

DWL-3200AP manual

new cover pending



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Package Contents



- **D-Link AirPremier™ DWL-3200AP**
Wireless Access Point with PoE
- Power over Ethernet base unit
- Power Adapter-DC 48V, 0.4A
- Power Cord
- Manual and Warranty on CD
- Quick Installation Guide
- Ethernet Cable

Note: Using a power supply with a different voltage than the one included with the **DWL-3200AP** will cause damage and void the warranty for this product.

If any of the above items are missing, please contact your reseller.

Minimum System Requirements

- Computers with Windows, Macintosh, or Linux-based operating systems with an installed Ethernet Adapter
- Internet Explorer version 6.0 or Netscape Navigator version 7.0 and above

Introduction

At up to fifteen times the speed of previous wireless devices (maximum wireless signal rate of up to 108Mbps* in Super G mode), you can work faster and more efficiently, increasing productivity. With the DWL-3200AP, bandwidth-intensive applications like graphics or multimedia will benefit significantly because large files are able to move across the network quickly.

The DWL-3200AP is capable of operating in one of 3 different modes to meet your wireless networking needs. The DWL-3200AP can operate as an access point, or in access point-to-access point bridging mode, or in access point-to-multipoint bridging mode.

Use less wiring, enjoy increased flexibility, save time and money with PoE (Power over Ethernet). With PoE, the DWL-3200AP shares power and data over the CAT5 cable, making the setup of your network less expensive and more convenient.

An ideal solution for quickly creating and extending a wireless local area network (WLAN) in offices or other workplaces, trade shows and special events, the DWL-3200AP provides data transfers at up to 108Mbps in Super G mode when used with other D-Link *AirPremier* products. (The 802.11g standard is backwards compatible with 802.11b devices.)

WPA is offered in two flavors:

WPA-Personal is directed at home users who do not have the server based equipment required for user authentication. The method of authentication is similar to WEP because you define a "Pre-Shared Key" on the wireless router/AP. Once the pre-shared key is confirmed and satisfied on both the client and access point, then access is granted. the encryption method used is referred to as the Temporal Key Integrity Protocol (TKIP), which offers per-packet dynamic hashing. It also includes an integrity checking feature which ensures that the packets were not tampered with during wireless transmission.

*Maximum wireless signal rate derived from IEEE Standard 802.11g specifications. Actual data throughput will vary. Network conditions and environmental factors lower actual data throughput rate.



WPA-Enterprise is ideal for businesses that have existing security infrastructures in place. Management and security implementation can now be centralized on a server participating on the network. Utilizing 802.1x with a RADIUS (Remote Authentication Dial-in User Service) server, a network administrator can define a list of authorized users who can access the wireless LAN. When attempting to access a wireless LAN with WPA-Enterprise configured, the new client will be challenged with a username and password. If the new client is authorized by the administration, and enters the correct username and password, then access is granted. In a scenario where an employee leaves the company, the network administrator can remove the employee from the authorized list and not have to worry about the network being compromised by a former employee.

802.1x: Authentication which is a first line of defense against intrusion. In the authentication process, the Authentication Server verifies the identity of the client attempting to connect to the network. Unfamiliar clients would be denied access.

Features and Benefits

- **3 Different Operation modes** - Capable of operating in one of three different operation modes to meet your wireless networking requirements: Access Point; AP-to-AP Bridging; or AP-to-Multipoint Bridging.
- **Easy Installation with PoE (Power over Ethernet).**
- **Faster wireless networking** with the 802.11g standard to provide a maximum wireless signal rate of up to 54Mbps* (maximum wireless signal rate of up to 108Mbps* in Super G mode).
- **Compatible with the 802.11b standard** to provide a wireless data rate of up to 11Mbps - that means you can migrate your system to the 802.11g standard on your own schedule without sacrificing connectivity.
- **Better security with WPA** - The DWL-3200AP can securely connect wireless clients on the network using WPA (Wi-Fi Protected Access) providing a much higher level of security for your data and communications than has previously been available.
- **AP Manager Setup Wizard** - The new Setup Wizard makes network configuration quick and simple.
- **SNMP for Management** - The DWL-3200AP is not just fast but it also supports SNMP v.3 for a better network management. Superior wireless AP manager software is bundled with the DWL-3200AP for network configuration and firmware upgrade. Systems administrators can also setup the DWL-3200AP easily with the Web-based configuration. A D-Link D-View module will be downloadable for network administration and real-time network traffic monitoring with D-Link D-View software.
- Utilizes **OFDM** technology (**O**rthogonal **F**requency **D**ivision **M**ultiplexing).
- Operates in the 2.4GHz frequency range.
- **Web-based interface** for managing and configuring.

