi-Fi IEEE 802.11n compliant, meaning that it can connect and interoperate with other 802.11n compatible wireless client devices. The DAP-1360 is also backwards compatible with 802.11b/g. It can be flexibly configured to operate in 7 different modes **Access Point, Wireless Client, Bridge, Bridge with AP, Repeater, WISP Client Router** or **WISP Repeater**. With its Setup Wizard, the DAP-1360 ensures that you will be up and running on a wireless network in just a matter of minutes.

The DAP-1360 features Wi-Fi Protected Access (WPA-PSK/WPA2-PSK) to provide an enhanced level of security for wireless data communications. The DAP-1360 also includes additional security features to keep your wireless connection safe from unauthorized access.

The DAP-1360 supports WPS on the AP, repeater and wireless client operation modes, with each capable of being conveniently set up by using the PIN method or Push Button.

• Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate.

TOTAL PERFORMANCE

Combines award winning access point features and 802.11n wireless technology to provide the best wireless performance.

TOTAL SECURITY

The most complete set of security features including WPA/WPA2 encryption to protect your network against outside intruders.

TOTAL COVERAGE

Provides greater wireless signal rates even at farther distances for best-in-class Whole Home Coverage.

ULTIMATE PERFORMANCE

The D-Link Wireless N Range Extender (DAP-1360) is an 802.11n compliant device that delivers real world performance of up to 650% faster than an 802.11g wireless connection (also faster than a 100Mbps wired Ethernet connection). Create a secure wireless network to share photos, files, music, video, printers, and network storage throughout your home. Connect the DAP-1360 to router and share your high-speed Internet access with everyone on the network. In addition, this Range Extender includes a Quality of Service (QoS) engine that keeps digital phone calls (VoIP) and online gaming smooth and responsive, providing a better Internet experience.

EXTENDED WHOLE HOME COVERAGE

This high performance Wireless Bridge provides superior Whole Home Coverage while reducing dead spots. The DAP-1360 is designed for use in bigger homes and for users who demand higher performance networking.

TOTAL NETWORK SECURITY

The DAP-1360 supports all of the latest wireless security features to prevent unauthorized access, be it from over the wireless network or from the Internet. Support for WPA and WPA2 standards ensure that you'll be able to use the best possible encryption method, regardless of your client devices.

* Maximum wireless signal rate derived from IEEE Standard 802.11g and 802.11n specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental conditions will adversely affect wireless signal range.

Features

- **Faster Wireless Networking** - The DAP-1360 provides up to 300Mbps* wireless connection with other 802.11n wireless clients. This capability allows users to participate in real-time activities online, such as video streaming, online gaming, and real-time audio.
- **Compatible with IEEE802.11g Devices** - The DAP-1360 is still fully compatible with the 802.11g standards, so it can connect with existing 802.11g PCI, USB, and Cardbus adapters.
- **Advanced Firewall Features** - The Web-based user interface displays advanced network management features including Content Filtering, which allows easily applied content filtering based on MAC Address.
- **WPS PBC** - (Wi-Fi Protected Setup Push Button Configuration) Push Button Configuration is a button that can be pressed to add the device to an existing network or to create a new network. A virtual button can be used on the utility while a physical button is placed on the side of the device.
This easy setup method allows you to form a secured wireless link between the DAP-1360 and another WPS enabled device. A PC is no longer needed to log into the Web-based interface.
- **WPS PIN** - (Wi-Fi Protected Setup Personal Identification Number) A PIN is a unique number that can be used to add the access point to an existing network or to create a new network. The default PIN may be printed on the bottom of the access point. For extra security, a new PIN can be generated. You can restore the default PIN at any time. Only the Administrator ("admin" account) can change or reset the PIN.
- **User-friendly Setup Wizard** - Through its easy-to-use Web-based user interface, the DAP-1360 lets you control what information is accessible to those on the wireless network, whether from the Internet or from your company's server. Configure your access point to your specific settings within minutes.

Hardware Overview

Connections



1	LAN Port	Connect 10/100 Ethernet devices such as computers, switches, and hubs.
2	Reset Button	Hold the reset button for at least 6 seconds to reset the device back to the factory default settings. All the LEDs will turn on for 2 second and then begin the reboot process.
3	Power Receptor	Receptor for the supplied power adapter.

Hardware Overview

LEDs



1	Power LED	A solid green light indicates a proper connection to the power supply.
2	Wireless LED	A blinking green light indicates the wireless function is working. The light will blink fast during data transmission. The light will be off during device reboot or if the wireless radio is disabled.
3	Security LED	A solid green light indicates that wireless security (WEP, WPA, WPA2) is enabled.
4	LAN LED	A blinking green light indicates data is being transferred through the LAN port. A solid green light indicates the LAN port connection is OK.

Hardware Overview

WPS LED/Button



1	WPS LED/Button	A solid light indicates a successful WPS connection. A blinking light indicates the device is trying to establish a connection.
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Installation

Please configure the DAP-1360 with a computer connected directly to the AP. The next few pages will explain the different operational modes you can use.

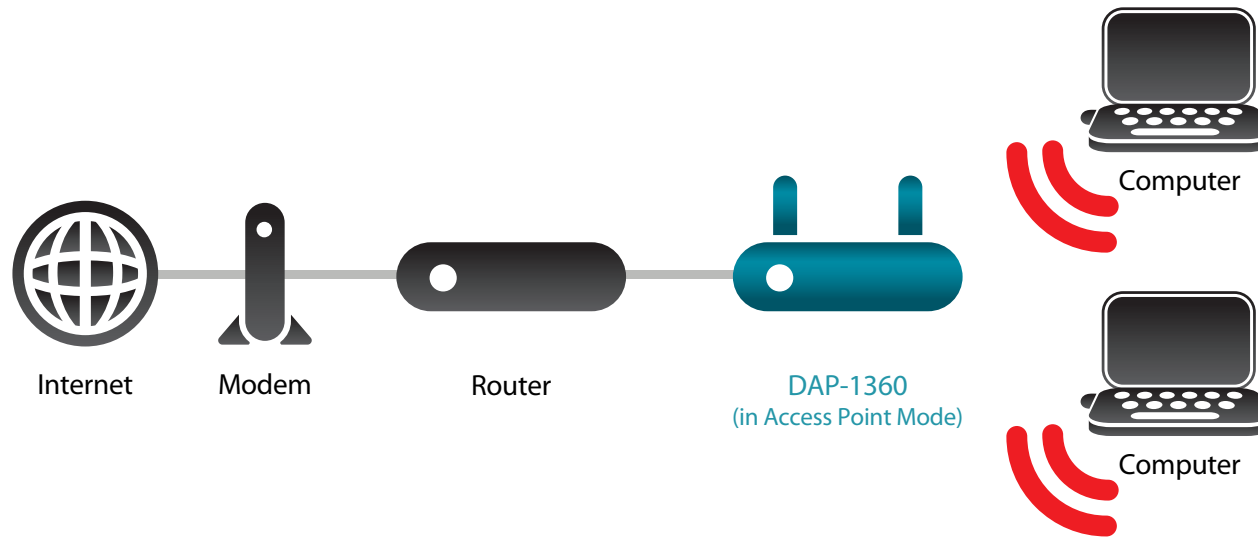
Operation Modes

Depending on how you want to use your DAP-1360 will determine which mode you use. This section will help you figure out which setting works with your setup.

- Access Point mode - page 13
- Wireless Client mode - page 14
- Repeater mode - page 15
- Bridge mode - page 16
- Bridge with AP mode - page 17
- WISP Client Router mode - page 18
- WISP Repeater mode - page 19

Access Point Mode

In the Access Point mode, the DAP-1360 acts as a central connection point for any computer (client) that has a 802.11n or backward-compatible 802.11g wireless network interface and is within range of the AP. Clients must use the same SSID (wireless network name) and channel as the AP in order to connect. If wireless security is enabled on the AP, the client will need to enter a password to connect to the AP. In Access Point mode, multiple clients can connect to the AP at the same time.

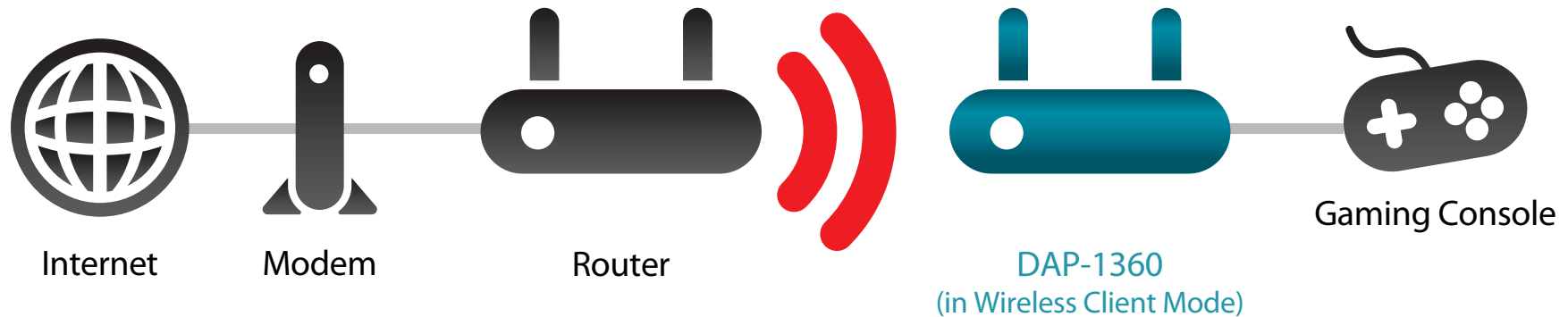


Wireless Client Mode

In the Wireless Client mode, the DAP-1360 acts as a wireless network adapter for your Ethernet-enabled device (such as a game console or a TV set-top box). Connect your Ethernet-enabled device to the AP using an Ethernet cable. The AP Client mode can support multiple wired clients.

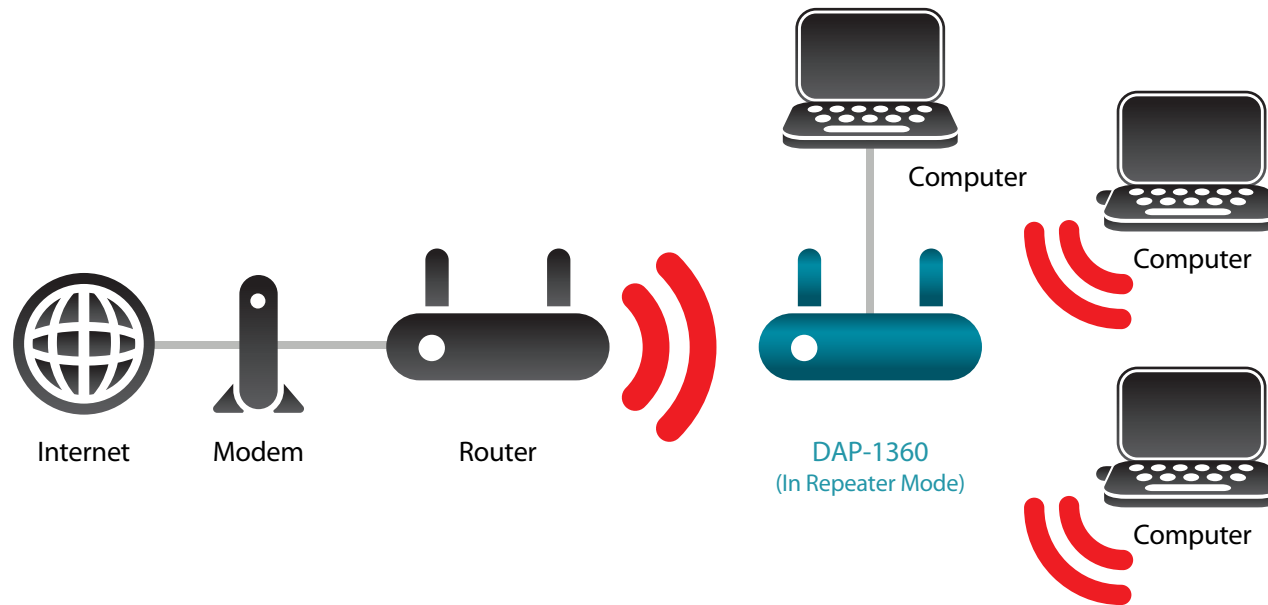
If you are going to connect several Ethernet-enabled devices to your DAP-1360, connect the LAN port of the DAP-1360 to an Ethernet switch, then connect your devices to this switch.

Example: Connect a gaming console using an ethernet cable to the DAP-1360. The unit is set to Wireless Client mode which will wirelessly connect to a wireless router on your network.



Repeater Mode

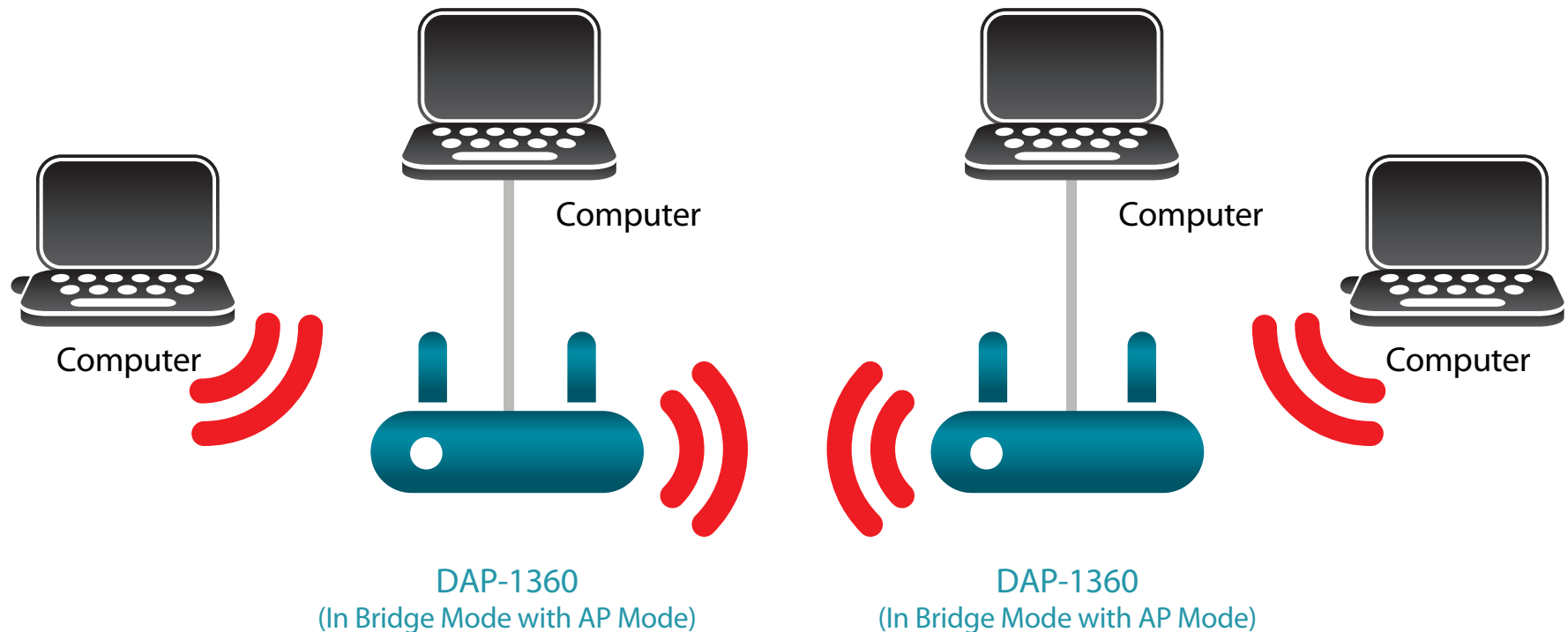
In Repeater mode, the DAP-1360 increases the range of your wireless network by extending the wireless coverage of another AP or wireless router. The APs and wireless router (if used) must be within range of each other. Make sure that all clients, APs, and the wireless router all use the same SSID (wireless network name), channel, and security settings.



Bridge Mode

In the Bridge mode, the DAP-1360 wirelessly connects separate local area networks (LANs) that can't easily be connected together with a cable. For example, if there are two wired LANs separated by a small courtyard, it would be expensive to bury cables to connect between the two sides together. A better solution is to use two DAP-1360 units to wirelessly connect the two LANs. In the Bridge mode, both DAP-1360 units do not act as APs.

Note: The Bridge mode is not specified in the Wi-Fi or IEEE standards. This mode will only work using two DAP-1360 units. Communication with other APs (even other D-Link APs) is not guaranteed.

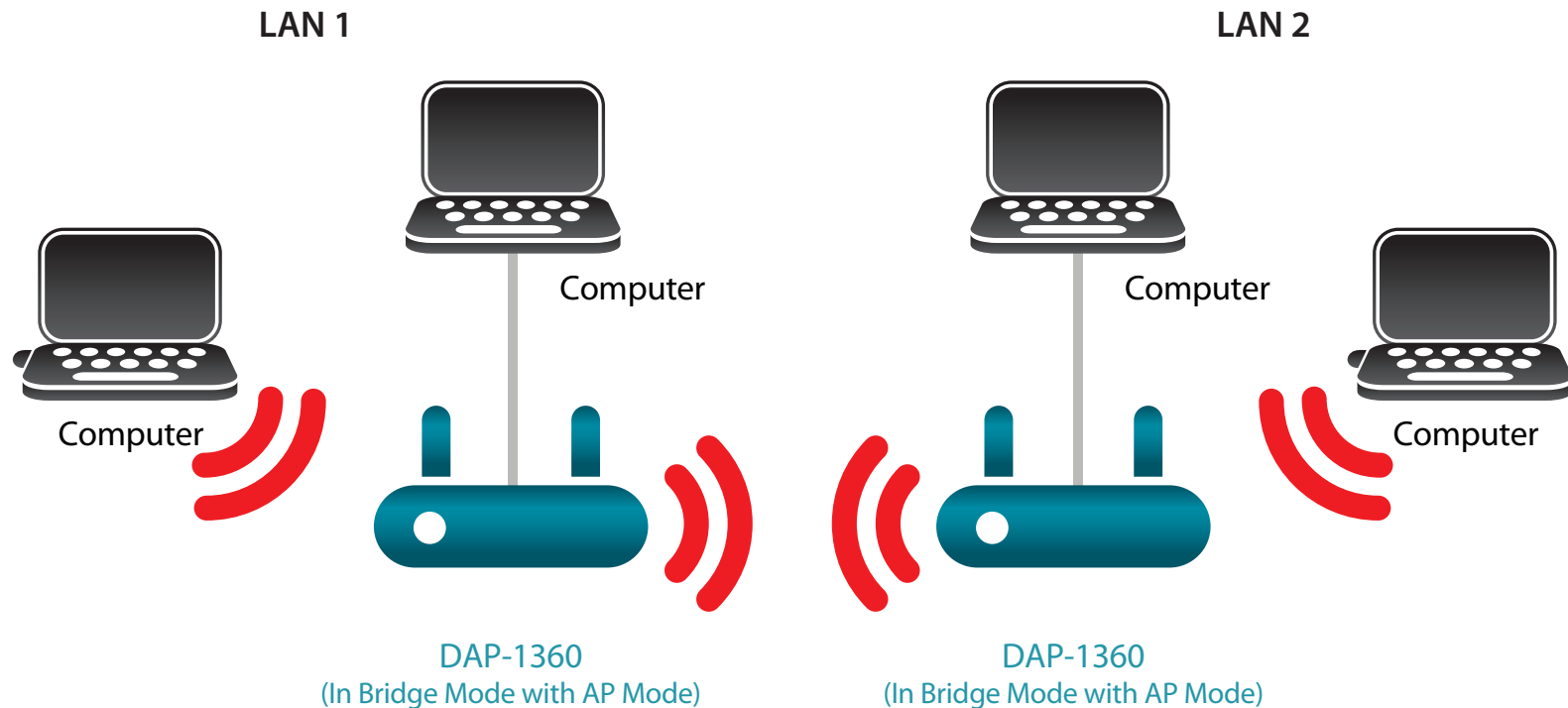


Connecting Two Separate LANs Together Through Two DAP-1360 Units

Bridge with AP Mode

The Bridge with AP mode is the same as the Bridge mode, but in this case, the DAP-1360 also acts as an AP. Clients with wireless interfaces can wirelessly connect to the DAP-1360 and then connect to the other LAN that the DAP-1360 bridges to.

Note: The Bridge with AP mode is not specified in the Wi-Fi or IEEE standards. This mode will only work using two DAP-1360 units. Communication with other APs (even other D-Link APs) is not guaranteed.

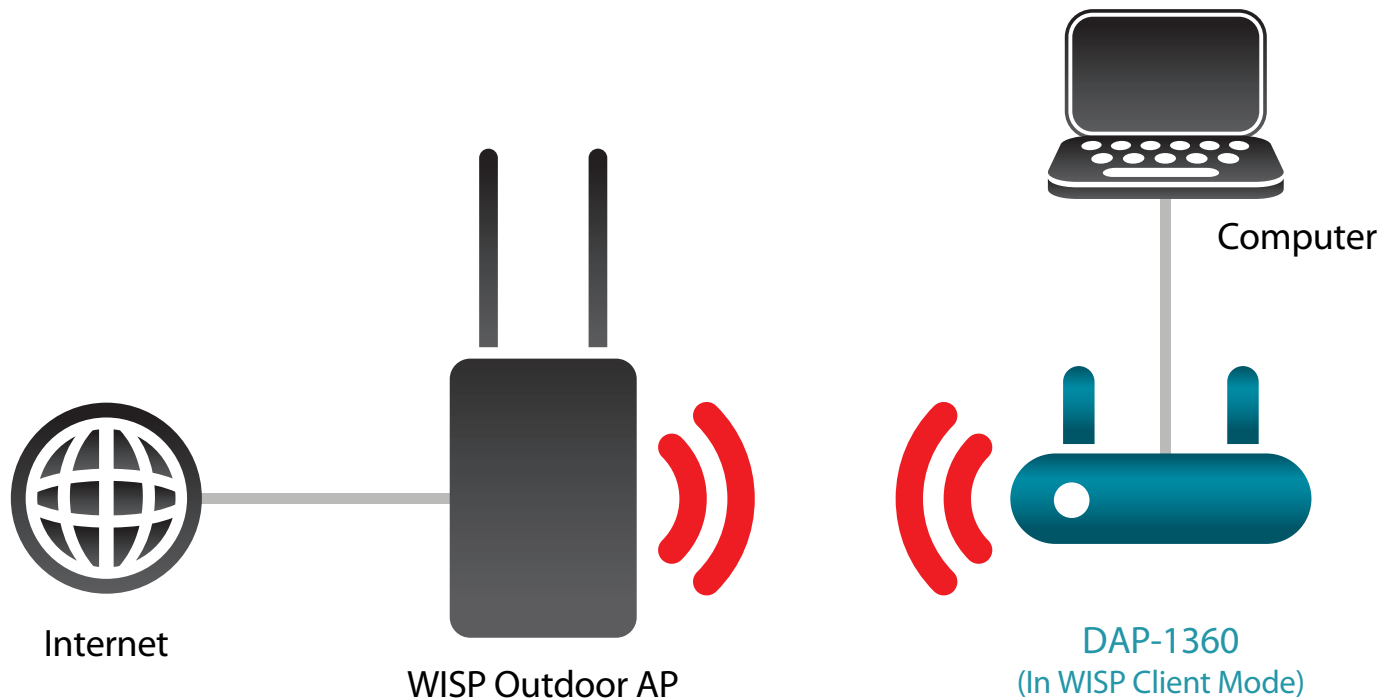


**Connecting Two Separate LANs Together Through Two DAP-1360 Units
(Wireless PCs Can Access the DAP-1360 Units)**

WISP Client Router Mode

In the WISP Client Router mode, the DAP-1360 wirelessly connects to a WISP (Wireless Internet Service Provider) AP. In this mode, the DAP-1360 also acts as a router for wired clients on your LAN and provides NAT (Network Address Translation) and a DHCP server to generate IP addresses for wired clients only. NAT and the DHCP server allow many computers to share the same wireless Internet connection.

If you are a WISP subscriber and want to access your WISP account using wired computers, connect your computers to the DAP-1360 to get NAT, and then connect them to the WISP AP.

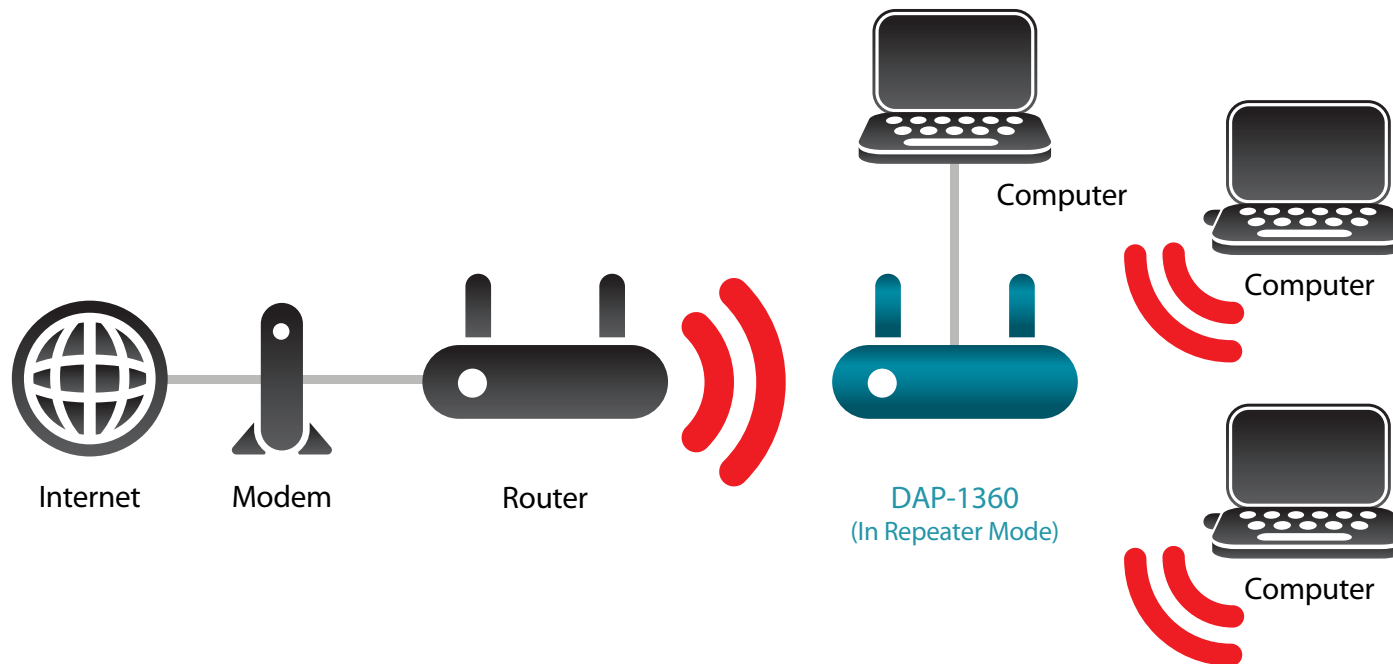


Connecting Wired PCs to the Internet Using the DAP-1360

WISP Repeater Mode

In the WISP Repeater mode, the DAP-1360 wirelessly connects to a WISP (Wireless Internet Service Provider) AP. In this mode, the DAP-1360 also acts as a router for both wireless and wired clients on your LAN. The WISP Repeater mode provides NAT (Network Address Translation) and a DHCP server to generate IP addresses for both wireless and wired clients. NAT and the DHCP server allow many computers to share the same wireless Internet connection.

If you are a WISP subscriber and want to use your WISP account in your house, but the signals from the outdoor WISP AP are not strong enough to reach all of the areas in the house, use the DAP-1360 to can extend the signals from the outdoor WISP AP and provide access to wireless clients in your house. Using this mode, wireless as well as wired clients can connect to the outdoor WISP AP through the DAP-1360.



Connecting Wired and Wireless PCs to the Internet Using the DAP-1360

Wireless Installation Considerations

The D-Link wireless access point lets you access your network using a wireless connection from virtually anywhere within the operating range of your wireless network. Keep in mind, however, that the number, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through, may limit the range. Typical ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or business. The key to maximizing wireless range is to follow these basic guidelines:

1. Keep the number of walls and ceilings between the D-Link access point and other network devices to a minimum. Each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.
2. Be aware of the direct line between network devices. A wall that is 1.5 feet thick (.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle it looks over 42 feet (14 meters) thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
3. Building Materials make a difference. A solid metal door or aluminum studs may have a negative effect on range. Try to position access points, wireless access points, and computers so that the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (fish tanks), mirrors, file cabinets, brick, and concrete will degrade your wireless signal.
4. Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate RF noise.
5. If you are using 2.4GHz cordless phones or X-10 (wireless products such as ceiling fans, lights, and home security systems), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone is not in use.

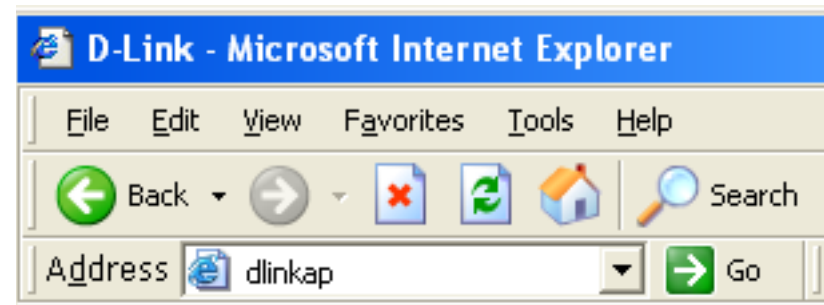
Configuration

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

Web-based Configuration Utility

If you wish to change the default settings or optimize the performance of the DAP-1360, you may use the web-based configuration utility.

To access the configuration utility, open a web browser such as Internet Explorer and enter **dlinkap** or **192.168.0.50** in the address field.



Type **Admin** and then enter your password. Leave the password blank by default.

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

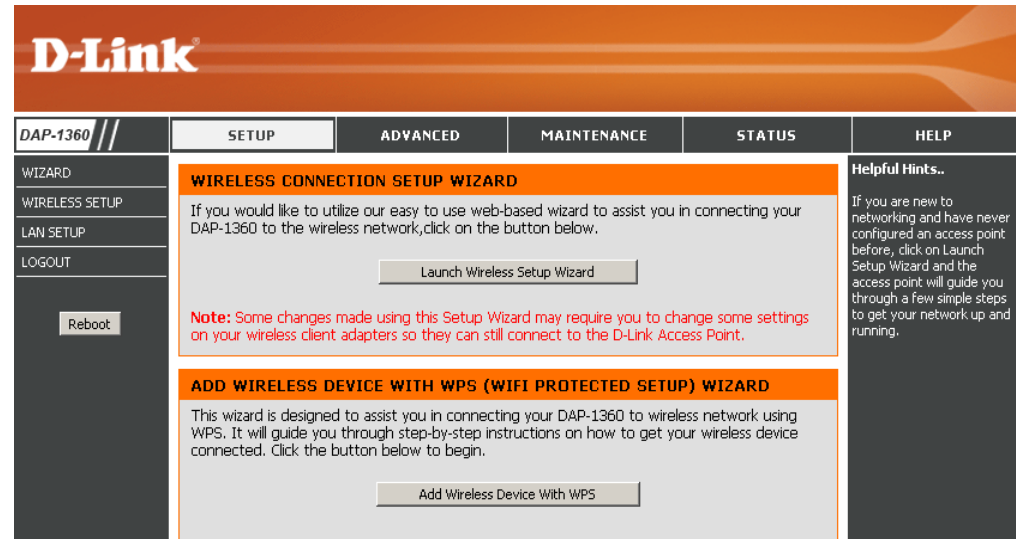
A screenshot of the D-Link web-based configuration utility login page. The page has an orange header with the word 'LOGIN' in white. Below the header, the text 'Login in the Access Point' is displayed. The login form consists of two input fields: 'User Name :' with the text 'admin' entered, and 'Password :'. To the right of the password field is a 'Log In' button.

Wireless Setup Wizard

Click **Launch Wireless Setup Wizard** to configure your access point.

To set up your wireless network, click **Add Wireless Device With WPS** and skip to page 39.

If you want to enter your settings without running the wizard, click **Wireless Setup** on the left side and skip to page 40.



Access Point Mode

This Wizard is designed to assist you in configuring your DAP-1360 as an access point.

Enter the Device Name of the AP and click **Next** to continue. It is recommended to change the Device Name if there is more than one D-Link device within the same wireless network.


Enter the Device Name of the AP. Recommend to change the Device Name if there're more than one D-Link devices within the subnet. Click **Next** to continue.

Device Name (NetBIOS Name) :


Select **Access Point** from the drop-down menu.

SELECT YOUR WIRELESS MODE

Please select wireless mode. Click **Next** to continue.

Wireless Mode: 

Access Point allows the device to act as the wireless transmitter for your router or become a separate Access Point



If you want to change the admin account password, enter a new password and click **Next**. It is strongly recommended to change your password.

SET YOUR NEW PASSWORD

You may change the **admin** account password by entering in a new password. Click **Next** to continue.

Password
Verify Password

Select **Auto** as the configuration method only if your wireless device supports Wi-Fi Protected Setup (WPS). For **Manual** setup, skip to the next page.

Click **Next** to continue.

SELECT CONFIGURATION METHOD

Please select one of the 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 if you want to setup your network manually.

Click **Save** to save your network settings.

In order for your network settings to take effect AP will reboot automatically.

When the device has finished rebooting the main screen will display.

WELCOME TO THE D-LINK WIRELESS SETUP WIZARD

Please enter the following settings in the wireless device that you are adding to your wireless network and keep a note of it for future reference.

Wireless Network Name (SSID) : **dlink26AD**
Wireless Security Mode : **WPA-PSK**
Network Key : **7F02VL8Y52PCX7RGL5Q69LYR1N**

Select **Manual** as the configuration method to set up your network manually.

Click **Next** to continue.

Enter a name for your wireless network (SSID).

Select **Automatically assign a network key** to have the access point generate a key for you to enter on your wireless clients. If you want to enter your own key, select **Manually assign a network key**.

To use WPA security, check the **use WPA encryption instead of WEP box**. If left unchecked, WEP encryption will be used.

Click **Next** to continue.

If you selected **Manually assign a network key** as the configuration method, enter your network key. This key must be entered on your wireless clients.

For **WEP** encryption, enter a Network Key exactly 5 or 13 characters long or exactly 10 or 26 characters using 0-9 and A-F.

Click **Next** to continue.

SELECT CONFIGURATION METHOD

Please select one of the 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 if you want to setup your network manually

Prev Next Exit

WELCOME TO THE D-LINK WIRELESS SETUP WIZARD

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

Network Name (SSID): dlink26AD

☐ Automatically assign a network key (Recommended)

To prevent outsiders from accessing your network, the AP will automatically assign a security key (also called WEP or WPA key) to your network

☒ Manually assign a network key

Use this option if you prefer to create your own key.

☒ Use WPA encryption instead of WEP (WPA is stronger than WEP and all D-Link wireless client adapters support WPA)

Prev Next Exit

WELCOME TO THE D-LINK WIRELESS SETUP WIZARD

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

- Between 8 and 63 characters (A longer WPA key is more secure than a short one)

Network key : mywpasecuritykey

Prev Next Exit

The following screen will show you your network key to enter on your wireless clients.

Click **Save** to finish the Setup Wizard.

WELCOME TO THE D-LINK WIRELESS SETUP WIZARD

Please enter the following settings in the wireless device that you are adding to your wireless network and keep a note of it for future reference.

Wireless Network Name (SSID) :	dlink
Wireless Security Mode :	WPA-PSK
Network Key :	mywpasecuritykey

Repeater Mode

This Wizard is designed to assist you in configuring your DAP-1360 as a repeater.

Enter the Device Name of the AP and click **Next** to continue. It is recommended to change the Device Name if there is more than one D-Link device within the same wireless network.

SET YOUR DEVICE NAME

Enter the Device Name of the AP. Recommend to change the Device Name if there're more than one D-Link devices within the subnet. Click **Next** to continue.

Device Name (NetBIOS Name)


Select **Repeater** from the drop-down menu.

SELECT YOUR WIRELESS MODE

Please select wireless mode. Click **Next** to continue.

Wireless Mode:

Repeater mode extends the wireless signal from your access point increasing your wireless network



If you want to change the admin account password, enter a new password and click **Next**. It is strongly recommended to change your password.

SET YOUR NEW PASSWORD

You may change the **admin** account password by entering in a new password. Click **Next** to continue.

Password

Verify Password

Select **Auto** as the configuration method only if your wireless device supports Wi-Fi Protected Setup (WPS). For **Manual** setup, skip to the next page.

Click **Next** to continue.

SELECT CONFIGURATION METHOD

Please select one of the 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 if you want to setup your network manually.

For PBC (Push Button Configuration), skip to the next page.

Select **PIN** to connect your wireless device with WPS. You may click **Generate New PIN** to use a different PIN number. Click **Connect** to start the WPS scan.

Within 2 minutes, enter the PIN number into the other device you want to connect to.

CONNECT TO WIRELESS DEVICE WITH WPS

There are two ways to connect to wireless device with WPS:

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

☒ **PIN: 86617666**

Please enter the above PIN into your Access Point and click the below "Connect" button.

☐ **PBC**

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

Select **PBC** to use the Push Button Configuration to connect to your network.

Click **Connect** to continue.

Note: You may also press the WPS button located on the side of the DAP-1360 instead of running this wizard.

CONNECT TO WIRELESS DEVICE WITH WPS

There are two ways to connect to wireless device with WPS:

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

☐ PIN: 86617666

Generate New PIN

Reset PIN to Default

Please enter the above PIN into your Access Point 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.

Prev

Connect

Exit

VIRTUAL PUSH BUTTON

Please press down the Push Button (physical or virtual) on the wireless device you are adding to your wireless network within 117 seconds...

On the device you want to connect to, start the PBC process on the device. You will have 2 minutes to start the PBC process on both devices.

Select **Manual** configuration to setup your network manually.

Click **Next** to continue.

SELECT CONFIGURATION METHOD

Please select one of the 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 if you want to setup your network manually.

Prev

Next

Exit

Enter the network name (SSID) of the network you want to connect to. If you do not know the exact name or would like to search for the wireless network, click **Site Survey**.

SET WIRELESS NETWORK NAME(SSID)

You can enter the Wireless Network Name of AP or use site survey to find the AP.

Wireless Network Name (SSID):

Site Survey

Prev

Next

Exit

Find your access point from the list, click the radio button in the right column, and click **Connect**.

D-Link

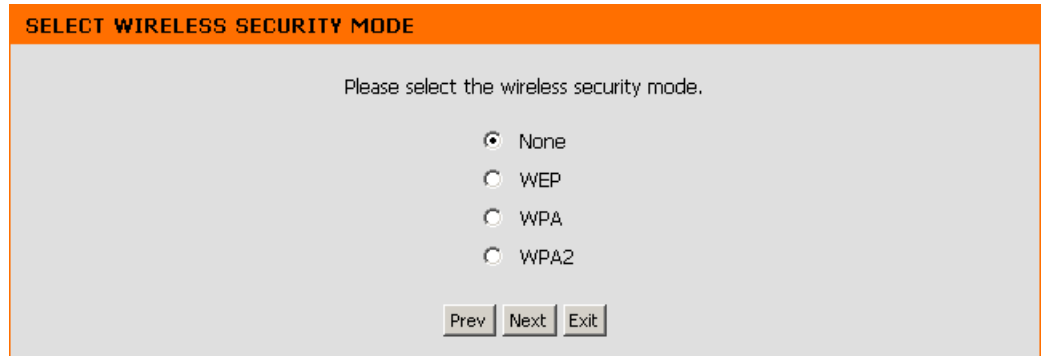
SSID	BSSID	Channel	Type	Encrypt	Signal	Select
m-Lounge	001cf0efe6d6	2 (B+G+N)	AP	WPA-PSK/WPA2-PSK	51	<input type="radio"/>
alpha	001346aaadc8	1 (B+G)	AP	WPA-PSK/WPA2-PSK	41	<input type="radio"/>
DAP-2590-3	002191af25c3	6 (B+G+N)	AP	no	15	<input type="radio"/>

Connect

Exit

WIRELESS

Choose which Security Mode you want to use and click **Next** to continue.



SELECT WIRELESS SECURITY MODE

Please select the wireless security mode.

☒ None
☐ WEP
☐ WPA
☐ WPA2

Prev Next Exit

If you select **WEP**, choose the key type (ASCII or HEX), the key size (64 or 128-bit), and enter the wireless security password. Click **Next** to complete the Setup Wizard.



SET YOUR WIRELESS SECURITY PASSWORD

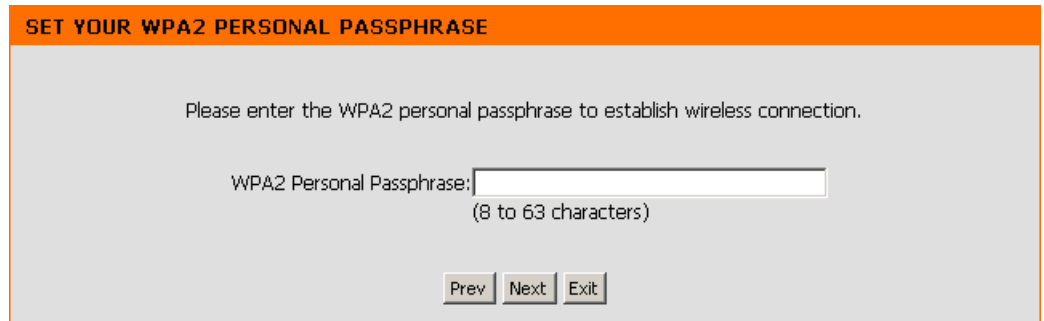
Please enter the wireless security password to establish wireless connection.