*Maximum wireless signal rate based on IEEE Standard 802.11a/g specifications. Actual data throughput will vary.

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. D-Link wireless products will allow you access to the data you want, when and where you want it. You will be able to enjoy the freedom that wireless networking brings.

A Wireless Local Area Network (WLAN) is a computer network that transmits and receives data with radio signals instead of wires. WLANs 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.

People use WLAN technology for many different purposes:

Mobility - Productivity increases when people have access to data in any location within the operating range of the WLAN. Management decisions based on real-time information can significantly improve worker efficiency.

Low Implementation Costs - WLANs are easy to set up, manage, change and relocate. Networks that frequently change can benefit from WLANs ease of implementation. WLANs can operate in locations where installation of wiring may be impractical.

Installation and Network Expansion - Installing a WLAN system can be fast and easy and can eliminate the need to pull cable through walls and ceilings. Wireless technology allows the network to go where wires cannot go - even outside the home or office.

Inexpensive Solution - Wireless network devices are as competitively priced as conventional Ethernet network devices. The DWL-3200AP saves money by providing multi-functionality, configurable in one of four different modes.

Scalability - WLANs can be configured in a variety of ways to meet the needs of specific applications and installations. Configurations are easily changed and range from Peer-to-Peer networks suitable for a small number of users to larger Infrastructure networks to accommodate hundreds or thousands of users, depending on the number of wireless devices deployed.



Standards-Based Technology

The DWL-3200AP Wireless Access Point utilizes the **802.11b** and the **802.11g** standards.

The IEEE **802.11g** standard is an extension of the **802.11b** standard. It increases the maximum wireless signal rate of up to 54Mbps* (maximum wireless signal rate of up to 108Mbps* in Super G mode) within the 2.4GHz band, utilizing **OFDM technology**.

This means that in most environments, within the specified range of this device, you will be able to transfer large files quickly or even watch a movie in MPEG format over your network without noticeable delays. This technology works by transmitting high-speed digital data over a radio wave utilizing **OFDM (Orthogonal Frequency Division Multiplexing)** technology. **OFDM** works by splitting the radio signal into multiple smaller sub-signals that are then transmitted simultaneously at different frequencies to the receiver. **OFDM** reduces the amount of **crosstalk** (interference) in signal transmissions.

The D-Link DWL-3200AP will automatically sense the best possible connection speed to ensure the greatest speed and range possible.

802.11g offers WPA, the most advanced network security features available today.

*Maximum wireless signal rate derived from IEEE Standard 802.11g specifications. Actual data throughput will vary. Network conditions and environmental factors lower actual data throughput rate.



Installation Considerations

The D-Link *AirPremier* DWL-3200AP lets you access your network, using a wireless connection, from virtually anywhere within its operating range. 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 DWL-3200AP and other network devices to a minimum - each wall or ceiling can reduce your DWL-3200AP'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 can impede the wireless signal - a solid metal door or aluminum studs may have a negative effect on range. Try to position wireless devices and computers with wireless adapters so that the signal passes through drywall or open doorways and not other materials.
- 4** Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate RF noise.