Key Type: ASCII
Key Size: 64-Bit

Wireless Security Password:

Prev Next Exit

If you select **WPA** or **WPA2**, enter the wireless security password. Click **Next** to complete the Setup Wizard.



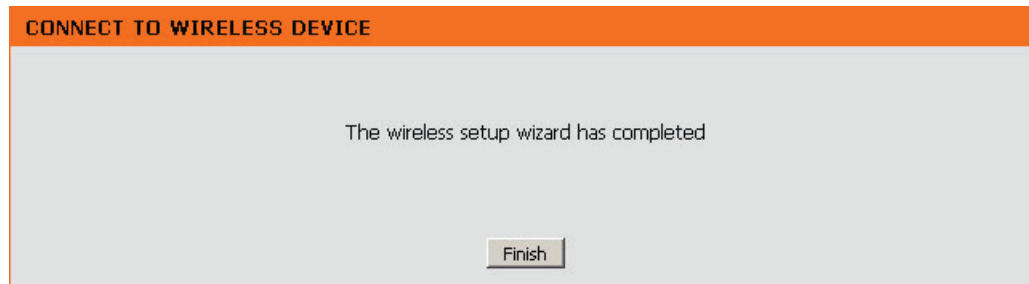
SET YOUR WPA2 PERSONAL PASSPHRASE

Please enter the WPA2 personal passphrase to establish wireless connection.

WPA2 Personal Passphrase:
(8 to 63 characters)

Prev Next Exit

The Wireless Setup Wizard is complete. Click **Finish** to reboot the device.



Wireless Client Mode

This Wizard is designed to assist you in configuring your DAP-1360 as a wireless client.

Enter the Device Name of the AP and click **Next** to continue. It is recommended to change the Device Name if there is more than one D-Link device within the same wireless network.

SET YOUR DEVICE NAME

Enter the Device Name of the AP. Recommend to change the Device Name if there're more than one D-Link devices within the subnet. Click **Next** to continue.


Device Name (NetBIOS Name)

Select **Wireless Client** from the drop-down menu.

SELECT YOUR WIRELESS MODE

Please select wireless mode. Click **Next** to continue.

Wireless Mode: Creates the device into a wireless adapter for you to connect to an access point



If you want to change the admin account password, enter a new password and click **Next**. It is strongly recommended to change your password.

SET YOUR NEW PASSWORD

You may change the **admin** account password by entering in a new password. Click **Next** to continue.

Password

Verify Password

Select **Auto** as the configuration method only if your wireless device supports Wi-Fi Protected Setup (WPS). For **Manual** setup, skip to the next page.

Click **Next** to continue.

SELECT CONFIGURATION METHOD

Please select one of the 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 if you want to setup your network manually.

For PBC (Push Button Configuration), skip to the next page.

Select **PIN** to connect your wireless device with WPS. You may click **Generate New PIN** to use a different PIN number. Click Connect to start the WPS scan.

Within 2 minutes, enter the PIN number into the other device you want to connect to.

CONNECT TO WIRELESS DEVICE WITH WPS

There are two ways to connect to wireless device with WPS:

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

☒ **PIN: 86617666**

Please enter the above PIN into your Access Point and click the below "Connect" button.

☐ **PBC**

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

Select **PBC** to use the Push Button Configuration to connect to your network.

Click **Connect** to continue.

Note: You may also press the WPS button located on the side of the DAP-1360 instead of running this wizard.

CONNECT TO WIRELESS DEVICE WITH WPS

There are two ways to connect to wireless device with WPS:

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

☐ PIN: 86617666

Generate New PIN

Reset PIN to Default

Please enter the above PIN into your Access Point 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.

Prev

Connect

Exit

VIRTUAL PUSH BUTTON

Please press down the Push Button (physical or virtual) on the wireless device you are adding to your wireless network within 117 seconds...

On the device you want to connect to, start the PBC process on the device. You will have 2 minutes to start the PBC process on both devices.

Select **Manual** configuration to setup your network manually.

Click **Next** to continue.

SELECT CONFIGURATION METHOD

Please select one of the 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 if you want to setup your network manually.

Prev

Next

Exit

Enter the network name (SSID) of the network you want to connect to. If you do not know the exact name or would like to search for the wireless network, click **Site Survey**.

SET WIRELESS NETWORK NAME(SSID)

You can enter the Wireless Network Name of AP or use site survey to find the AP.

Wireless Network Name (SSID):

Site Survey

Prev

Next

Exit

Find your access point from the list, click the radio button in the right column, and click **Connect**.

D-Link

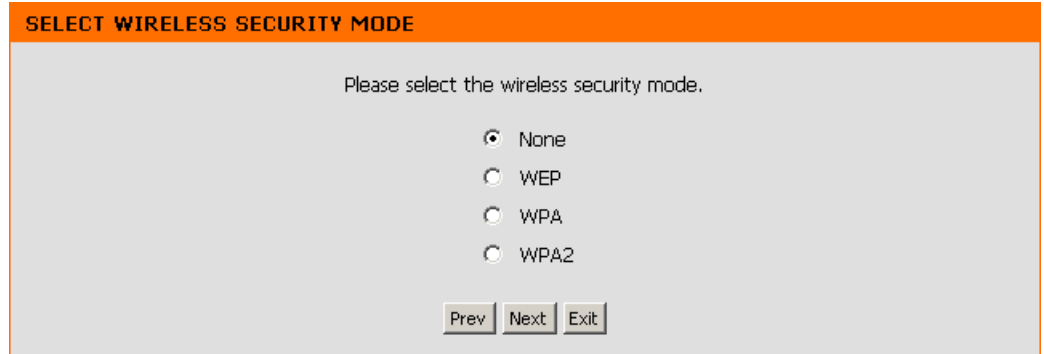
SSID	BSSID	Channel	Type	Encrypt	Signal	Select
m-Lounge	001cf0efe6d6	2 (B+G+N)	AP	WPA-PSK/WPA2-PSK	51	<input type="radio"/>
alpha	001346aaadc8	1 (B+G)	AP	WPA-PSK/WPA2-PSK	41	<input type="radio"/>
DAP-2590-3	002191af25c3	6 (B+G+N)	AP	no	15	<input type="radio"/>

Connect

Exit

WIRELESS

Choose which Security Mode you want to use and click **Next** to continue.



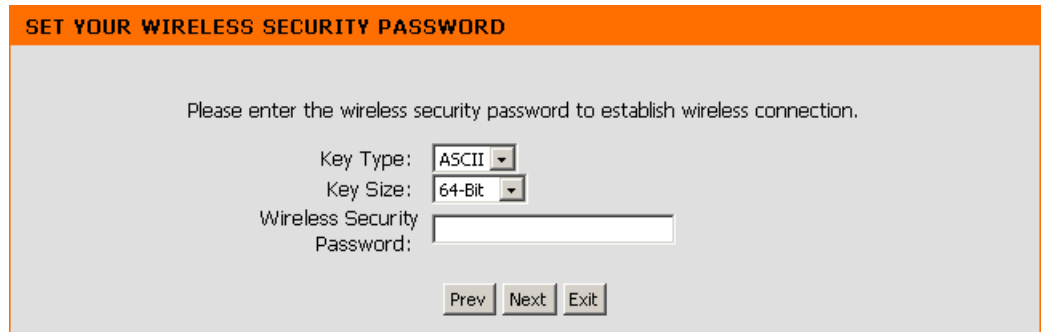
SELECT WIRELESS SECURITY MODE

Please select the wireless security mode.

☒ None
☐ WEP
☐ WPA
☐ WPA2

Prev Next Exit

If you select **WEP**, choose the key type (ASCII or HEX), the key size (64 or 128-bit), and enter the wireless security password. Click **Next** to complete the Setup Wizard.



SET YOUR WIRELESS SECURITY PASSWORD

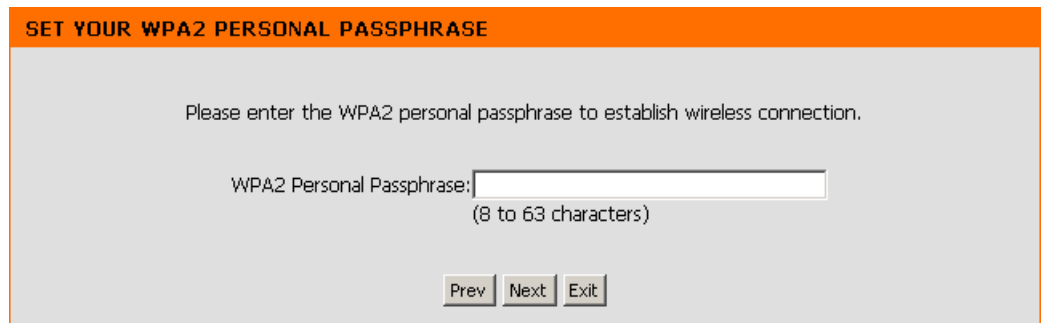
Please enter the wireless security password to establish wireless connection.

Key Type: ASCII
Key Size: 64-Bit

Wireless Security Password:

Prev Next Exit

If you select **WPA** or **WPA2**, enter the wireless security password. Click **Next** to complete the Setup Wizard.



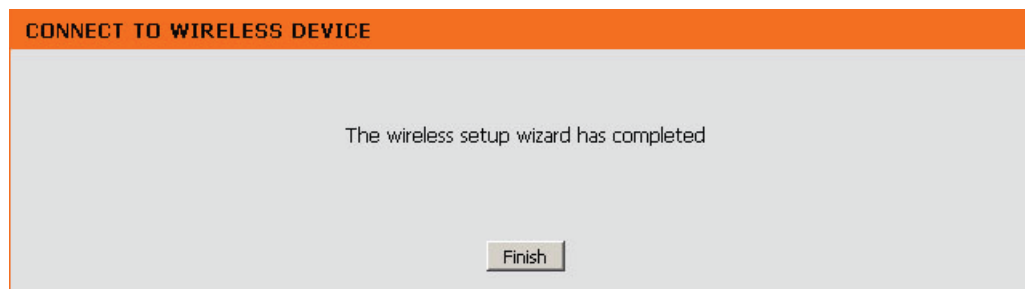
SET YOUR WPA2 PERSONAL PASSPHRASE

Please enter the WPA2 personal passphrase to establish wireless connection.

WPA2 Personal Passphrase:
(8 to 63 characters)

Prev Next Exit

The Wireless Setup Wizard is complete. Click **Finish** to reboot the device.



Add Wireless Device With WPS

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.

Select **PIN** to use your **PIN** number from your wireless device to connect to your network.

For **PBC** configuration, skip to the next page.

Click **Connect** to continue.

Start **WPS** on the wireless device you are adding to your wireless network to complete the setup.

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

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

Click **Connect** 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

Press down the **Push 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 **117** seconds...

Manual Configuration

Wireless Settings

You may manually configure your DAP-1360 instead of running the setup wizard.

- Access Point mode - page 42
- Repeater mode - page 44
- Wireless Client mode - page 45
- Bridge mode - page 46
- Bridge with AP mode - page 47
- WISP Client Router mode - page 48
- WISP Repeater mode - page 48

Access Point Mode

Enable Wireless: Check the box to enable the wireless function. If you do not want 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** to create a new schedule.

Wireless Mode: Select **Access Point** from the drop-down menu.

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, it is highly recommended to change from the default network name.

Enable Auto Channel Scan: The **Auto Channel Scan** setting can be selected to allow the DAP-1360 to choose the channel with the least amount of interference.

Wireless Channel: Indicates the channel setting for the DAP-1360. 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.

802.11 Mode: Select one of the following:

802.11b Only - Select if you are only using 802.11b wireless clients.

802.11g Only - Select if you are only using 802.11g wireless clients.

802.11n Only - Select if you are only using 802.11n wireless clients.

Mixed 802.11g and 802.11b - Select if you are using a mix of 802.11g and 11b wireless clients.

Mixed 802.11n and 802.11g - Select if you are using a mix of 802.11n and 11g 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.

The screenshot shows the D-Link DAP-1360 web interface. The top navigation bar includes links for WIZARD, WIRELESS SETUP, LAN SETUP, and LOGOUT. The main content area is titled 'WIRELESS NETWORK' and contains instructions for configuring wireless settings. Below the instructions are two tabs: 'WIRELESS NETWORK SETTINGS' and 'WIRELESS SECURITY MODE'. The 'WIRELESS NETWORK SETTINGS' tab is active, showing options for enabling wireless, selecting a mode (Access Point), setting a network name (SSID), enabling auto channel scan, selecting a channel, 802.11 mode, channel width, transmission rate, and enabling hidden wireless. The 'WIRELESS SECURITY MODE' tab shows the security mode set to 'Disable Wireless Security (not recommended)'. The 'WIFI PROTECTED SETUP (ALSO CALLED WCN 2.0 IN WINDOWS VISTA)' section shows the enable checkbox checked, lock wireless security checked, current PIN 86617666, and Wi-Fi protected status as 'Enabled/Not configured'.

WIRELESS NETWORK

Use this section to configure the wireless settings for your D-Link Access Point. Please note that changes made on this section may also need to be duplicated on your wireless client.

To protect your privacy you can configure wireless security features. This device supports three wireless security modes including: WEP or WPA and WPA2.

Save Settings Don't Save Settings

WIRELESS NETWORK SETTINGS :

Enable Wireless : ☒ Always Add New

Wireless Mode : Access Point Site Survey

Wireless Network Name : dlink (Also called the SSID)

Enable Auto Channel Scan : ☒

Wireless Channel : 6

802.11 Mode : Mixed 802.11n, 802.11g and 802.11b

Channel Width : Auto 20/40MHz

Transmission Rate : Auto

Enable Hidden Wireless : ☐ (Also called Disable SSID Broadcast)

WIRELESS SECURITY MODE :

Security Mode : Disable Wireless Security (not recommended)

WIFI PROTECTED SETUP (ALSO CALLED WCN 2.0 IN WINDOWS VISTA) :

Enable : ☒

Lock Wireless Security : ☒

Current PIN : 86617666

Generate New PIN Reset PIN to Default

Wi-Fi Protected Status : Enabled/Not configured

Reset to Unconfigured

Helpful Hints..

Wireless Mode: Select a function mode to configure your wireless network. Function wireless modes include Access Point, AP Client, Bridge, Bridge with AP, Repeater, WISP Client Router and WISP Repeater. Function wireless modes are designed to support various wireless network topologies and applications.

Wireless Network Name: Changing your Wireless Network Name is the first step in securing your wireless network. We recommend that you change it to a familiar name that does not contain any personal information.

Hidden Wireless: 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 perform scan to see what's available. In order for your wireless devices to connect to your AP, you will need to manually enter the Wireless Network Name on each device.

Security Keys: If you have enabled Wireless Security, make sure you write down WEP Key or Passphrase that you have configured. You will need to enter this

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.

Transmission Rate: Select the transmit rate. It is strongly suggested to select **Best (automatic)** for best performance.

Enable Hidden Wireless: Check the box if you do not want the SSID of your wireless network to be broadcasted by the DAP-1360. If checked, the SSID of the DAP-1360 will not be seen by Site Survey utilities so your wireless clients will have to know the SSID of your DAP-1360 in order to connect to it.

Security Mode: Refer to page 74 for more information regarding the wireless security.

Enable: Enable the Wi-Fi Protected Setup feature.

Lock 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.

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: Restore the default PIN of the access point.

Reset to Unconfigured: Resets Wi-Fi Protected Status to Not Configured. The Vista WPS icon will only be displayed when the Wi-Fi Protected Status is Not Configured.

Repeater Mode

Enable Wireless: Check the box to enable the wireless function. If you do not want 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** to create a new schedule.

Wireless Mode: Select **Repeater** from the drop-down menu.

Site Survey: Click **Site Survey** to display a list of wireless networks in your area. You may select the wireless access point to connect to.

Wireless Network Name: Enter the SSID of the access point you want to repeat the signal of. If you do not know for sure, click **Site Survey** and select it from the list, if available.

Wireless Channel: The channel will automatically change to the channel of the AP you are connected to.

802.11 Mode: Select the appropriate 802.11 mode based on the wireless clients in your network. The drop-down menu options are **802.11g Only**, **Mixed 802.11b/g**, **802.11b Only**, **802.11n Only**, or **Mixed 802.11b/g/n**.

Channel Width: Select the appropriate channel width between **20MHz** or **Auto 20/40MHz** from the drop-down menu.

Transmission Rate: Select the transmission rate. It is strongly suggested to use the Auto setting for optimal performance.

Enable Hidden Wireless: Check the box if you do not want the SSID to be broadcast by the DAP-1360. This prevents the SSID from being seen by site survey utilities, so any wireless clients will have to be pre-configured with the SSID of the DAP-1360 in order to connect to it.

Wireless Security Mode: Select a wireless security setting. Options are **None**, **WEP**, **WPA**, or **WPA2**. See the Wireless Security section in this manual for a detailed explanation of the wireless security options.

WPS: Select enable if you want to configure the DAP-1360 with Wi-Fi Protection setup.

D-Link

DAP-1360 // SETUP ADVANCED MAINTENANCE STATUS HELP

WIZARD
WIRELESS SETUP
LAN SETUP
LOGOUT

Reboot

WIRELESS NETWORK

Use this section to configure the wireless settings for your D-Link Access Point. Please note that changes made on this section may also need to be duplicated on your wireless client.

To protect your privacy you can configure wireless security features. This device supports three wireless security modes including: WEP or WPA and WPA2.

Save Settings Don't Save Settings

WIRELESS NETWORK SETTINGS :

Enable Wireless : ☒ Always Add New

Wireless Mode : Repeater Site Survey

Wireless Network Name : dlink6139 (Also called the SSID)

Enable Auto Channel Scan : ☒

Wireless Channel : 6

802.11 Mode : Mixed 802.11n, 802.11g and 802.11b

Channel Width : Auto 20/40MHz

Transmission Rate : Auto

Enable Hidden Wireless : ☐ (Also called Disable SSID Broadcast)

WIRELESS SECURITY MODE :

Security Mode : Disable Wireless Security (not recommended)

WIFI PROTECTED SETUP (ALSO CALLED WCN 2.0 IN WINDOWS VISTA) :

Enable : ☒

Helpful Hints..

Wireless Mode:
Select a function mode to configure your wireless network. Function wireless modes include Access Point, AP Client, Bridge, Bridge with AP, Repeater, WISP Client Router and WISP Repeater. Function wireless modes are designed to support various wireless network topologies and applications.

Wireless Network Name:
Changing your Wireless Network Name is the first step in securing your wireless network. We recommend that you change it to a familiar name that does not contain any personal information.

Hidden Wireless:
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 perform scan to see what's available. In order for your wireless devices to connect to your AP, you will need to manually enter the Wireless Network Name on each device.

Wireless Client Mode

Enable Wireless: Check the box to enable the wireless function. If you do not want 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** to create a new schedule.

Wireless Mode: Select **Wireless Client Mode** from the drop-down menu.
Site Survey:

Wireless Type: Click **Site Survey** to display a list of wireless networks in your area. You may select the wireless access point to connect to. Select **Infrastructure** if connecting to an access point or wireless router, or select **Ad-Hoc** if connecting to another wireless client.

Wireless Network Name: Enter the SSID of the access point you want to repeat the signal of. If you do not know for sure, click **Site Survey** and select it from the list, if available.

Wireless Channel: The channel will automatically change to the channel of the AP you are connected to.

802.11 Mode: Select the appropriate 802.11 mode based on the wireless clients in your network. The drop-down menu options are **802.11g Only**, **Mixed 802.11b/g**, **802.11b Only**, **802.11n Only**, or **Mixed 802.11b/g/n**.

Channel Width: Select the appropriate channel width between **20MHz** or **Auto 20/40MHz** from the drop-down menu.

Transmission Rate: Select the transmission rate. It is strongly suggested to use the Auto setting for optimal performance.

Wireless MAC Clone: You can clone the wireless MAC address to connect the device.

Wireless Security Mode: Select a wireless security setting. Options are **None**, **WEP**, **WPA**, or **WPA2**. See the Wireless Security section in this manual for a detailed explanation of the wireless security options.

WPS: Select enable if you want to configure the DAP-1360 with Wi-Fi Protection setup.

The screenshot shows the D-Link DAP-1360 web interface. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar contains links for WIZARD, WIRELESS SETUP, LAN SETUP, and LOGOUT. The main content area is titled "WIRELESS NETWORK" and contains the following sections:

- WIRELESS NETWORK:** A message stating: "Use this section to configure the wireless settings for your D-Link Access Point. Please note that changes made on this section may also need to be duplicated on your wireless client." Below this is a note about wireless security features and buttons for "Save Settings" and "Don't Save Settings".
- WIRELESS NETWORK SETTINGS:**
 - Enable Wireless: ☒ Always (Add New)
 - Wireless Mode: Wireless Client (Site Survey)
 - Wireless Type: Infrastructure
 - Wireless Network Name: dlink139 (Also called the SSID)
 - Enable Auto Channel Scan: ☒
 - Wireless Channel: 6
 - 802.11 Mode: Mixed 802.11n, 802.11g and 802.11b
 - Channel Width: Auto 20/40MHz
 - Transmission Rate: Auto
 - Enable Hidden Wireless: ☐ (Also called Disable SSID Broadcast)
- WIRELESS MAC CLONE:**
 - Enable: ☐
 - MAC Source: Auto
 - MAC Address: [Empty field]
 - Scan button
 - MAC Address: [Empty field]
- WIRELESS SECURITY MODE:**
 - Security Mode: Disable Wireless Security (not recommended)

On the right side of the interface, there is a "Helpful Hints..." section with the following text:

- Wireless Mode:** Select a function mode to configure your wireless network. Function wireless modes include Access Point, AP Client, Bridge, Bridge with AP, Repeater, WISP Client Router and WISP Repeater. Function wireless modes are designed to support various wireless network topologies and applications.
- Wireless Network Name:** Changing your Wireless Network Name is the first step in securing your wireless network. We recommend that you change it to a familiar name that does not contain any personal information.
- Hidden Wireless:** 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 perform scan to see what's available. In order for your wireless devices to connect to your AP, you will need to manually enter the Wireless Network Name on each device.
- Security Keys:** If you have enabled Wireless Security, make sure you write down WEP Key or Passphrase that you have configured. You will need to enter this information on any wireless device that you connect to your wireless network.
- Bridge setting:** If you want to bridge with

Bridge Mode

Enable Wireless: Select this to turn the Wi-Fi module on and off. Use the drop-down box to select if you want to use a schedule. Click **Add New** to add or change a schedule.

Wireless Network Name: The Wireless Network Name is a unique name that identifies a network. All devices on a network must share the same wireless network name in order to communicate on the network. If you decide to change the wireless network name from the default setting, enter your new wireless network name in this field.

Wireless Channel: All devices on the network must share the same channel.

802.11 Mode: Select the appropriate 802.11 mode based on the wireless clients in your network. The drop-down menu options are **802.11g Only**, **Mixed 802.11b/g**, **802.11b Only**, **802.11n Only**, or **Mixed 802.11b/g/n**.

Channel Width: Select the appropriate channel width between **20MHz** or **Auto 20/40MHz** from the drop-down menu.

Transmission Rate: Select the transmission rate. It is strongly suggested to use the Auto setting for optimal performance.

Remote AP MAC: Enter the MAC addresses of the APs in your network that will serve as bridges to wirelessly connect multiple networks.

Bridge Security: Select None to disable encryption to across the network. Select WEP 64-bit or WEP 128-bit to limit communication to only those devices that share the same WEP settings. Select **WPA-PSK** or **WPA2-PSK** to secure your network using a password and dynamic key changes (No RADIUS server required).

D-Link

DAP-1360

SETUP ADVANCED MAINTENANCE STATUS HELP

WIZARD
WIRELESS SETUP
LAN SETUP
LOGOUT

Reboot

WIRELESS NETWORK

Use this section to configure the wireless settings for your D-Link Access Point. Please note that changes made on this section may also need to be duplicated on your wireless client.

To protect your privacy you can configure wireless security features. This device supports three wireless security modes including: WEP or WPA and WPA2.

Save Settings Don't Save Settings

WIRELESS NETWORK SETTINGS :

Enable Wireless : ☒ Always

Wireless Mode : Bridge

Wireless Network Name : dlink6139 (Also called the SSID)

Enable Auto Channel Scan : ☐

Wireless Channel : 6

802.11 Mode : Mixed 802.11n, 802.11g and 802.11b

Channel Width : Auto 20/40MHz

Transmission Rate : Auto

Enable Hidden Wireless : ☐ (Also called Disable SSID Broadcast)

BRIDGE SETTING :

Remote AP Mac: 1. 2.
3. 4.
5. 6.
7. 8.

Bridge Security: none

WEP Key: ASCII

Passphrase: (8~63 char.)

Helpful Hints..

Wireless Mode:
Select a function mode to configure your wireless network. Function wireless modes include Access Point, AP Client, Bridge, Bridge with AP, Repeater, WISP Client Router and WISP Repeater. Function wireless modes are designed to support various wireless network topologies and applications.

Wireless Network Name:
Changing your Wireless Network Name is the first step in securing your wireless network. We recommend that you change it to a familiar name that does not contain any personal information.

Hidden Wireless:
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 perform scan to see what's available. In order for your wireless devices to connect to your AP, you will need to manually enter the Wireless Network Name on each device.

Security Keys:
If you have enabled Wireless Security, make sure you write down WEP Key or Passphrase that you have configured. You will need to enter this

Note: The Bridge mode is not completely specified in the Wi-Fi or IEEE standards. This mode can work with other DAP-1360 units. Communication with other APs (even other D-Link APs) is not guaranteed.

Bridge with AP Mode

Enable Wireless: Select this to turn the Wi-Fi module on and off. Use the drop-down box to select if you want to use a schedule. Click **Add New** to add or change a schedule.

Wireless Network Name: The Wireless Network Name is a unique name that identifies a network. All devices on a network must share the same wireless network name in order to communicate on the network. If you decide to change the wireless network name from the default setting, enter your new wireless network name in this field.

Wireless Channel: All devices on the network must share the same channel.

802.11 Mode: Select the appropriate 802.11 mode based on the wireless clients in your network. The drop-down menu options are **802.11g Only**, **Mixed 802.11b/g**, **802.11b Only**, **802.11n Only**, or **Mixed 802.11b/g/n**.

Channel Width: Select the appropriate channel width between **20MHz** or **Auto 20/40MHz** from the drop-down menu.

Transmission Rate: Select the transmission rate. It is strongly suggested to use the **Auto** setting for optimal performance.

Enable Hidden Wireless: Check the box if you do not want the SSID to be broadcast by the DAP-1360. This prevents the SSID from being seen by site survey utilities, so any wireless clients will have to be pre-configured with the SSID of the DAP-1360 in order to connect to it.

Remote AP MAC: Enter the MAC addresses of the APs in your network that will serve as bridges to wirelessly connect multiple networks.

Bridge Security: Select None to disable encryption to across the network. Select WEP 64-bits or WEP 128-bits to limit communication to only those devices that share the same WEP settings. Select **WPA-PSK** or **WPA2-PSK** to secure your network using a password and dynamic key changes (No RADIUS server required).

D-Link

DAP-1360

SETUP ADVANCED MAINTENANCE STATUS HELP

WIZARD
WIRELESS SETUP
LAN SETUP
LOGOUT

Reboot

WIRELESS NETWORK

Use this section to configure the wireless settings for your D-Link Access Point. Please note that changes made on this section may also need to be duplicated on your wireless client.

To protect your privacy you can configure wireless security features. This device supports three wireless security modes including: WEP or WPA and WPA2.

Save Settings Don't Save Settings

WIRELESS NETWORK SETTINGS :

Enable Wireless : ☒ Always Add New

Wireless Mode : Bridge with AP Site Survey

Wireless Network Name : dlink139 (Also called the SSID)

Enable Auto Channel Scan : ☐

Wireless Channel : 6

802.11 Mode : Mixed 802.11n, 802.11g and 802.11b

Channel Width : Auto 20/40MHz

Transmission Rate : Auto

Enable Hidden Wireless : ☐ (Also called Disable SSID Broadcast)

WIRELESS SECURITY MODE :

Security Mode : Disable Wireless Security (not recommended)

BRIDGE SETTING :

Remote AP Mac: 1. 2. 3. 4. 5. 6. 7. 8.

Bridge Security: none

WEP Key: ASCII

Passphrase: (8~63 char.)

Helpful Hints..

Wireless Mode:
Select a function mode to configure your wireless network. Function wireless modes include Access Point, AP Client, Bridge, Bridge with AP, Repeater, WISP Client Router and WISP Repeater. Function wireless modes are designed to support various wireless network topologies and applications.

Wireless Network Name:
Changing your Wireless Network Name is the first step in securing your wireless network. We recommend that you change it to a familiar name that does not contain any personal information.

Hidden Wireless:
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 perform scan to see what's available. In order for your wireless devices to connect to your AP, you will need to manually enter the Wireless Network Name on each device.

Security Keys:
If you have enabled Wireless Security, make sure you write down WEP Key or Passphrase that you have configured. You will need to enter this information on any wireless device that you connect to your wireless network.

Bridge setting:
If you want to bridge with

Note: The Bridge mode is not completely specified in the Wi-Fi or IEEE standards. This mode can work with other DAP-1360 units. Communication with other APs (even other D-Link APs) is not guaranteed.

WISP Client Router/WISP Repeater Modes

Enable Wireless: Select this to turn the Wi-Fi module on and off. Use the drop-down box to select if you want to use a schedule. Click **Add New** to add or change a schedule.

Site Survey: Click this button to choose the root AP from an available connection list. If the root AP has wireless encryption, you have to use the same wireless security mode to connect the root AP.

Wireless Network Name: You can input the wireless network name of the root AP or click the **Site Survey** button to find the root AP.

Wireless Channel: The channel used will be displayed. The channel will follow the root AP.

802.11 Mode: Select the appropriate 802.11 mode based on the wireless clients in your network. The drop-down menu options are **802.11g Only**, **Mixed 802.11b/g**, **802.11b Only**, **802.11n Only**, or **Mixed 802.11b/g/n**.

Channel Width: Select the appropriate channel width between **20MHz** or **Auto 20/40MHz** from the drop-down menu.

Transmission Rate: Select the transmission rate. It is strongly suggested to use the Auto setting for optimal performance.

Enable Hidden Wireless: This option is unavailable in WISP Client Router and available in the WISP Repeater mode.

Wireless Security Mode: Select a wireless security setting. Options are None, WEP, WPA, or WPA2. Refer to the **Wireless Security** section of this manual for a detailed explanation of the wireless security options.

The screenshot shows the D-Link DAP-1360 configuration interface. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar contains links for WIZARD, WIRELESS SETUP, LAN SETUP, and LOGOUT, along with a Reboot button. The main content area is titled 'WIRELESS NETWORK' and contains the following sections:

- WIRELESS NETWORK:** A note stating that changes made in this section may also need to be duplicated on the wireless client. Below this is a 'Save Settings' button and a 'Don't Save Settings' button.
- WIRELESS NETWORK SETTINGS:**
 - Enable Wireless: ☒ Always (with an 'Add New' button)
 - Wireless Mode: WISP Repeater (with a 'Site Survey' button)
 - Wireless Network Name: dlink6139 (Also called the SSID)
 - Enable Auto Channel Scan: ☒
 - Wireless Channel: 6
 - 802.11 Mode: Mixed 802.11n, 802.11g and 802.11b
 - Channel Width: Auto 20/40MHz
 - Transmission Rate: Auto
 - Enable Hidden Wireless: ☐ (Also called Disable SSID Broadcast)
- WIRELESS SECURITY MODE:**
 - Security Mode: Enable WPA Wireless Security (enhanced)
- WPA:**
 - WPA requires stations to use high grade encryption and authentication.
 - Cipher Type: TKIP
 - PSK / EAP: Personal
 - Passphrase: JUMVWK63SWUOYDU5E5V17ADYJ
 - Confirmed Passphrase: JUMVWK63SWUOYDU5E5V17ADYJ

On the right side of the page, there are 'Helpful Hints..' and 'Security Keys' sections providing additional information about wireless modes and security settings.

WAN Settings

Dynamic IP (DHCP)

WAN settings are only used in the WISP Client Router wireless mode and the WISP Repeater wireless mode. Choose Dynamic IP(DHCP) to obtain IP Address information automatically from your ISP. Select this option if your ISP does not give you any IP number to use. This option is commonly used for Cable modem services.

Host Name: The Host Name is optional but may be required by some ISPs.

MTU Size: You may need to change the MTU (Maximum Transmission Unit) for optimal performance with your specific ISP. The default MTU size is 1500.

Attain DNS Automatically: Select this option if you want the DAP-1360 to get the DNS (Domain Name System) server IP address automatically.

Set DNS manually: Select this option if you want to manually enter the DNS Server IP address(es). The fields to enter the Primary and Secondary DNS server IP addresses will appear after you have selected this option.

DNS Server: Enter the Primary and Secondary DNS server IP address assigned by your ISP.

Clone MAC Address: The default MAC address is set to the Ethernet MAC address your DAP-1360. You can click the Clone Your PC's MAC Address button to replace the AP's MAC address with the MAC address of the PC that you used to register with your ISP. It is not recommended that you change the default MAC address unless required by your ISP.

The screenshot shows the 'WAN SETTINGS' configuration page. At the top, it states: 'This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point. Here you may change the access method to static IP, DHCP, PPPoE or PPTP by click the item value of WAN Access type.' Below this, the 'My Internet Connection is:' dropdown menu is set to 'Dynamic IP(DHCP)'. The 'Host Name:' field is empty. The 'MTU Size:' is set to '1500' (bytes), with a note '(bytes) MTU default = 1500'. There are two radio buttons for DNS: 'Attain DNS Automatically' (selected) and 'Set DNS Manually'. The 'Clone MAC Address:' field shows '000000000000', and there is a button labeled 'Clone Your PC's MAC Address'.

Static IP

Select Static IP if all WAN IP information is provided to you by your ISP. You will need to enter in the IP address, subnet mask, gateway address, and DNS address(es) provided to you by your ISP.

IP Address: 192.168.1.1 is the default WAN IP Address of the DAP-1360.

Subnet Mask: 255.255.255.0 is the default subnet mask. All devices on the network must have the same subnet mask to communicate on the network.

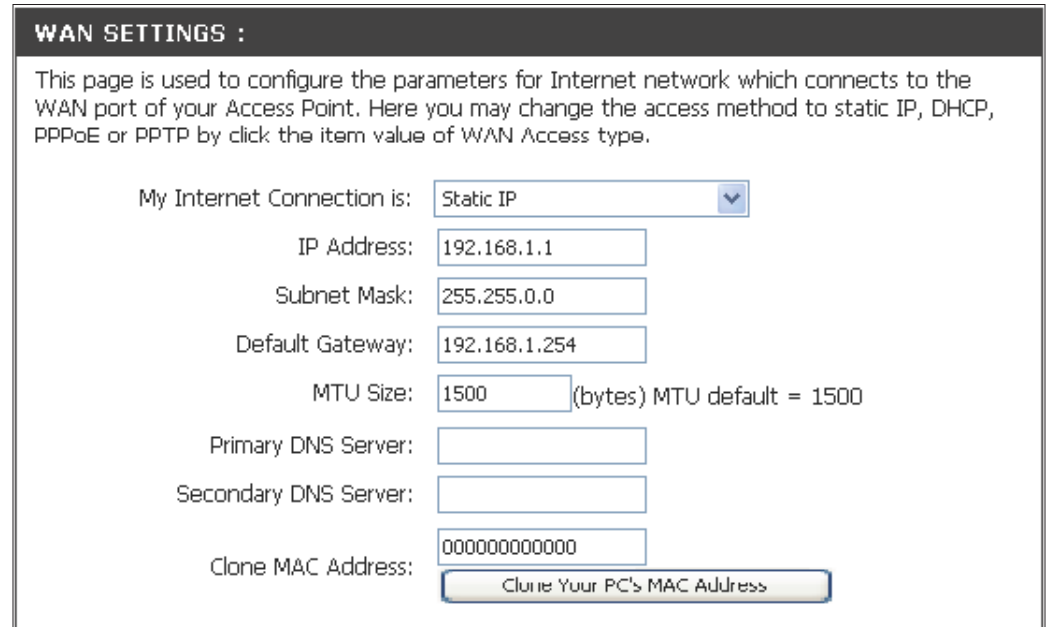
Default Gateway: Enter the IP Address of the gateway in your network.

MTU Size: You may need to change the MTU (Maximum Transmission Unit) for optimal performance with your specific ISP. The default MTU size is 1500.

Primary DNS Server: Enter the Primary DNS (Domain Name System) server IP address assigned by your ISP.

Secondary DNS Server: Enter the Secondary DNS (optional) server IP address assigned by your ISP.

Clone MAC Address: The default MAC address is set to the MAC address on the AP (Access Point). You can click the Clone Your PC's MAC Address button to replace the AP's MAC address with the MAC address of your Ethernet card. It is not recommended that you change the default MAC address unless required by your ISP.



WAN SETTINGS :

This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point. Here you may change the access method to static IP, DHCP, PPPoE or PPTP by click the item value of WAN Access type.

My Internet Connection is:

IP Address:

Subnet Mask:

Default Gateway:

MTU Size: (bytes) MTU default = 1500

Primary DNS Server:

Secondary DNS Server:

Clone MAC Address:

PPPoE

Select PPPoE (Point-to-Point Protocol over Ethernet) if your ISP uses a PPPoE connection. Your ISP will provide you with a username and password. This option is typically used for DSL services. Make sure to remove your PPPoE software from your computer. The software is no longer needed and will not work through the DAP-1360.

Username: 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 Type: Select **Always on**, **On demand**, or **Manual**.

Maximum Idle Time: Enter a maximum idle time during which the Internet connection is maintained during inactivity.

MTU Size: You may need to change the MTU (Maximum Transmission Unit) for optimal performance with your specific ISP. The maximum/default MTU size is 1492.

Attain DNS Automatically: Select this option if you want the DAP-1360 to get the DNS (Domain Name System) server IP address automatically.

Set DNS Manually: Select this option if you want to manually enter the DNS Server IP address(es). Fields to enter the Primary and Secondary DNS server IP addresses will appear after you select this option.

DNS Servers: Enter the Primary and Secondary DNS server IP address assigned by your ISP.

Clone MAC Address: The default MAC address is set to the MAC address on the AP (Access Point). You can click the **Clone Your PC's MAC Address** button to replace the AP's MAC address with the MAC address of your Ethernet card. It is not recommended that you change the default MAC address unless required by your ISP.

WAN SETTINGS :

This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point. Here you may change the access method to static IP, DHCP, PPPoE or PPTP by click the item value of WAN Access type.

My Internet Connection is: PPPoE(Username / Password) ▼

Username:

Password:

Verify Password:

Service Name: (optional)

Reconnection Type: Always on ▼ Connect Disconnect

Maximum Idle Time: (1-1000 minutes)

MTU Size: (bytes) MTU default = 1492

☐ Attain DNS Automatically

☒ Set DNS Manually

Primary DNS Server:

Secondary DNS Server:

Clone MAC Address: Clone Your PC's MAC Address

PPTP

Choose PPTP (Point-to-Point Tunneling Protocol) if your ISP uses a PPTP connection. Your ISP will provide you with a username and password. This option is typically used for DSL services.

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

PPTP Subnet Mask: Enter the subnet mask.

PPTP Server IP Address: Enter the Server IP Address provided by your ISP.

Username: Enter your PPTP username.

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

MTU Size: You may need to change the MTU (Maximum Transmission Unit) for optimal performance with your specific ISP. The default MTU size is 1400.

Attain DNS Automatically: Select this option if you want the DAP-1360 get DNS server IP address automatically.

Set DNS Automatically: Select this option if you want to manually enter the DNS Server IP address(es). Fields to enter the Primary and Secondary DNS server IP addresses will appear after you select this option.

DNS Servers: Enter the Primary and Secondary DNS (Domain Name System) server IP address assigned by your ISP.

Clone MAC Address: The default MAC address is set to the MAC address on the AP (Access Point). You can click the **Clone Your PC's MAC Address** button to replace the AP's MAC address with the MAC address of your Ethernet card. It is not recommended that you change the default MAC address unless required by your ISP.

WAN SETTINGS :

This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point. Here you may change the access method to static IP, DHCP, PPPoE or PPTP by click the item value of WAN Access type.

My Internet Connection is:

PPTP(Username / Password)

PPTP IP Address:

0.0.0.0

PPTP Subnet Mask:

0.0.0.0

PPTP Server IP Address:

0.0.0.0

Username:

Password:

Verify Password:

MTU Size:

1400

(bytes) MTU default = 1400

☒ Attain DNS Automatically

☐ Set DNS Manually

Clone MAC Address:

000000000000

Clone Your PC's MAC Address

LAN Settings

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. It is recommended to change the Device Name if there is more than one D-Link device within the subnet.

The screenshot shows the D-Link DAP-1360 Web-based Management Interface. The top navigation bar includes tabs for WIZARD, WIRELESS SETUP, LAN SETUP, and LOGOUT. The main content area is titled "NETWORK SETTINGS" and contains the following sections:

- NETWORK SETTINGS :** A brief explanation of the section's purpose and buttons for "Save Settings" and "Don't Save Settings".
- LAN CONNECTION TYPE :** A section where the user can choose the mode to be used by the Access Point. The "My LAN Connection is :" dropdown menu is set to "Dynamic IP(DHCP)".
- DYNAMIC IP (DHCP) LAN CONNECTION TYPE :** A section for IP Address Information with input fields for IP Address (192.168.0.50), Subnet Mask (255.255.255.0), and Gateway Address (0.0.0.0).
- DEVICE NAME (NETBIOS NAME) :** A section where the user can enter the Device Name, which is currently set to "dlinkap".