Three Operational Modes

Operation Mode (Only supports 1 mode at a time)

Function

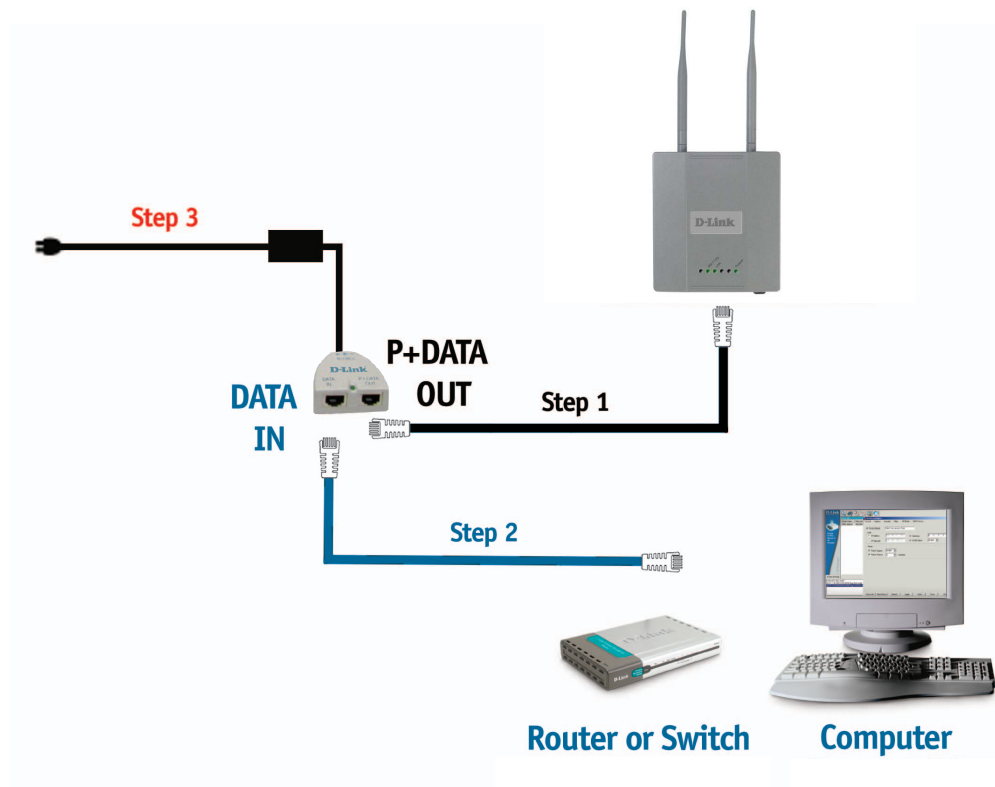
Access Point (AP)	Create a Wireless LAN
AP - to - AP Bridging	Wirelessly Connect 2 Networks
Point - to - Multipoint Bridging	Wirelessly Connect Multi Networks

Getting Started



- 1 You will need broadband Internet access.
- 2 Consult with your Cable or DSL provider for proper installation of the modem.
- 3 Connect the Cable or DSL modem to a Router.
(See the printed Quick Installation Guide included with your router.)
- 4 Connect the Ethernet Broadband Router to the PoE base unit.
(See the printed Quick Installation Guide included with the DWL-3200AP.)
- 5 Connect the DWL-3200AP to the PoE base unit.
(See the printed Quick Installation Guide included with the DWL-3200AP.)
- 6 If you are connecting a desktop computer to your network, install the D-Link DWL-G520 wireless PCI adapter into an available PCI slot on your desktop computer.
(See the printed Quick Installation Guide included with the network adapter.)
- 7 Install the drivers for the D-Link DWL-G650 wireless Cardbus adapter into a laptop computer.
(See the printed Quick Installation Guide included with the DWL-G650.)

Connecting PoE (Power over Ethernet)



- Step 1** Connect one end of an Ethernet cable (included with your package) to the **LAN port** on the DWL-3200AP and the other end of the Ethernet cable to the port labeled **P+DATA OUT** on the PoE base unit.
- Step 2** Connect another Ethernet cable from the **DATA IN** port on the PoE base unit to your router/switch or to a PC.
- Step 3** Attach the power adapter to the connector labeled **POWER IN** on the PoE base unit. Attach the power cord to the power adapter and into an electrical outlet.