On the right side of the interface, there is a "Helpful Hints.." section with "LAN Settings:" and "IP Address:" information.

Static IP

Select Static IP Address if all the Internet port's IP information is provided to you by your ISP. You will need to enter in the IP address, subnet mask, gateway address, and DNS address(es) provided to you by your ISP. Each IP address entered in the fields must be in the appropriate IP form, which are four octets separated by a dot (x.x.x.x). The Access point will not accept the IP address if it is not in this format.

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

Access Point IP Address: Enter the IP address of the access point. The default IP address is 192.168.0.50. If you change the IP address, once you click **Apply**, you will need to enter the new IP address in your browser to get back into the configuration utility.

Subnet Mask: Enter the Subnet Mask assigned by your ISP.

Default Gateway: Enter the Gateway assigned by your ISP.

Device Name: Enter the Device Name of the AP. It is recommended to 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 the instead of IP address for configuration. If you are using the device name to connect, ensure that your PC and your DAP-1360 are on the same network.

Enable DHCP Server: Select this to enable the DHCP server if static IP address is selected.

DHCP IP Address Range Lease Time: Enter the starting and ending IP addresses for the DHCP server's IP assignment. Enter the length of time for the IP address lease.

The screenshot shows the D-Link DAP-1360 web-based configuration utility. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar contains links for WIZARD, WIRELESS SETUP, LAN SETUP, and LOGOUT, along with a Reboot button. The main content area is titled 'NETWORK SETTINGS' and contains the following sections:

- NETWORK SETTINGS :** A message states: 'Use this section to configure the internal network settings of your AP and also to configure the built-in DHCP Server to assign IP addresses to the computers on your network. The IP Address that is configured here is the IP Address that you use to access the Web-based management interface. If you change the IP Address here, you may need to adjust your PC's network settings to access the network again.' Below this are 'Save Settings' and 'Don't Save Settings' buttons.
- LAN CONNECTION TYPE :** A message says 'Choose the mode to be used by the Access Point.' Below it, 'My LAN Connection is:' is followed by a dropdown menu set to 'Static IP'.
- STATIC IP ADDRESS LAN CONNECTION TYPE :** A message says 'Enter the static address information.' Below it are three input fields: 'IP Address' (192.168.0.50), 'Subnet Mask' (255.255.255.0), and 'Gateway Address' (0.0.0.0).
- DEVICE NAME (NETBIOS NAME) :** An input field for 'Device Name' containing 'dlinkap'.
- DHCP SERVER SETTINGS :** A message says 'Use this section to configure the built-in DHCP Server to assign IP addresses to the computers on your network.' Below it are:
 - 'Enable DHCP Server' with an unchecked checkbox.
 - 'DHCP IP Address Range' with input fields for '192.168.0.100' and '192.168.0.200', with a note '(addresses within the LAN subnet)'.
 - 'DHCP Lease Time' with a dropdown menu set to '1 Week'.

On the right side of the page, there is a 'Helpful Hints..' section with the following information:

- LAN Settings:**
 - LAN Connection type:** The Factory default setting is "Static IP" which allows the IP address of the DAP-1360 to be manually configured in accordance to the applied local area network. Enable Dynamic (DHCP) to allow the DHCP host to automatically assign the Access Point an IP address that conforms to the applied local area network.
 - IP Address:** The default IP address is 192.168.0.50. 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 DAP-1360 IP address as an example, each station associated to the AP must be configured with a unique IP address falling in the range of 192.168.0.*, * ranges from 1 to 254 but 50 in this case.
 - Subnet Mask:** A mask used to determine what subnet an IP address belongs to. The default subnet setting is 255.255.255.0.
 - Gateway:** Specify the gateway IP address of the local

Advanced Advanced Wireless

Transmit Power: Sets the transmit power of the antennas.

Beacon Period: Beacons are packets sent by an access point to synchronize a wireless network. Specify a value. 100 is the default setting and is recommended.

RTS Threshold: This value should remain at its default setting of 2346. If inconsistent data flow is a problem, only a minor modification should be made.

Fragmentation Threshold: The fragmentation threshold, which is specified in bytes, determines whether packets will be fragmented. Packets exceeding the 2346 byte setting will be fragmented before transmission. 2346 is the default setting.

DTIM Interval: (Delivery Traffic Indication Message) 1 is the default setting. A DTIM is a countdown informing clients of the next window for listening to broadcast and multicast messages.

Preamble Type: Select Short or Long Preamble. The default setting in Long Preamble. The Preamble defines the length of the CRC block (Cyclic Redundancy Check) is a common technique for detecting data transmission errors) for communication between the access point and roaming wireless network adapters. High network traffic areas should use the short preamble type.

WMM Enable: WMM is QoS for your wireless network. This will improve the quality of video and voice applications for your wireless clients.

Enable Multicast Streams: This function will enhance your network performance when you use multicast services such as video conferencing and video/audio streaming.

D-Link

DAP-1360 // SETUP ADVANCED MAINTENANCE STATUS HELP

ADVANCED WIRELESS

ADVANCED WIRELESS SETTINGS :

If you are not familiar with these Advanced Wireless settings, please read the help section before attempting to modify these settings.

Save Settings Don't Save Settings

ADVANCED WIRELESS SETTINGS :

Transmit Power : 100%
 Beacon Period : 100 (msec, range:20~1024, default:100)
 RTS Threshold : 2347 (range: 256~2347, default:2347)
 Fragmentation Threshold : 2346 (range: 256~2346, default:2346, even number only)
 DTIM Interval : 3 (range: 1~255, default:3)
 Preamble Type : ☒ Long Preamble ☐ Short Preamble
 WMM Enable : ☒
 Enable Multicast Streams : ☒

Helpful Hints..

Advanced Wireless:
 It is recommended that you leave these options at their default values. Adjusting them could negatively impact the performance of your wireless network. The options on this page should be changed by advanced users or if you are instructed to by one of our support personnel, as they can negatively affect the performance of your Access Point if configured improperly.

Transmit Power:
 You can lower the output power of the DAP-1360 by selecting lower percentage Transmit Power values from the drop down. Your choices are: 100%, 50%,

Access Control

Access Control allows you to allow or deny wireless clients access to your wireless network.

Access Control: Use the drop-down menu to select either **Disable**, **Accept**, or **Reject**.

MAC Address: Enter the MAC address of the wireless client to accept or reject.

Connected PCs: You may select the client already connected to the access point from the drop-down menu. Select the MAC address and click the **Clone** button. Click **Save Settings**.

MAC Filter List: Lists the clients currently in your access control list.

The screenshot shows the D-Link DAP-1360 web interface. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar lists menu items: ADVANCED WIRELESS, ACCESS CONTROL (selected), USER LIMIT, and LOGOUT. A Reboot button is also visible in the sidebar.

The main content area is titled "ACCESS CONTROL :". It contains a description: "The DAP-1360 can be setup to deny or only allow access to wireless clients with the listed MAC addresses." Below this are two buttons: "Save Settings" and "Don't Save Settings".

Below the buttons is a section titled "WIRELESS ACCESS SETTINGS". It includes the instruction: "Use the client's MAC Address to authorize network access through the Access Point." The settings include:

- Access Control : A dropdown menu currently set to "Disable".
- MAC Address : A field with six input boxes for hexadecimal digits and a "Clear" button.
- Connected PCs : A dropdown menu showing "00-18-41-A9-AC-0D" and a "Clone" button.

At the bottom is a table titled "MAC FILTER LIST":

MAC Address	Edit	Del

On the right side of the interface, there are "Helpful Hints..":

- Wireless Access Settings:** Create a list of MAC addresses that you would either like to accept or reject access to your network.
- Connected PCs:** It will show the MAC address of all connected STAs. You can select what you want and click "done". Then the MAC address will show into "MAC address" part automatically.
- IP Filter:** Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.

User Limit

Enter the maximum number of wireless clients that can connect at one time to your access point.

Enable User Limit: Check the **Enable User Limit** box to enable this feature.

User Limit: Enter the maximum number of clients, between 1 and 32.

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

The screenshot shows the D-Link DAP-1360 web interface. The top navigation bar includes 'DAP-1360', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists 'ADVANCED WIRELESS', 'ACCESS CONTROL', 'USER LIMIT', 'LOGOUT', and a 'Reboot' button. The main content area is titled 'USER LIMIT SETTINGS' and contains the text: 'Please apply the settings to limit how many wireless stations connecting to AP.' Below this text are two buttons: 'Save Settings' and 'Don't Save Settings'. At the bottom, there is a section titled 'USER LIMIT SETTINGS' with two fields: 'Enable User Limit' with a checked checkbox, and 'User Limit (1 - 32)' with a text box containing the value '6'. A 'Helpful Hints..' link is visible on the right side of the interface.

Port Forwarding (WISP modes only)

This function is available if your DAP-1360 is in the WISP Client Router or WISP Repeater mode. This feature allows you to open a single port or a range of ports. Click **Save Settings** and the port forwarding rule will be put into the Port Forwarding List.

Port Forwarding Rules: Check the box to configure a port forwarding rule.

Name: Enter a name for the rule. You can select an application name from the Application Name drop-down menu. Click the << button to fill in the Name field with the application name that you selected.

IP Address: Enter the IP address of the computer on your local network that you want to allow the incoming service to.

Start/End Ports: Enter the port or ports that you want to open. If you want to open one port, enter the same port in both boxes.

Traffic Type: Select **TCP**, **UDP**, or **Both**.

PORT FORWARDING RULES

Entries in this table allow you to automatically redirect common network services to a specific machine behind the NAT firewall. These settings are only necessary if you wish to host some sort of server like a web server or mail server on the private local network behind your Gateway's NAT firewall.

	Name	IP Address	Port	Traffic Type
<input type="checkbox"/>	<input type="text"/> << Application Name	<input type="text"/> << Computer Name	Start <input type="text"/> End <input type="text"/>	Both

PORT FORWARD LIST

Current Port Forwarding Table:

Name	IP Address	Protocol	Port Range	Select
Delete Selected Delete All Reset				

Port Filter (WISP modes only)

This function is available if your DAP-1360 is in the WISP Client Router or WISP Repeater mode. This feature is used to secure or restrict your local network. It will deny the ports that you enter from the local network to the Internet. Click **Save Settings** and the port filter rule will be put into the Port Filter List.

Port Filter Rules: Check the box to configure a port filter rule.

Name: Enter a name for the rule. You can select an application name from the Application Name drop-down menu. Click the << button to fill in the Name field with the application name that you selected.

Start/End Ports: Enter the port or ports that you want to open. If you want to open one port, enter the same port in both boxes.

Traffic Type: Select **TCP**, **UDP**, or **Both**.

PORT FILTER RULES

Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.

<input type="checkbox"/>	Name	<< Application Name	Port Start End	Traffic Type Both
--------------------------	------	---------------------	----------------------	----------------------

PORT FILTER LIST

Current Port Filter Table:

Name	Port Range	Protocol	Select
Delete Selected Delete All Reset			

DMZ (WISP modes only)

This function is available only if the DAP-1360 is in the WISP Client Router or WISP Repeater mode. This feature allows you to set up a DMZ (Demilitarized Zone) host. If you have a client PC that cannot run Internet applications properly from behind the DAP-1360, then you can set the client up for unrestricted Internet access. The DMZ allows a computer to be exposed to the Internet. This feature is useful for gaming purposes. Enter the IP address of the computer that will be the DMZ host. Adding a client to the DMZ may expose your local network to a variety of security risks, so only use this option as a last resort.

Enable DMZ: Check this box to enable DMZ.

DMZ Host IP Address: Enter the IP address of the computer you would like to open all ports to. You can select a computer from the Computer Name drop-down menu and click << to enter the computer name into the DMZ Host IP Address field.



The screenshot shows a web interface titled "ADVANCED WIRELESS SETTINGS :". Below the title, there is a section for DMZ configuration. It includes a checkbox labeled "Enable DMZ :". Below this, there is a label "DMZ Host IP Address:" followed by a text input field. To the right of the input field is a button with the text "<<" and a dropdown menu labeled "Computer Name".

Parental Control (WISP modes only)

This function is available only if the DAP-1360 is in the WISP Client Router or WISP Repeater mode. This feature allows you to create a list of websites that you want to deny users access.

Configure Website Filtering Below: Select **Turn Website Filtering OFF** or **Turn Website Filtering ON and DENY computers access to ONLY these sites.**

Website URL Address: Enter a keyword or URL that you want to block and click **Save Settings**. Any URL that contains the keyword will be blocked.

PARENTAL CONTROL :

The Parental Control allows you to set-up a list of Websites that the users on your network will either be allowed or denied access to.

WEBSITE FILTERING RULES

URL filter is used to deny LAN users from accessing the internet. Block those URLs which contain keywords listed below.

Configure Website Filtering below:

Website URL Address or keyword

WEB FILTER LIST

Current Filter Table:

URL Address or keyword	Select
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>	

Advanced Network (WISP modes only)

This function is available if the DAP-1360 is in WISP Client Router or WISP Repeater mode. This feature allows you to change the LAN settings. Please be aware that any changes to the factory default settings may affect the behavior of your network.

Enable UPnP: Check this box to use the Universal Plug and Play (UPnP™) feature. UPnP provides compatibility with networking equipment, software and peripherals.

Enable WAN Ping Respond: Check this box to allow the WAN port of the DAP-1360 to be pinged. Unchecking the box will not allow the DAP-1360 to respond to pings. Blocking ping response may provide some extra security from intruders.

Remote Management: Remote management allows the DAP-1360 to be configured from the Internet by a web browser. A username and password are 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.

UPNP : Universal plug and Play (UPnP) supports peer-to-peer Plug and Play functionality for network devices. Enable UPnP: <input type="checkbox"/>
WAN PING : If you enable this feature, the WAN port of your DAP-1360 will respond to ping requests from the Internet that are sent to the WAN IP Address. Enable WAN Ping Respond: <input type="checkbox"/>
REMOTE MANAGEMENT : If you enable this feature, you can manage the DAP-1360 from anywhere on the Internet. Enable Remote Management: <input type="checkbox"/>

Maintenance 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 Administrator Login Name. The administrator can make changes to the settings.

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

The screenshot shows the D-Link DAP-1360 Maintenance Admin page. The top navigation bar includes the D-Link logo and tabs for SETUP, ADVANCED, MAINTENANCE (selected), STATUS, and HELP. The left sidebar contains a menu with options: ADMIN, SYSTEM, FIRMWARE, WATCHDOG, TIME, SCHEDULES, LOGOUT, and a Reboot button. The main content area is titled 'DEVICE ADMINISTRATION :'. It contains instructions: 'Enter the new password in the "New Password" field and again in the next field to confirm. Click on "Save Settings" to execute the password change. The Password is case-sensitive, and can be made up of any keyboard characters. The new password must be between 0 and 15 characters in length.' Below the instructions are two buttons: 'Save Settings' and 'Don't Save Settings'. Under the 'PASSWORD :' heading, there are two input fields: 'New Password : *****' and 'Confirm Password : *****'. On the right side, there is a 'Helpful Hints..' section with the following text: 'Passwords: For security reasons, it is recommended that you change the Password for the Administrator accounts. Be sure to write down the Passwords to avoid having to reset the AP in the event that they are forgotten.'

System

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

Upload from Local Hard Drive: Use this option to load previously saved access point configuration settings. Click **Browse** to find a previously saved configuration file. Then, click the **Upload Settings** button to transfer those settings to the access point.

Restore to Factory Default: This option will restore all configuration settings back to the settings that were in effect at the time the access point 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 access point configuration settings, use the **Save** button above.

Note: Restoring the factory default settings will not reset the Wi-Fi Protected Status to Not Configured.

The screenshot shows the D-Link DAP-1360 web interface. The top navigation bar includes the D-Link logo and tabs for SETUP, ADVANCED, MAINTENANCE (selected), STATUS, and HELP. A left sidebar contains links for ADMIN, SYSTEM, FIRMWARE, WATCHDOG, TIME, SCHEDULES, LOGOUT, and a Reboot button. The main content area is titled 'SAVE AND RESTORE :'. It contains a text box stating: 'The current system settings can be saved as a file onto the local hard drive. You can upload any saved settings file that was created by the DAP-1360.' Below this, there are three sections: 'Save Settings To Local Hard Drive :', 'Load Settings From Local Hard Drive :', and 'Restore To Factory Default Settings :'. Each section has a corresponding button: 'Save', 'Browse...' (with an input field), 'Upload Settings', and 'Restore Device'. On the right side, there is a 'Helpful Hints..' section titled 'Saving System Settings:' which explains that users can save their current settings to a file to restore them later if needed.

Firmware

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

Browse: 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.

Upload: Once you have a firmware update on your computer, use this option to browse for the file and then upload the information into the access point.

Language Pack

You can change the language of the web UI by uploading available language packs.

Browse: After you have downloaded the new language pack, click **Browse** to locate the language pack file on your hard drive. Click **Upload** to complete the language pack upgrade.

The screenshot displays the D-Link DAP-1360 web management interface. The top navigation bar includes links for ADMIN, SYSTEM, FIRMWARE, WATCHDOG, TIME, SCHEDULES, and LOGOUT. The main content area is divided into several sections:

- FIRMWARE UPDATE :** Contains instructions on how to upgrade the firmware, a link to check for updates, and a warning not to update through the wireless network.
- FIRMWARE INFORMATION :** Displays the current firmware version (V1.00) and the current firmware date (13, Apr, 2009).
- FIRMWARE UPGRADE :** Includes a note about configuration resets, instructions for upgrading, and an upload section with a file browser and upload button.
- LANGUAGE PACKAGE INFORMATION :** Includes a note about language changes, instructions for upgrading, and an upload section with a file browser and upload button.

On the right side, there is a 'Helpful Hints..' section with additional information about firmware updates.

Watchdog

The Watchdog feature pings a specified IP address. If the IP address stops responding to pings, your AP will be rebooted. You can also select an option to have the DAP-1360 send an e-mail alert if the specified IP address stops responding to pings.

Enable Watchdog (Ping of Life): Check this box to enable the Watchdog (Ping of Life) to check some host IP.

Update Time Interval: Enter the time interval of how often you would like the Watchdog to ping the response IP address.

Watchdog Response IP: Enter the IP address that the Watchdog will ping.

Enable Mail Alert: Check this box to enable e-mail notification for the Watchdog.

SMTP Server: Enter the SMTP server IP address.

Sender E-Mail: Enter the e-mail address from which the notification will be sent.

Receiver E-Mail: Enter the e-mail address which the notification will be sent to.

Enable Authentication: Check the box to enable authentication that is used with the SMTP server.

Account Name: Enter your account name that is used with the SMTP server.

Password: Enter your password that is used with the SMTP server and re-enter it in the next box.

The screenshot shows the D-Link DAP-1360 Web Management Interface. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar lists menu items: ADMIN, SYSTEM, FIRMWARE, WATCHDOG, TIME, SCHEDULES, and LOGOUT. The main content area is titled "WATCHDOG (PING OF LIFE) :". It contains a description: "The Watchdog feature pings a specified IP address. If the IP address stops responding to pings, your access point will be rebooted. You can also select an option to have the DAP-1360 send an e-mail alert if the specified IP address stops responding to pings." Below this are "Save Settings" and "Don't Save Settings" buttons. The "WATCHDOG :" section includes the following fields:

- Enable Watchdog (Ping of Life) : ☒
- Update Time Interval : 1 (minutes, range:1-60, default:1)
- Watchdog Response IP : 0.0.0.0
- Enable Mail Alert : ☐
- SMTP Server :
- Sender E-mail :
- Receiver E-mail :
- Enable Authentication : ☐
- Account Name :
- Password :
- Verify Password :

On the right side, there is a "Helpful Hints.." section with the following information:

- Enable Watchdog (Ping of Life):** Enable the Watchdog (Ping of Life) to check some host IP.
- Update Time Interval:** The interval to ping.
- Watchdog Response IP:** Pair this DAP-1360 with a device that can respond back to the pings.
- Enable Mail Alert:** If you want to enable Mail Alert, you must enable Syslog first. When DAP-1360 can't ping the host IP, the DAP-1360 will send mail to the user.
- SMTP server:** Please enter the mail server IP.
- Mail Address:** Please enter the mail address of the user to be notified.

Time

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. Daylight Saving can also be configured to automatically adjust the time when needed.

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

Daylight Saving: To select Daylight Saving time manually, click the **Enable Daylight Saving** check box. Next use the drop-down menu to select a Daylight Saving Offset and then 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.

Date and Time: To manually input the time, enter the values in these fields for the Year, Month, Day, Hour, Minute, and Second and then click **Save Settings**. You can also click the **Copy Your Computer's Time Settings** button at the bottom of the screen.

D-Link

DAP-1360 //

ADMIN
SYSTEM
FIRMWARE
WATCHDOG
TIME
SCHEDULES
LOGOUT

Reboot

TIME

Time Configuration

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.

Save Settings Don't Save Settings

TIME CONFIGURATION

Time : 01/01/2000 00:10:58

Time Zone : (GMT-08:00) Pacific Time (US & Canada); Tijuana

Enable Daylight Saving : ☐ Auto Adjust ☒ Manual Adjust

Daylight Saving Offset : -2:00

Daylight Saving Dates :

	Month	Week	Day of Week	Time
DST Start			Sun	12 am
DST End			Sun	12 am

AUTOMATIC TIME CONFIGURATION

Enable NTP server : ☐

Interval : 7 Days

NTP Server Used : 123.204.57.143 << 123.204.57.143 - Worldwide

SET THE DATE AND TIME MANUALLY

Current DAP-1360 Time :

Year 2009 Month Jan Day 1

Hour 0 Minute 10 Second 52

Copy Your Computer's Time Settings

Helpful Hints..

System Time Settings: Once your Access Point is configured the way you want it, you can save these settings to a configuration file that can later be loaded in the event that the AP's default settings are restored. To do this, click the **Save** button next to where it says Save Settings to Local Hard Drive.

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 Days** or enter a start and end time for your schedule.

Wireless: Select **On** or **Off** from the drop-down menu.



Add: Click **Add** to save your schedule. You must click **Save Settings** at the top for your schedules to go into effect.

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

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

ADD SCHEDULE RULE :
 Name :
 Day(s) : ☐ All Week ☒ Select Day(s)
☐ Sun ☒ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat
 All Day - 24 hrs : ☐
 Start Time : : (hour:minute, 12 hour time)
 End Time : : (hour:minute, 12 hour time)

SCHEDULE RULES LIST :

Name	Day(s)	Time Frame		
Schedule1	Mon	12:00 AM-03:00 PM		

Status

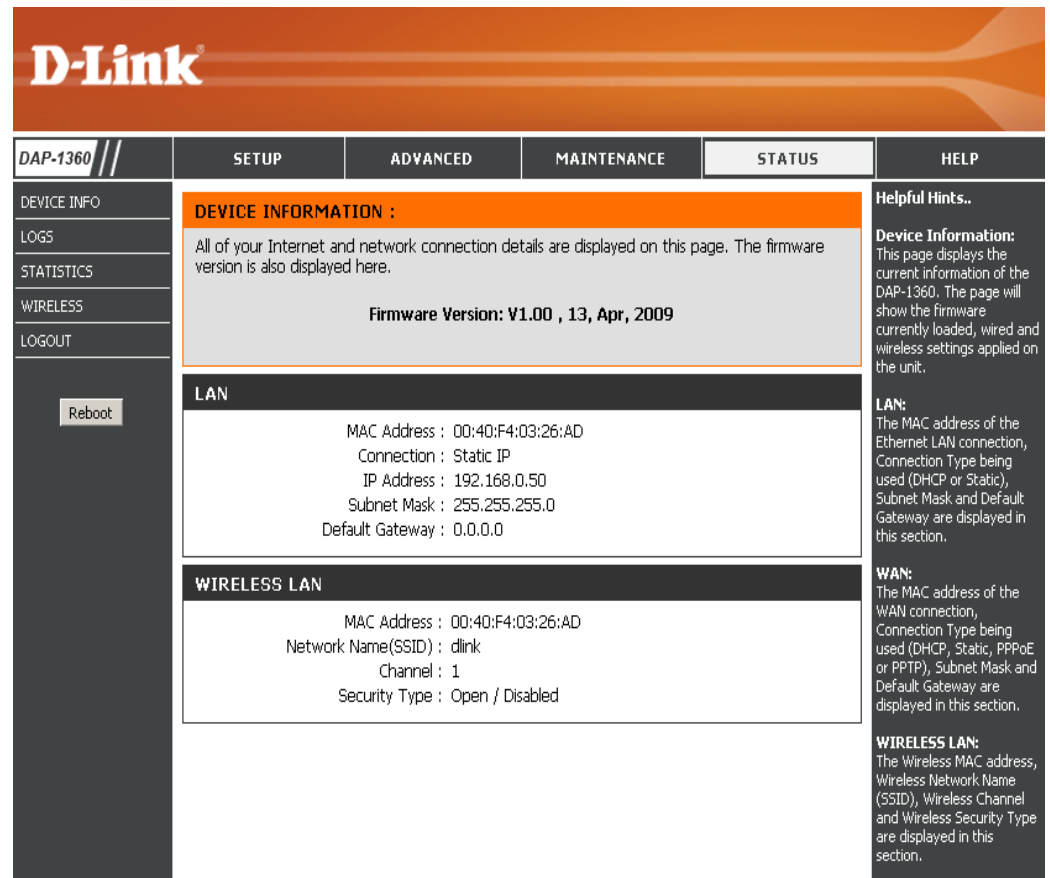
Device Info

This page displays the current information for the DAP-1360. 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.



The screenshot shows the D-Link DAP-1360 web interface. The top navigation bar includes links for SETUP, ADVANCED, MAINTENANCE, STATUS (selected), and HELP. The left sidebar contains links for DEVICE INFO, LOGS, STATISTICS, WIRELESS, and LOGOUT, along with a Reboot button. The main content area is divided into three sections: DEVICE INFORMATION, LAN, and WIRELESS LAN. The DEVICE INFORMATION section shows the firmware version as V1.00, dated 13 Apr, 2009. The LAN section displays the MAC address as 00:40:F4:03:26:AD, connection type as Static IP, IP address as 192.168.0.50, subnet mask as 255.255.255.0, and default gateway as 0.0.0.0. The WIRELESS LAN section displays the MAC address as 00:40:F4:03:26:AD, network name (SSID) as dlink, channel as 1, and security type as Open / Disabled. A Helpful Hints section on the right provides additional information about the device information, LAN, WAN, and wireless LAN sections.

DEVICE INFO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
<p>DEVICE INFORMATION :</p> <p>All of your Internet and network connection details are displayed on this page. The firmware version is also displayed here.</p> <p>Firmware Version: V1.00 , 13, Apr, 2009</p>					
<p>LAN</p> <p>MAC Address : 00:40:F4:03:26:AD Connection : Static IP IP Address : 192.168.0.50 Subnet Mask : 255.255.255.0 Default Gateway : 0.0.0.0</p>					
<p>WIRELESS LAN</p> <p>MAC Address : 00:40:F4:03:26:AD Network Name(SSID) : dlink Channel : 1 Security Type : Open / Disabled</p>					

Helpful Hints..

Device Information:
This page displays the current information of the DAP-1360. The page will show the firmware currently loaded, wired and wireless settings applied on the unit.

LAN:
The MAC address of the Ethernet LAN connection, Connection Type being used (DHCP or Static), Subnet Mask and Default Gateway are displayed in this section.

WAN:
The MAC address of the WAN connection, Connection Type being used (DHCP, Static, PPPoE or PPTP), Subnet Mask and Default Gateway are displayed in this section.

WIRELESS LAN:
The Wireless MAC address, Wireless Network Name (SSID), Wireless Channel and Wireless Security Type are displayed in this section.

Logs

The DAP-1360 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 Setting.

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.

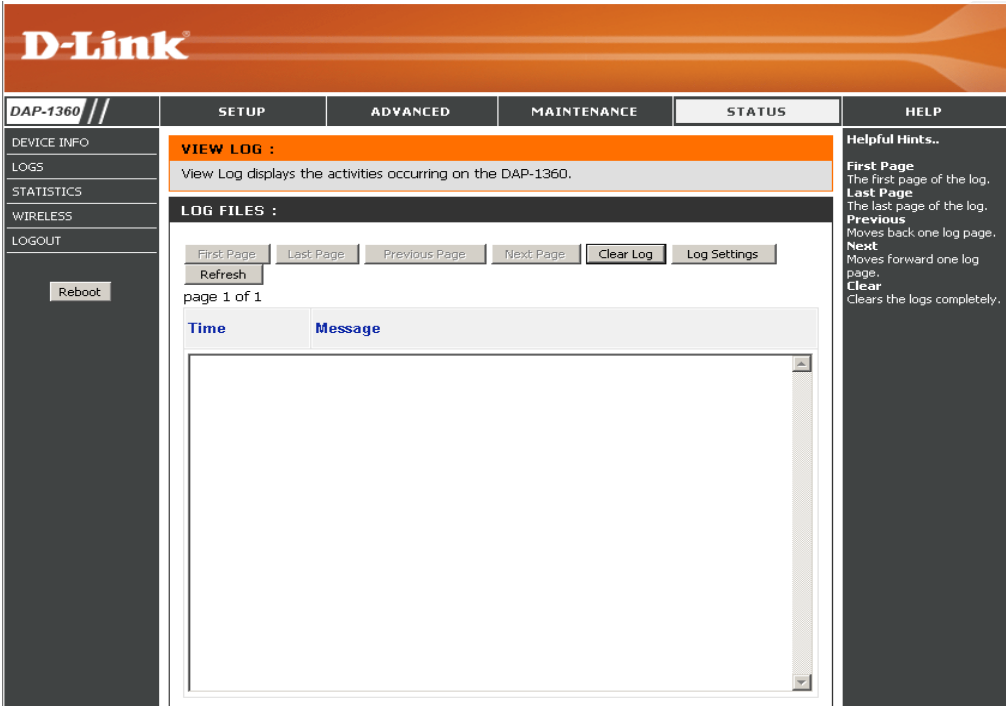
Previous Page: This button directs you to the previous page of the log.

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

Clear Log: 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.



Statistics

The DAP-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.

The screenshot shows the D-Link DAP-1360 web interface. The top navigation bar includes links for DAP-1360, SETUP, ADVANCED, MAINTENANCE, STATUS (selected), and HELP. The left sidebar contains links for DEVICE INFO, LOGS, STATISTICS (selected), WIRELESS, and LOGOUT, along with a Reboot button. The main content area displays the TRAFFIC STATISTICS section, which includes a description, a Refresh button, and a table of packet counts for LAN and WIRELESS traffic.

	Receive	Transmit
LAN	555 Packets	886 Packets
WIRELESS	23171 Packets	1562 Packets

Helpful Hints..
Stats:
Displays data packet statistics of both transmitted frame and received frame for the DAP-1360 network.

Wireless

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

Connection Time: Displays the amount of time the wireless client has been connected to the access point.

MAC Address: The Ethernet ID (MAC address) of the wireless client.

D-Link

DAP-1360

DEVICE INFO

LOGS

STATISTICS

WIRELESS

LOGOUT

Reboot

SETUP

ADVANCED

MAINTENANCE

STATUS

HELP

CONNECTED WIRELESS CLIENT LIST :

The Wireless Client table below displays Wireless clients connected to the AP (Access Point). In AP Client mode it displays the connected AP's MAC address and connected Time.

CONNECTED WIRELESS CLIENT LIST :

Connected Time	MAC Address
11 sec	00:1C:B3:4D:DB:4C

Helpful Hints..

Wireless
Displays connected client station main parameters, such as Connect Time and station MAC address. In AP Client mode it displays the connected AP's MAC address and connected Time.

Help

D-Link

DAP-1360

MENU

SETUP

ADVANCED

MAINTENANCE

STATUS

HELP

HELP MENU

Setup

- Wizard
- Wireless Setup
- WAN Setup
- LAN Setup

Advanced

- Port Forwarding
- Port Filter
- Access Control
- DMZ
- Parental Control
- Advanced Wireless
- Advanced Network

Maintenance

- Device Administration
- Save and Restore
- Firmware Update
- WatchDog

Status

- Device Info
- Log
- Statistics
- Wireless

Helpful Hints..

Click on the links for more informations of each section in the GUI.

Wireless Security

This section will show you the different levels of security you can use to protect your data from intruders. The DAP-1360 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, or 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.

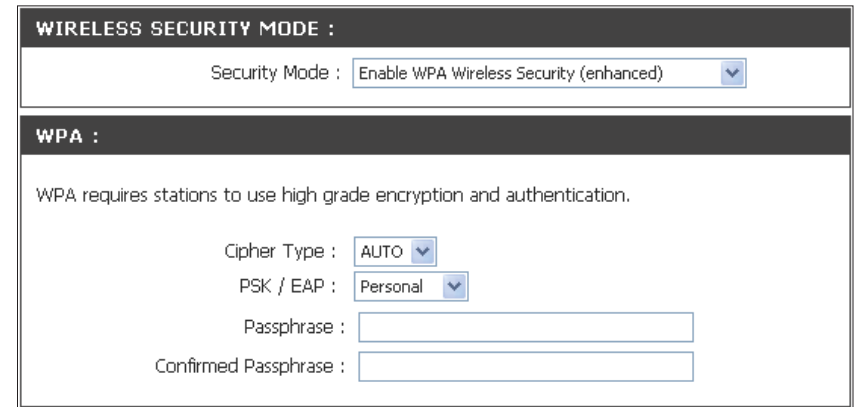
WPA-PSK/WPA2-PSK uses a passphrase or key to authenticate your wireless connection. The key is an alpha-numeric password between 8 and 63 characters long. The password can include symbols (!?*&_) and spaces. This key must be the exact same key entered on your wireless bridge or access point.

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 WPA/WPA2 Personal

It is recommended to enable encryption on your wireless access point 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 access point (192.168.0.50). Click on Setup and then click Wireless Settings on the left side.
2. Next to *Security Mode*, select **Enable WPA Wireless Security**, **Enable WPA2 Wireless Security**, or **Enable WPA2-Auto Wireless Security**.
3. Next to *Cipher Type*, select **TKIP**, **AES**, or **Auto**.
4. Next to *PSK / EAP*, select **Personal**.
5. Next to *Passphrase*, enter a key. The key is entered as a passphrase in ASCII format at both ends of the wireless connection. The passphrase must be between 8-63 characters.
6. Click **Save Settings** at the top of the window to save your settings. If you are configuring the access point 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 access point.



WIRELESS SECURITY MODE :

Security Mode : Enable WPA Wireless Security (enhanced) ▼

WPA :

WPA requires stations to use high grade encryption and authentication.

Cipher Type : AUTO ▼

PSK / EAP : Personal ▼

Passphrase :

Confirmed Passphrase :

Configure WPA/WPA2 Enterprise

It is recommended to enable encryption on your wireless access point 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 access point (192.168.0.50). Click on **Setup** and then click **Wireless Settings** on the left side.
2. Next to *Security Mode*, select **Enable WPA Wireless Security, Enable WPA2 Wireless Security**, or **Enable WPA2-Auto Wireless Security**.
3. Next to *Cipher Mode*, select **TKIP**, **AES**, or **Auto**.
4. Next to *Personal / Enterprise*, select **Enterprise**.
5. Next to *RADIUS Server*, enter the IP Address of your RADIUS server.
6. Next to *Port*, enter the port you are using with your RADIUS server. 1812 is the default port.
7. Next to *Shared Secret*, enter the security key.
8. Click **Save Settings** to save your settings.

The screenshot displays the 'WIRELESS SECURITY MODE' configuration interface. At the top, 'Security Mode' is set to 'Enable WPA Wireless Security (enhanced)'. Below this, the 'WPA' section is active, showing a message: 'WPA requires stations to use high grade encryption and authentication.' The 'Cipher Type' is set to 'AUTO' and 'PSK / EAP' is set to 'Enterprise'. Under the '802.1X' section, there are two RADIUS server configurations. 'RADIUS Server 1' has fields for IP, Port (1812), and Shared Secret. 'RADIUS Server 2' also has fields for IP, Port (1812), and Shared Secret.

WIRELESS SECURITY MODE :		
Security Mode : Enable WPA Wireless Security (enhanced)		
WPA :		
WPA requires stations to use high grade encryption and authentication.		
Cipher Type : AUTO		
PSK / EAP : Enterprise		
802.1X		
RADIUS Server 1 :	IP	<input type="text"/>
	Port	1812
	Shared Secret	<input type="text"/>
RADIUS Server 2 :	IP	<input type="text"/>
	Port	1812
	Shared Secret	<input type="text"/>

Connect to a Wireless Network

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.

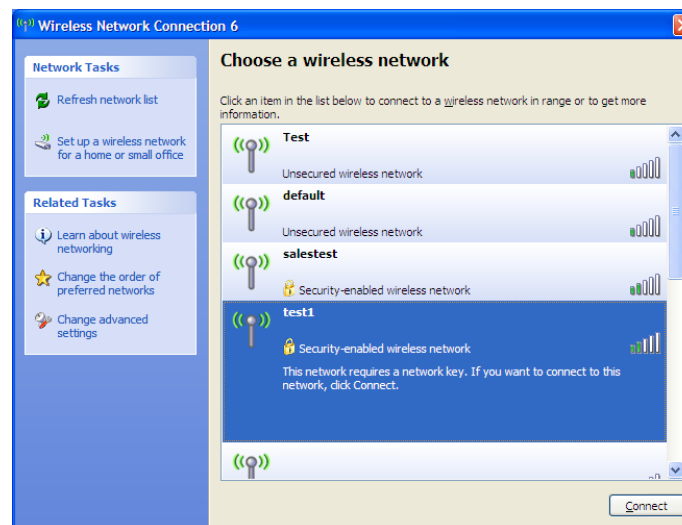
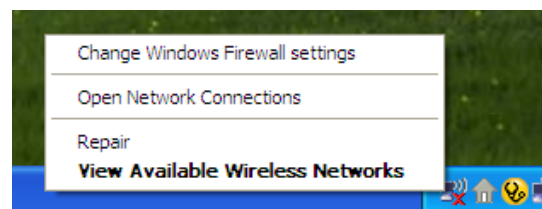
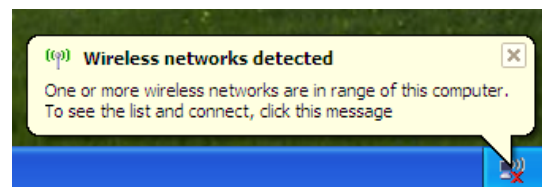
If you receive the **Wireless Networks Detected** bubble, click on the center of the bubble to access the utility.

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.

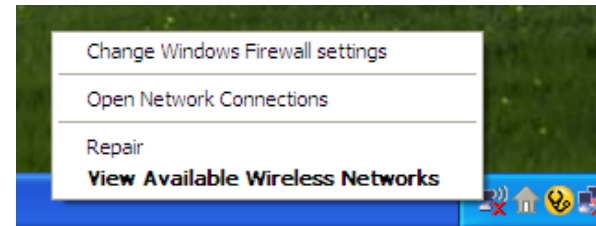
If you get a good signal, but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the **Networking Basics** section in this manual for more information.



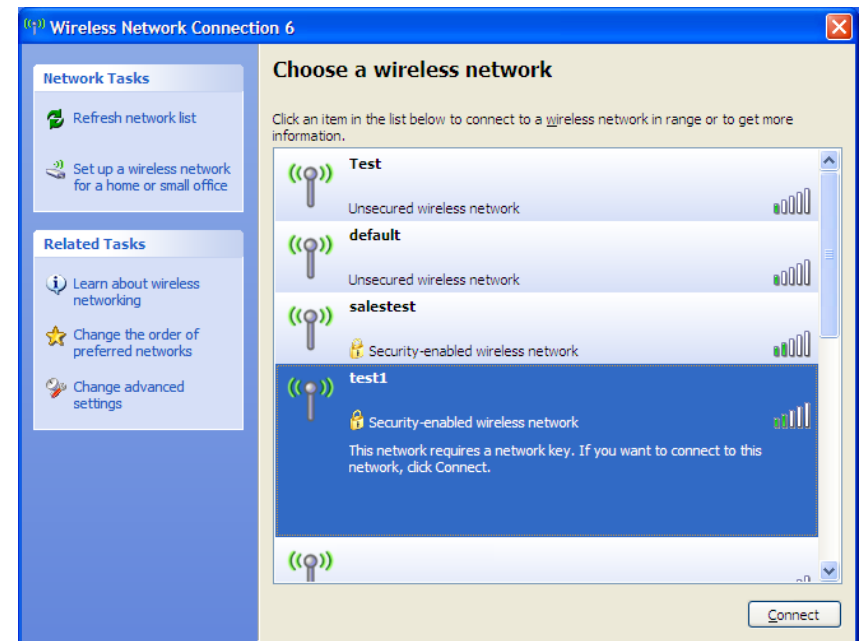
Configure WPA-PSK

It is recommended to enable WEP on your wireless bridge or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the WEP key being used.

1. Open the Windows® XP Wireless Utility by right-clicking on the wireless computer icon in your system tray (lower-right corner of screen). Select **View Available Wireless Networks**.