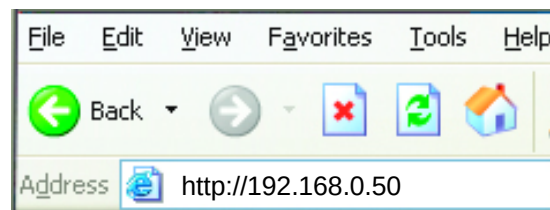
Using the Configuration Menu

To configure the DWL-3200AP, use a computer which is connected to the DWL-3200AP with an Ethernet cable (see the *Network Layout* diagram).

First, disable the **Access the Internet using a proxy server** function. To disable this function, go to **Control Panel > Internet Options > Connections > LAN Settings** and uncheck the enable box.

Start your web browser program (Internet Explorer, Netscape Navigator) .

Type the IP address and http port of the DWL-3200AP in the address field (http://192.168.0.50) and press **Enter**. Make sure that the IP addresses of the DWL-3200AP and your computer are in the same subnet.



After the connection is established, you will see the user identification window as shown.

Note: If you have changed the default IP address assigned to the DWL-3200AP, make sure to enter the correct IP address.

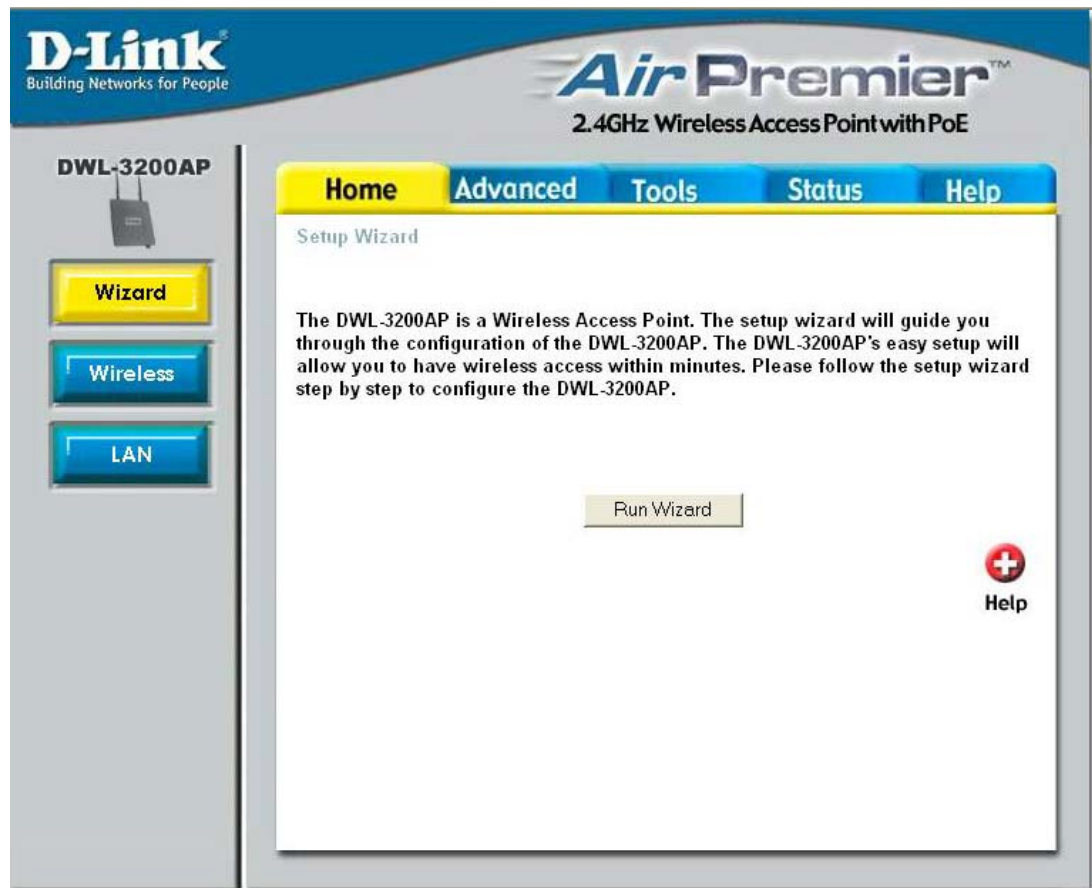
- Type **admin** in the **User Name** field
- Leave the **Password** field blank
- Click **OK**



Note: If you have changed the password, make sure to enter the correct password.