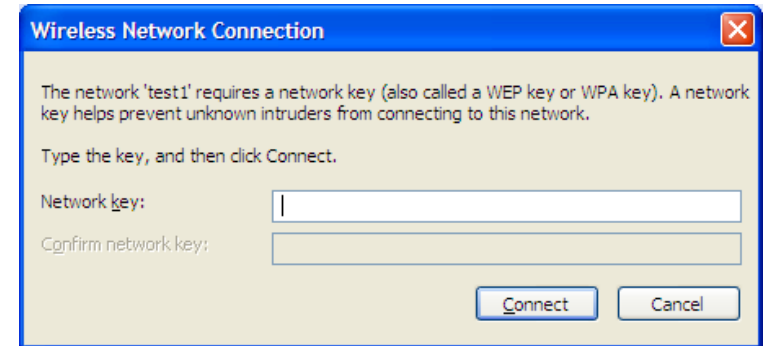


2. Highlight the wireless network (SSID) you would like to connect to and click **Connect**.



3. The **Wireless Network Connection** box will appear. Enter the WPA-PSK passphrase and click **Connect**.

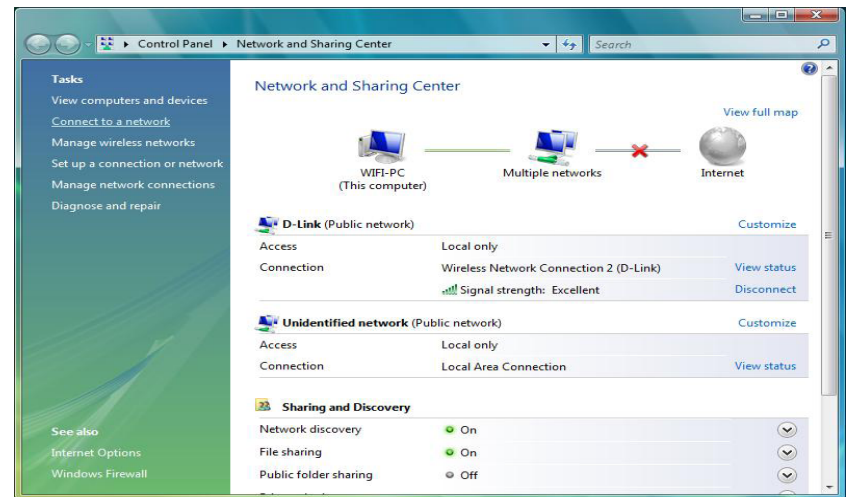
It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the WPA-PSK settings are correct. The WPA-PSK passphrase must be exactly the same as on the wireless access point.



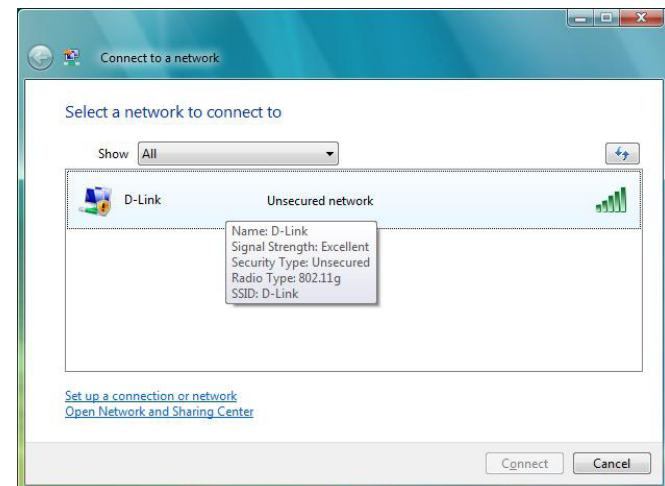
Using Windows Vista®

Windows Vista® users may use the convenient, built-in wireless utility. Follow these instructions:

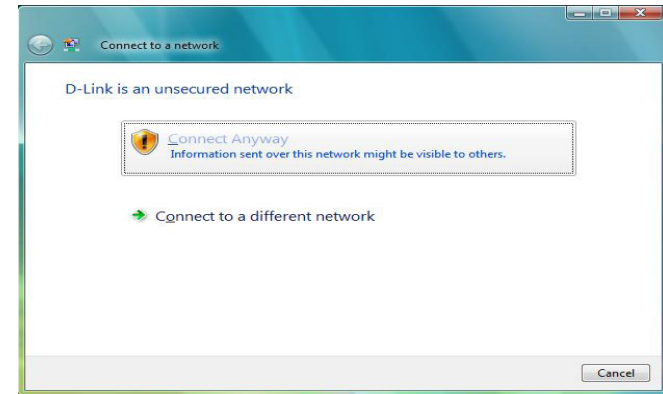
From the Start menu, go to Control Panel, and then click on **Network and Sharing Center**.



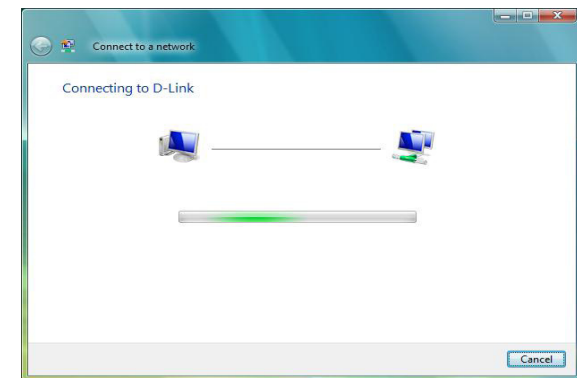
The utility will display any available wireless networks in your area. Click on a network (displayed using the SSID) under Select a network to connect to and then click the **Connect** button.



Click **Connect Anyway** to continue.

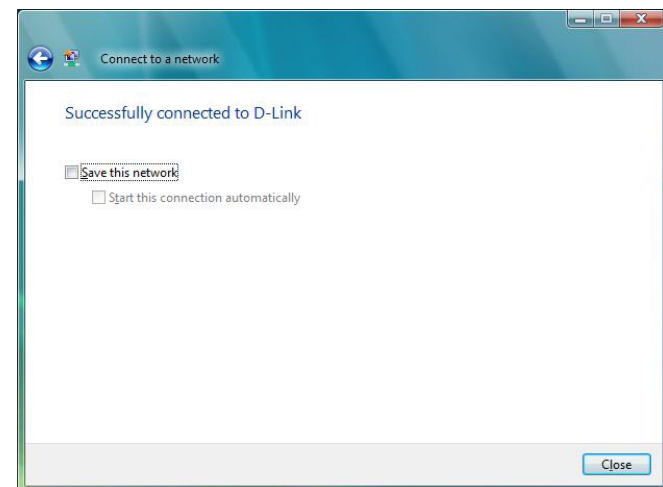


The utility will display the following window to indicate a connection is being made.



The final window indicates the establishment of a successful connection.

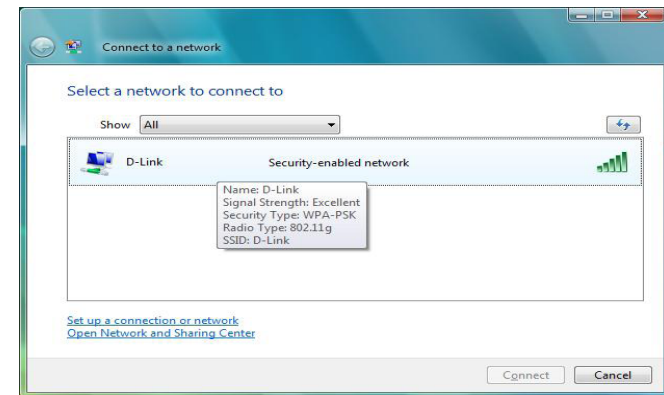
The next two pages display the windows used to connect to either a WEP or a WPA-PSK wireless network.



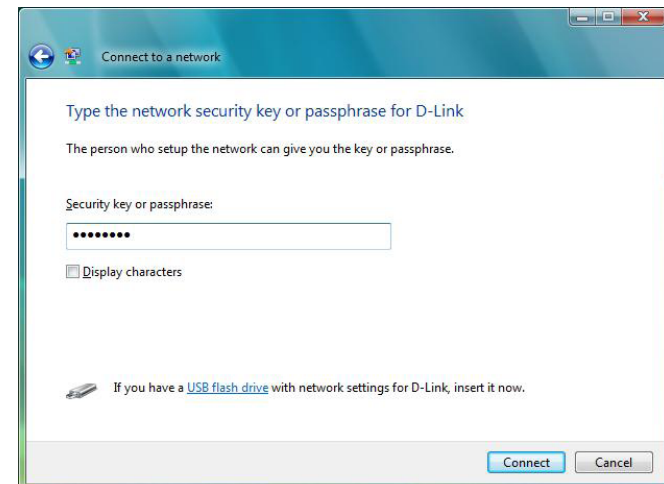
Configure WPA-PSK

It is recommended to enable WEP on your wireless bridge or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the WEP key being used.

Click on a network (displayed using the SSID) using WPA-PSK under Select a network to connect to and then click the **Connect** button.



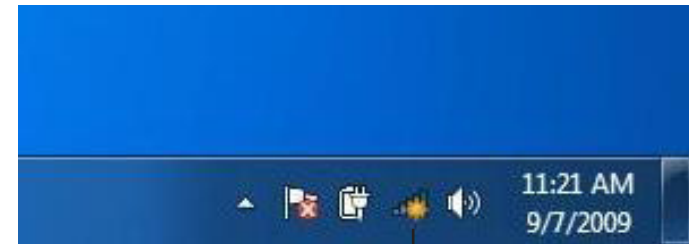
Enter the appropriate security key or passphrase in the field provided and then click the **Connect** button.



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.

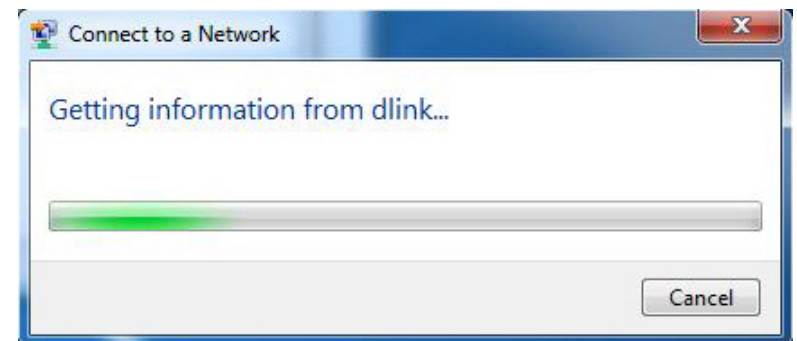


3. Highlight the wireless network (SSID) you would like to connect to and click the **Connect** button.

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.

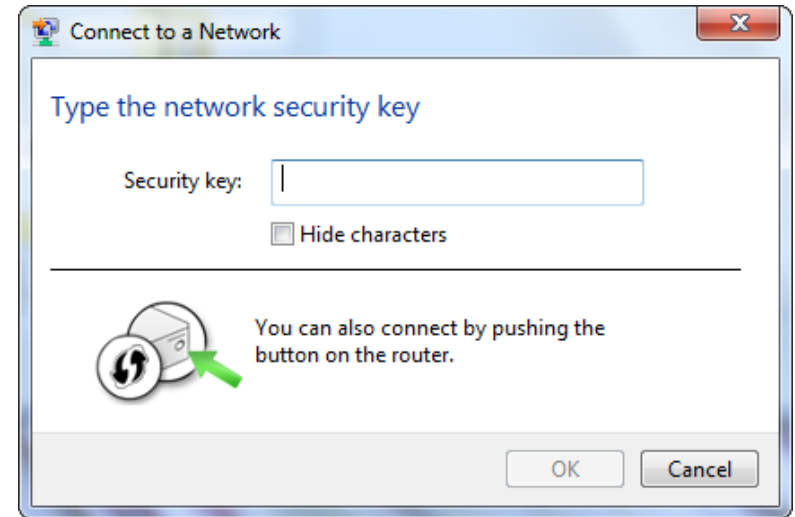


4. The following window appears while your computer tries to connect to the router.



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.

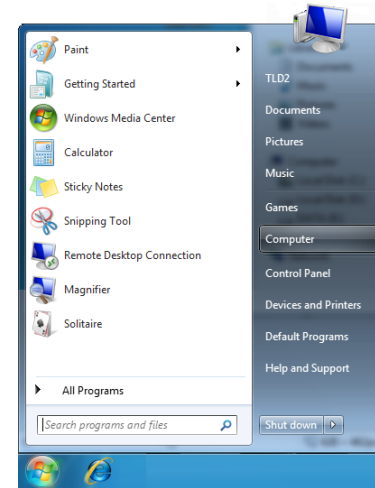
It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as on the wireless router.



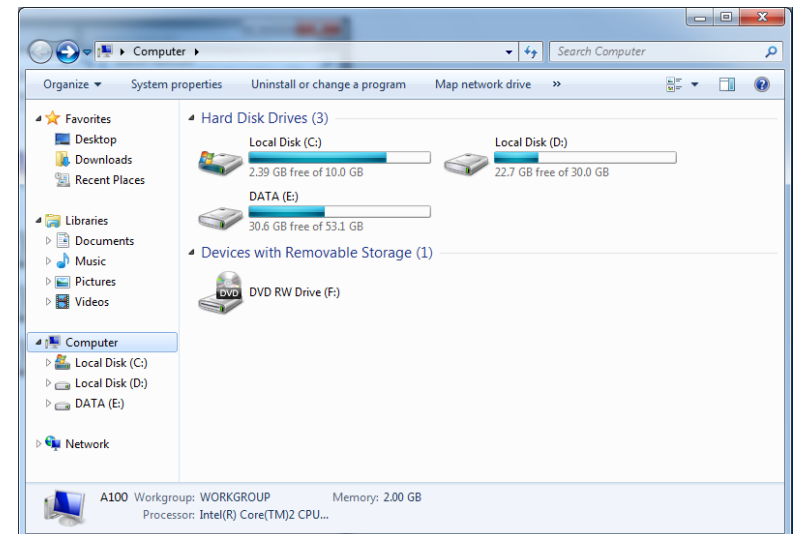
Configure WPS

The WPS feature of the DAP-1360 can be configured using Windows® 7. Carry out the following steps to use Windows® 7 to configure the WPS feature of the DAP-1360:

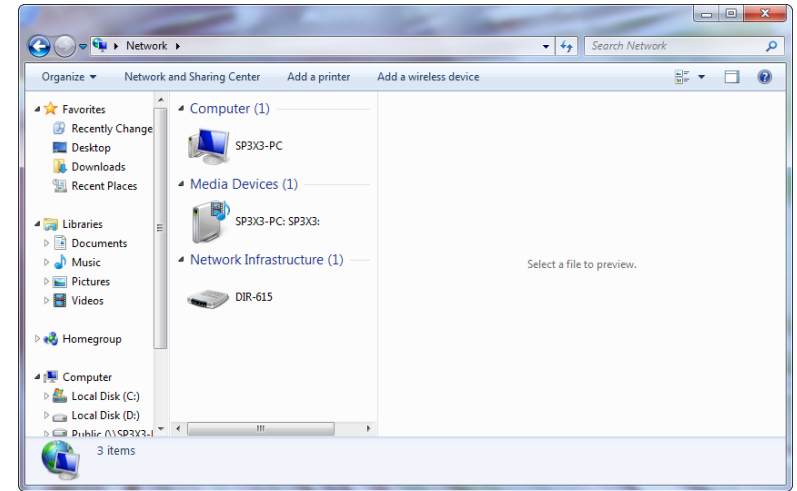
1. Click the **Start** button and select **Computer** from the Start menu.



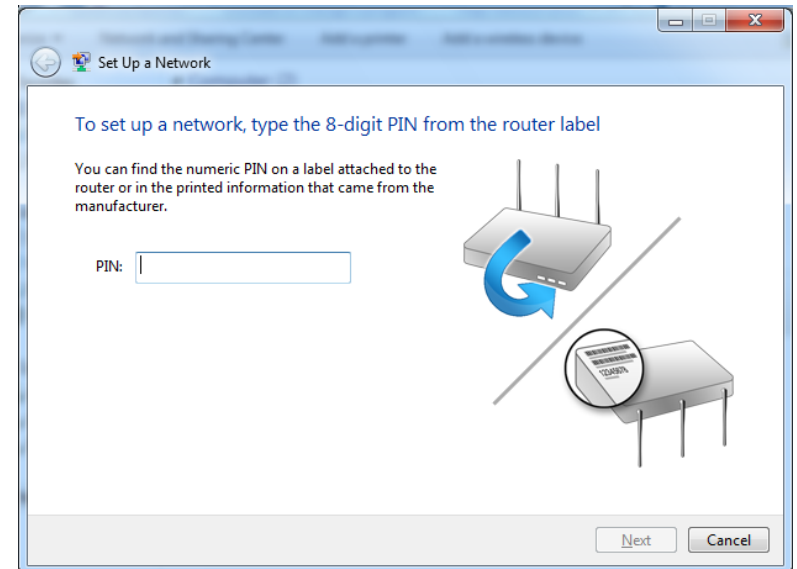
2. Click the **Network** option.



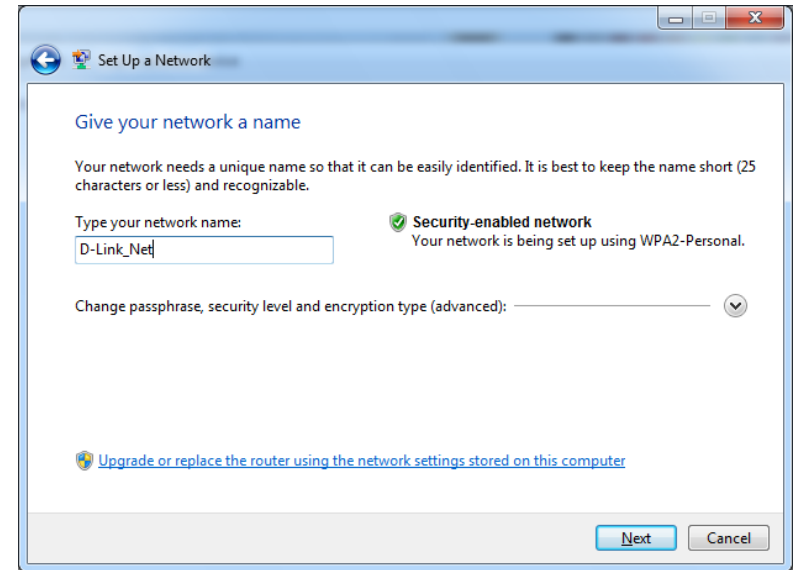
3. Double-click the DAP-1360.



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**.

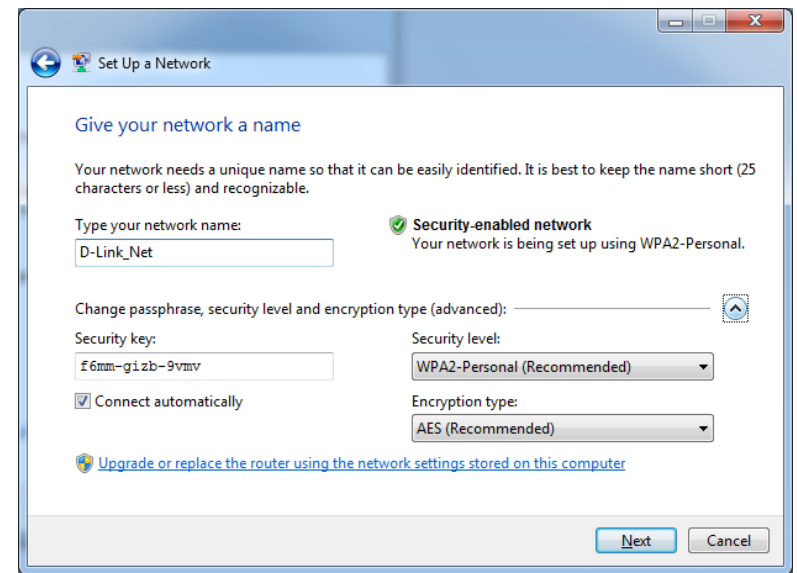


5. Type a name to identify the network.



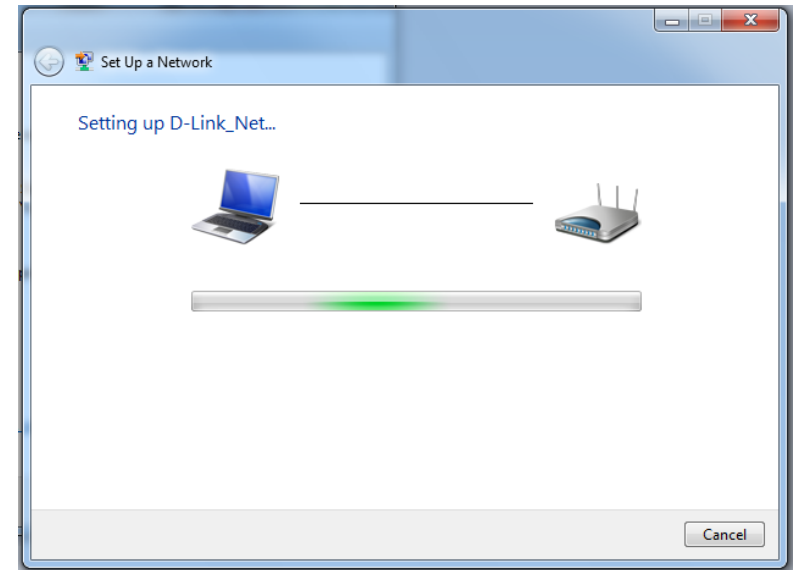
6. To configure advanced settings, click the  icon.