Home > Wizard

The Home>Wizard screen will appear. Please refer to the *Quick Installation Guide* for more information regarding the Setup Wizard.



These buttons appear on most of the configuration screens in this section. Please click on the appropriate button at the bottom of each screen after you have made a configuration change.



Apply

Clicking **Apply** will save changes made to the page



Cancel

Clicking **Cancel** will clear changes made to the page



Help

Clicking **Help** will bring up helpful information regarding the page



Restart

Clicking **Restart** will restart the router. (Necessary for some changes.)

Home > Wireless

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DWL-3200AP

Wizard Wireless LAN

Home Advanced Tools Status Help

Wireless Settings

Wireless Band: IEEE802.11g

SSID: default

SSID Broadcast: Enable

Channel: 6

Radio Frequency: 2.437 GHz

Apply Cancel Help

Wireless Band: IEEE 802.11g

SSID: Service Set Identifier (SSID) is the name designated for a specific wireless local area network (WLAN). The SSID's factory default setting is **default**. The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network.

SSID Broadcast: Enable or Disable SSID broadcast. Enabling this feature broadcasts the SSID across the network.

Channel: **6** is the default channel. All devices on the network must share the same channel. (Note: The wireless adapters will automatically scan and match the wireless setting.)

Radio Frequency: The radio frequency will vary depending on the wireless channel that is chosen. The frequency in channel 6 is 2.437GHz.

Home > LAN

The screenshot shows the configuration web interface for a D-Link Air Premier DWL-3200AP. The interface has a blue header with the D-Link logo and 'Air Premier' branding. Below the header, there are navigation tabs: Home (selected), Advanced, Tools, Status, and Help. On the left side, there are three buttons: Wizard, Wireless, and LAN (highlighted in yellow). The main content area is titled 'LAN Settings' and contains the following fields:

LAN Settings	
Get IP From	Static (Manual) ▼
IP Address	192.168.0.50
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0

At the bottom right of the settings area, there are three icons: a green checkmark, an orange 'X', and a red plus sign. Below these icons are the labels 'Apply', 'Cancel', and 'Help'.

LAN is short for Local Area Network. This is considered your internal network. These are the IP settings of the LAN interface for the DWL-3200AP. These settings may be referred to as private settings. You may change the LAN IP address if needed. The LAN IP address is private to your internal network and cannot be seen on the Internet.

Get IP From: Static (Manual) is chosen here. Choose this option if you do not have a DHCP server in your network, or if you wish to assign a static IP address to the DWL-3200AP. When DHCP is selected the other fields here will be greyed out.

IP Address: The default IP address is 192.168.0.50. Assign a static IP address that is within the IP address range of your network.

Subnet Mask: Enter the subnet mask. All devices in the network must share the same subnet mask.

Default Gateway: Enter the IP address of the gateway in your network. If there isn't a gateway in your network, please enter an IP address within the range of your network.

Advanced > Mode



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Mode

Performance

Filters

Encryption

DHCP Server

Home **Advanced** **Tools** **Status** **Help**

Wireless Band: IEEE802.11g

Access Point ☒

PtP Bridge ☐

Remote AP MAC Address

PtMP Bridge ☐

Remote AP MAC Address

1 2

3 4

5 6

7 8

Apply Cancel Help

Wireless Band: IEEE 802.11g

The DWL-3200AP can be configured to perform in any of **three modes**: access point, point-to-point bridge, and point-to-multi-point bridge.

Access Point: **Access Point** is the default setting. This mode is used to create a wireless LAN.

PtP Bridge: **PtP Bridge** will allow you to connect two LANs together. The wireless bridge mode will work only with another DWL-3200AP. Click to enable and enter the MAC address of the remote bridge.

PtMP Bridge: **PtMP Bridge** will allow you to connect multiple wireless LANs together. Other wireless LANs must be using DWL-3200APs. Click to enable and enter up to 8 remote AP MAC addresses.

Advanced > Performance

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Mode **Performance** **Filters** **Encryption** **DHCP Server**

Home **Advanced** **Tools** **Status** **Help**

Advance Wireless Settings

Wireless Band	IEEE802.11g
Frequency	2.437 GHz
Channel	6
Data Rate	Auto
Beacon Interval (20 - 1000)	100
DTIM (1 - 255)	1
Fragment Length (256 - 2346)	2346
RTS Length (256 - 2346)	2346
Transmit Power	full
Super G Mode	Disabled
802.11g Only	Disabled
Radio Wave	Off
Auto Channel Scan	Disabled

Apply **Cancel** **Help**

Wireless Band: IEEE 802.11g

Frequency: The frequency is 2.437GHz for channel 6.

Channel: The default channel is 6.

Data Rate:* The **Data Rates** are Auto, 1Mbps, 2Mbps, 5.5Mbps, 6Mbps, 9Mbps, 11Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps.

Beacon Interval: Beacons are packets sent by an access point to synchronize a network. Specify a beacon interval value. The default (100) is recommended.

*Maximum wireless signal rate derived from IEEE Standard 802.11g and IEEE Standard 802.11b specifications. Actual data throughput will vary. Network conditions and environmental factors lower actual data throughput rate.

		DTIM:	(<i>Delivery Traffic Indication Message</i>) - Select a setting between 1 and 255. 1 is the default setting. DTIM is a countdown informing clients of the next window for listening to broadcast and multicast messages.
		Fragment Length:	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
		RTS Length:	This value should remain at its default setting of 2346. If you encounter inconsistent data flow, only minor modifications to the value range between 256 and 2346 are recommended
		Transmit Power:	Choose full, half (-3dB), quarter (-6dB), eighth (-9dB), minimum power.
		Super G Mode:	Super G is a group of performance enhancement features that increase end user application throughput in an 802.11g network. Super G is backwards compatible to standard 802.11g devices. For top performance, all wireless devices on the network should be Super G capable. Select either Disabled, Super G without Turbo, Super G with Dynamic Turbo, or Super G with Static Turbo. Disabled: Standard 802.11g support, no enhanced capabilities. Super G without Turbo: Capable of Packet Bursting, FastFrames, Compression, and no Turbo mode. Super G with Dynamic Turbo: Capable of Packet Bursting, FastFrames, Compression, and Dynamic Turbo. This setting is backwards compatible with non-Turbo (legacy) devices. Dynamic Turbo mode is only enabled when all devices on the wireless network are configured with Super G with Dynamic Turbo enabled. Super G with Static Turbo: Capable of Packet Bursting, FastFrames, Compression, and Static Turbo. This setting is not backwards compatible with non-Turbo (legacy) devices. Static turbo mode is always on and is only enabled when all the devices on the wireless network are configured with Super G with Static Turbo enabled.
		802.11g only:	For increased speed in your network, enable this option. 802.11b devices will be excluded.
		Radio Wave:	Select ON or OFF.
		Auto Channel Scan:	Select Enable or Disable. (Enable this feature to auto-select the channel for best wireless performance.)

Advanced > Filters > Wireless Access Settings

The screenshot shows the D-Link Air Premier configuration web interface. The top navigation bar includes 'Home', 'Advanced' (selected), 'Tools', 'Status', and 'Help'. The left sidebar shows 'Mode', 'Performance', 'Filters' (selected), 'Encryption', and 'DHCP Server'. The main content area is titled 'Wireless Access Settings / WLAN Partition'. It contains the following fields:

- Wireless Band:** A dropdown menu showing 'IEEE802.11g'.
- Access Control:** A dropdown menu showing 'Disabled'.
- Mac Address:** An input field with a 'Save' button next to it.