Click **Next** to continue.



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

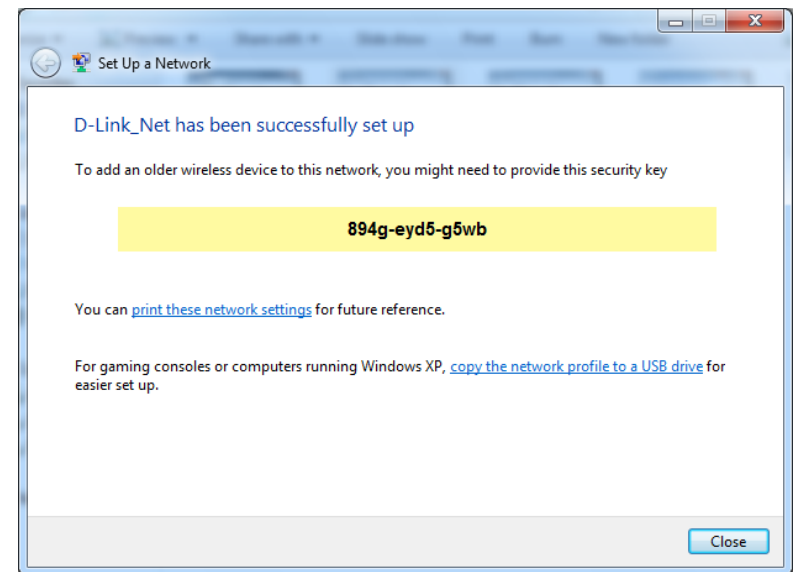
Wait for the configuration to complete.



8. The following window informs you that WPS on the DAP-1360 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.



Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DAP-1360. Read the following descriptions if you are having problems. (The examples below are illustrated in Windows® XP. If you have a different operating system, the screenshots on your computer will look similar to the following examples.)

1. Why can't I access the web-based configuration utility?

When entering the IP address of the D-Link access point (192.168.0.50 for example), you are not connecting to a website on the Internet or have to be connected to the Internet. The device has the utility built-in to a ROM chip in the device itself. Your computer must be on the same IP subnet to connect to the web-based utility.

- Make sure you have an updated Java-enabled web browser. We recommend the following:
 - Microsoft Internet Explorer® 6.0 and higher
 - Mozilla Firefox 3.0 and higher
 - Google™ Chrome 2.0 and higher
 - Apple Safari 3.0 and higher
- Verify physical connectivity by checking for solid link lights on the device. If you do not get a solid link light, try using a different cable or connect to a different port on the device if possible. If the computer is turned off, the link light may not be on.
- Disable any internet security software running on the computer. Software firewalls such as Zone Alarm, Black Ice, Sygate, Norton Personal Firewall, and Windows® XP firewall may block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it.

- Configure your Internet settings:
 - Go to **Start > Settings > Control Panel**. Double-click the **Internet Options** icon. From the Security tab, click the button to restore the settings to their defaults.
 - Click the Connection tab and set the dial-up option to Never Dial a Connection. Click the LAN Settings button. Make sure nothing is checked. Click OK.
 - Go to the Advanced tab and click the button to restore these settings to their defaults. Click OK three times.
 - Close your web browser (if open) and open it.
- Access the web management. Open your web browser and enter the IP address of your D-Link access point in the address bar. This should open the login page for your the web management.
- If you still cannot access the configuration, unplug the power to the access point for 10 seconds and plug back in. Wait about 30 seconds and try accessing the configuration. If you have multiple computers, try connecting using a different computer.

2. What can I do if I forgot my password?

If you forgot your password, you must reset your access point. Unfortunately this process will change all your settings back to the factory defaults.

To reset the access point, locate the reset button (hole) on the rear panel of the unit. With the access point powered on, use a paperclip to hold the button down for 10 seconds. Release the button and the access point will go through its reboot process. Wait about 30 seconds to access the access point. The default IP address is 192.168.0.50. When logging in, the username is admin and leave the password box empty.

3. Why can't I connect to certain sites or send and receive emails when connecting through my access point?

If you are having a problem sending or receiving email, or connecting to secure sites such as eBay, banking sites, and Hotmail, we suggest lowering the MTU in increments of ten (Ex. 1492, 1482, 1472, etc).

Note: AOL DSL+ users must use MTU of 1400.

To find the proper MTU Size, you'll have to do a special ping of the destination you're trying to go to. A destination could be another computer, or a URL.

- Click on **Start** and then click **Run**.
- Windows® 95, 98, and Me users type in command (Windows® NT, 2000, and XP users type in cmd) and press **Enter** (or click **OK**).
- Once the window opens, you'll need to do a special ping. Use the following syntax:

ping [url] [-f] [-l] [MTU value]

Example: **ping yahoo.com -f -l 1472**

```
C:\>ping yahoo.com -f -l 1482
Pinging yahoo.com [66.94.234.13] with 1482 bytes of data:
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.
Packet needs to be fragmented but DF set.

Ping statistics for 66.94.234.13:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping yahoo.com -f -l 1472
Pinging yahoo.com [66.94.234.13] with 1472 bytes of data:
Reply from 66.94.234.13: bytes=1472 time=93ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=109ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=125ms TTL=52
Reply from 66.94.234.13: bytes=1472 time=203ms TTL=52

Ping statistics for 66.94.234.13:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 93ms, Maximum = 203ms, Average = 132ms

C:\>
```

You should start at 1472 and work your way down by 10 each time. Once you get a reply, go up by 2 until you get a fragmented packet. Take that value and add 28 to the value to account for the various TCP/IP headers. For example, let's say that 1452 was the proper value, the actual MTU size would be 1480, which is the optimum for the network we're working with ($1452+28=1480$).

Once you find your MTU, you can now configure your access point with the proper MTU size.

To change the MTU rate on your access point follow the steps below:

- Open your browser, enter the IP address of your access point (192.168.0.50) and click **OK**.
- Enter your username (admin) and password (blank by default). Click **OK** to enter the web configuration page for the device.
- Click on **Setup** and then click **Manual Configure**.
- To change the MTU enter the number in the MTU field and click **Save Settings** to save your settings.
- Test your email. If changing the MTU does not resolve the problem, continue changing the MTU in increments of ten.

Wireless Basics

D-Link wireless products are based on industry standards to provide easy-to-use and compatible high-speed wireless connectivity within your home, business or public access wireless networks. Strictly adhering to the IEEE standard, the D-Link wireless family of products will allow you to securely access the data you want, when and where you want it. You will be able to enjoy the freedom that wireless networking delivers.

A wireless local area network (WLAN) is a cellular computer network that transmits and receives data with radio signals instead of wires. Wireless LANs are used increasingly in both home and office environments, and public areas such as airports, coffee shops and universities. Innovative ways to utilize WLAN technology are helping people to work and communicate more efficiently. Increased mobility and the absence of cabling and other fixed infrastructure have proven to be beneficial for many users.

Wireless users can use the same applications they use on a wired network. Wireless adapter cards used on laptop and desktop systems support the same protocols as Ethernet adapter cards.

Under many circumstances, it may be desirable for mobile network devices to link to a conventional Ethernet LAN in order to use servers, printers or an Internet connection supplied through the wired LAN. A Wireless Access point is a device used to provide this link.

What is Wireless?

Wireless or Wi-Fi technology is another way of connecting your computer to the network without using wires. Wi-Fi uses radio frequency to connect wirelessly, so you have the freedom to connect computers anywhere in your home or office.

D-Link is the worldwide leader and award winning designer, developer, and manufacturer of networking products. D-Link delivers the performance you need at a price you can afford. D-Link has all the products you need to build your network.

How does wireless work?

Wireless works similar to how cordless phone work, through radio signals to transmit data from one point A to point B. But wireless technology has restrictions as to how you can access the network. You must be within the wireless network range area to be able to connect your computer. There are two different types of wireless networks Wireless Local Area Network (WLAN), and Wireless Personal Area Network (WPAN).

Wireless Local Area Network (WLAN)

In a wireless local area network, a device called an Access Point (AP) connects computers to the network. The access point has a small antenna attached to it, which allows it to transmit data back and forth over radio signals. With an indoor access point as seen in the picture, the signal can travel up to 300 feet. With an outdoor access point the signal can reach out up to 30 miles to serve places like manufacturing plants, industrial locations, college and high school campuses, airports, golf courses, and many other outdoor venues.

Wireless Personal Area Network (WPAN)

Bluetooth is the industry standard wireless technology used for WPAN. Bluetooth devices in WPAN operate in a range up to 30 feet away.

Compared to WLAN the speed and wireless operation range are both less than WLAN, but in return it doesn't use nearly as much power which makes it ideal for personal devices, such as mobile phones, PDAs, headphones, laptops, speakers, and other devices that operate on batteries.

Who uses wireless?

Wireless technology has become so popular in recent years that almost everyone is using it, whether it's for home, office, business, D-Link has a wireless solution for it.

Home

- Gives everyone at home broadband access
- Surf the web, check email, instant message, etc.
- Gets rid of the cables around the house
- Simple and easy to use

Small Office and Home Office

- Stay on top of everything at home as you would at office
- Remotely access your office network from home
- Share Internet connection and printer with multiple computers
- No need to dedicate office space

Where is wireless used?

Wireless technology is expanding everywhere not just at home or office. People like the freedom of mobility and it's becoming so popular that more and more public facilities now provide wireless access to attract people. The wireless connection in public places is usually called "hotspots".

Using a D-Link Cardbus Adapter with your laptop, you can access the hotspot to connect to Internet from remote locations like: Airports, Hotels, Coffee Shops, Libraries, Restaurants, and Convention Centers.

Wireless network is easy to setup, but if you're installing it for the first time it could be quite a task not knowing where to start. That's why we've put together a few setup steps and tips to help you through the process of setting up a wireless network.

Tips

Here are a few things to keep in mind, when you install a wireless network.

Centralize your access point or Access Point

Make sure you place the bridge/access point in a centralized location within your network for the best performance. Try to place the bridge/access point as high as possible in the room, so the signal gets dispersed throughout your home. If you have a two-story home, you may need a repeater to boost the signal to extend the range.

Eliminate Interference

Place home appliances such as cordless telephones, microwaves, wireless speakers, and televisions as far away as possible from the bridge/access point. This would significantly reduce any interference that the appliances might cause since they operate on same frequency.

Security

Don't let your next-door neighbors or intruders connect to your wireless network. Secure your wireless network by turning on the WPA or WEP security feature on the access point. Refer to product manual for detail information on how to set it up.

Wireless Modes

There are basically two modes of networking:

- **Infrastructure** – All wireless clients will connect to an access point or wireless bridge.
- **Ad-Hoc** – Directly connecting to another computer, for peer-to-peer communication, using wireless network adapters on each computer, such as two or more wireless network Cardbus adapters.

An Infrastructure network contains an Access Point or wireless bridge. All the wireless devices, or clients, will connect to the wireless bridge or access point.

An Ad-Hoc network contains only clients, such as laptops with wireless cardbus adapters. All the adapters must be in Ad-Hoc mode to communicate.

Networking Basics

Check your IP address

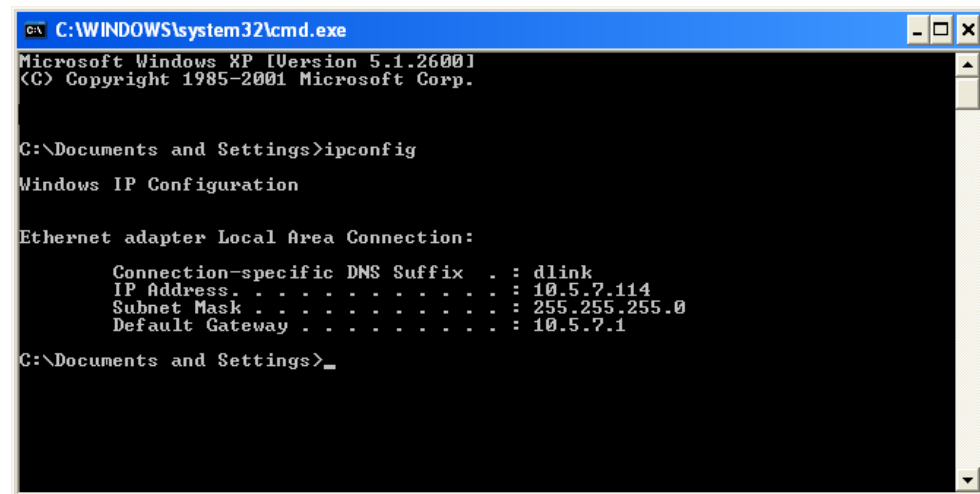
After you install your adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

Click on Start > Run. In the run box type **cmd** and click **OK**. (Windows® 7/Vista® users type cmd in the Start Search box.)

At the prompt, type **ipconfig** and press **Enter**.

This will display the IP address, subnet mask, and the default gateway of your adapter.

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your router. Some firewall software programs may block a DHCP request on newly installed adapters.



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600.1
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : dlink
    IP Address . . . . . : 10.5.7.114
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 10.5.7.1

C:\Documents and Settings>
```

Statically Assign an IP address

If you are not using a DHCP capable gateway/router, or you need to assign a static IP address, please follow the steps below:

Step 1

Windows® 7 - Click on **Start > Control Panel > Network and Internet > Network and Sharing Center > Change Adapter Setting.**

Windows Vista® - Click on **Start > Control Panel > Network and Internet > Network and Sharing Center > Manage Network Connections.**

Windows® XP - Click on **Start > Control Panel > Network Connections.**

Windows® 2000 - From the desktop, right-click **My Network Places > Properties.**

Step 2

Right-click on the **Local Area Connection** which represents your network adapter and select **Properties.**

Step 3

Highlight **Internet Protocol (TCP/IP)** and click **Properties.**

Step 4

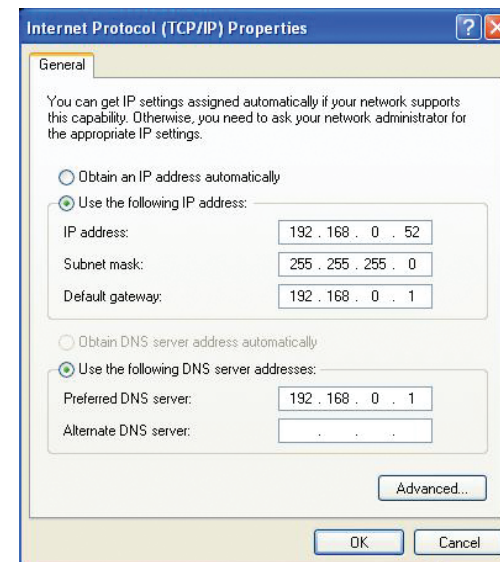
Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

Example: If the router's LAN IP address is 192.168.0.1, make your IP address 192.168.0.X where X is a number between 2 and 99. Make sure that the number you choose is not in use on the network. Set Default Gateway the same as the LAN IP address of your router (192.168.0.1).

Set Primary DNS the same as the LAN IP address of your router (192.168.0.1). The Secondary DNS is not needed or you may enter a DNS server from your ISP.

Step 5

Click **OK** twice to save your settings.



Technical Specifications

Standards

- IEEE 802.11n
- IEEE 802.11g
- IEEE 802.11b
- IEEE 802.3
- IEEE 802.3u

Security

- WPA-Personal
- WPA2-Personal
- WPA-Enterprise
- WPA2-Enterprise

Wireless Signal Rates¹

- | | |
|-----------|-----------|
| • 300Mbps | • 108Mbps |
| • 54Mbps | • 48Mbps |
| • 36Mbps | • 24Mbps |
| • 18Mbps | • 12Mbps |
| • 11Mbps | • 9Mbps |
| • 6Mbps | • 5.5Mbps |
| • 2Mbps | • 1Mbps |

Maximum Operating Voltage

- 3.3V

Maximum Operating Current

- 1435 mA

Modulation

- DQPSK
- DBPSK
- CCK
- OFDM

Frequency Range²

- 2.4GHz to 2.483GHz

LEDs

- | | |
|---------|----------|
| • Power | • Bridge |
| • AP | • LAN |

Operating Temperature

- 32°F to 131°F (0°C to 55°C)

Humidity

- 90% maximum (non-condensing)

Safety & Emissions

- | | |
|-------|----------|
| • FCC | • CE |
| • IC | • C-Tick |
| • CSA | |

Dimensions

- 144 (W) x 109 (D) x 30 (H) mm (5.67 x 4.29 x 1.18 inches)

¹Maximum wireless signal rate derived from IEEE Standard 802.11g and 802.11n specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental conditions will adversely affect wireless signal range.

²Range varies depending on country's regulation.

Contacting Technical Support

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

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

- Model number of the product (e.g. DAP-1360)
- Hardware Revision (located on the label on the bottom of the access point (e.g. rev B1))
- Serial Number (s/n number located on the label on the bottom of the access point).

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

For customers within the United States:

Phone Support:

(877) 453-5465

Internet Support:

<http://support.dlink.com>

For customers within Canada:

Phone Support:

(800) 361-5265

Internet Support:

<http://support.dlink.ca>

Warranty

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

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

Limited Warranty:

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

- Hardware (excluding power supplies and fans): One (1) year
- Power supplies and fans: One (1) year
- Spare parts and spare kits: Ninety (90) days

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

Limited Software Warranty:

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

Non-Applicability of Warranty:

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

Submitting A Claim:

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

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

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

What Is Not Covered:

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

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

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

Disclaimer of Other Warranties:

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

IF ANY IMPLIED WARRANTY CANNOT BE DISCLAIMED IN ANY TERRITORY WHERE A PRODUCT IS SOLD, THE DURATION OF SUCH IMPLIED WARRANTY SHALL BE LIMITED TO THE DURATION OF THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. EXCEPT AS EXPRESSLY COVERED UNDER THE LIMITED WARRANTY PROVIDED HEREIN, THE ENTIRE RISK AS TO THE QUALITY, SELECTION AND PERFORMANCE OF THE PRODUCT IS WITH THE PURCHASER OF THE PRODUCT.

Limitation of Liability:

TO THE MAXIMUM EXTENT PERMITTED BY LAW, D-LINK IS NOT LIABLE UNDER ANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER LEGAL OR EQUITABLE THEORY FOR ANY LOSS OF USE OF THE PRODUCT, INCONVENIENCE OR DAMAGES OF ANY CHARACTER, WHETHER DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF GOODWILL, LOSS OF REVENUE OR PROFIT, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, FAILURE OF OTHER EQUIPMENT OR COMPUTER PROGRAMS TO WHICH D-LINK'S PRODUCT IS CONNECTED WITH, LOSS OF INFORMATION OR DATA CONTAINED IN, STORED ON, OR INTEGRATED WITH ANY PRODUCT RETURNED TO D-LINK FOR WARRANTY SERVICE) RESULTING FROM THE USE OF THE PRODUCT, RELATING TO WARRANTY SERVICE, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY, EVEN IF D-LINK HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE SOLE REMEDY FOR A BREACH OF THE FOREGOING LIMITED WARRANTY IS REPAIR, REPLACEMENT OR REFUND OF THE DEFECTIVE OR NONCONFORMING PRODUCT. THE MAXIMUM LIABILITY OF D-LINK UNDER THIS WARRANTY IS LIMITED TO THE PURCHASE PRICE OF THE PRODUCT COVERED BY THE WARRANTY. THE FOREGOING EXPRESS WRITTEN WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ANY OTHER WARRANTIES OR REMEDIES, EXPRESS, IMPLIED OR STATUTORY.

Governing Law:

This Limited Warranty shall be governed by the laws of the State of California. Some states do not allow exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the foregoing limitations and exclusions may not apply. This Limited Warranty provides specific legal rights and you may also have other rights which vary from state to state.

Trademarks:

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CE Mark Warning:

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

Federal Communication Commission Interference Statement

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

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IEEE 802.11b or 802.11g operation of this product in the U.S.A. is firmware-limited to channels 1 through 11.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Industry Canada Statement

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions:

- 1) this device may not cause interference and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device

This device has been designed to operate with an antenna having a maximum gain of 2dBi.

Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the EIRP is not more than required for successful communication.

Caution:

The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

Because high power radars are allocated as primary users (meaning they have priority) in 5250-5350 MHz and 5650-5850 MHz, these radars could cause interference and/or damage to license exempt LAN devices.

IMPORTANT NOTE:

IC Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

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

Registration

Register your product online at support.dlink.com/register



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

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