Below these fields are three icons: a green checkmark (Apply), an orange 'X' (Cancel), and a red plus sign (Help). At the bottom, there is a table for the MAC Address List:

MAC Address	Delete	MAC Address	Delete
00:00:00:00:00:00			

Wireless Band: IEEE 802.11g

Access Control: Select **Disabled** to disable the filters function.
 Select **Accept** to accept only those devices with MAC addresses in the Access Control List.
 Select **Reject** to reject the devices with MAC addresses in the Access Control List.

MAC Address: Enter the MAC addresses that you wish to include in your filters list, and click **Save**.

MAC Address List: When you enter a MAC address, it appears in this list. Highlight a MAC address and click **Delete** to remove it from the list.

Advanced > Filters > WLAN Partition

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Mode
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Home Advanced Tools Status Help

WLAN Partition / Wireless Access Settings

Wireless Band: IEEE802.11g

Internal Station Connection: Enabled

Ethernet to WLAN Access: Enabled

Apply Cancel Help

Wireless Band: IEEE 802.11g

Internal Station Connection: Enabling this feature allows wireless clients to communicate with each other. If this is disabled, wireless stations of the selected band are not allowed to exchange data through the access point.

Ethernet to WLAN Access: Enabling this feature allows Ethernet devices to communicate with wireless clients. If this is disabled, all data from the Ethernet to associated wireless devices is blocked. Wireless devices can still send data to the Ethernet.

Advanced > Encryption > Open System and/or Shared Key

The screenshot shows the configuration interface for a D-Link DWL-3200AP. The left sidebar contains navigation buttons: Mode, Performance, Filters, Encryption (highlighted in yellow), and DHCP Server. The main content area is titled 'Air Premier 2.4GHz Wireless Access Point with PoE' and has tabs for Home, Advanced (selected), Tools, Status, and Help. Under the 'Advanced' tab, the 'Security Settings' section is active. It includes fields for Wireless Band (IEEE802.11g), Authentication (Open System, Shared Key, Open System / Shared Key, WPA-EAP, WPA-PSK), PassPhrase, Cipher Type (WEP), Group Key Update Interval (1800), Radius Server, Radius Port, and Radius Secret. The 'Encryption' section has radio buttons for Disabled and Enabled (selected), and a 'Key Type' dropdown set to HEX. The 'Key Size' is set to 64 Bits. Below this is a 'Key Table' with a 'Valid Key' dropdown set to 'First' and four input fields for 'First Key', 'Second Key', 'Third Key', and 'Fourth Key'. At the bottom right are three buttons: Apply (checkmark), Cancel (X), and Help (+).

When you select **Open System**, **Shared Key** or **Open System/Shared Key**, enter values for the fields that are shown here highlighted in blue.

Wireless Band: IEEE 802.11g.

Authentication: Select **Open System** to communicate the key across the network. Select **Shared Key** to limit communication to only those devices that share the same WEP settings. Select **Open System/Shared Key** to communicate the key and require identical WEP settings to communicate.

Encryption: Select **Disabled** or **Enabled**.

Advanced > Encryption > Open System and/or Shared Key (continued)

Key Type:* Select **HEX** or **ASCII**.

Key Size: Select **64-**, **128-**, **152-**bits.

Valid Key: Select the **1st** through the **4th** key to be the active key.

First through Fourth keys: Input up to **four keys** for encryption. You will select one of these keys in the valid key field.

****Hexadecimal** digits consist of the numbers 0-9 and the letters A-F*

***ASCII** (American Standard Code for Information Interchange) is a code for representing English letters as numbers from 0-127*

Advanced > Encryption > WPA-EAP

The screenshot shows the configuration interface for a D-Link DWL-3200AP. The interface has a sidebar on the left with buttons for Mode, Performance, Filters, Encryption (highlighted), and DHCP Server. The main area has tabs for Home, Advanced, Tools, Status, and Help. Under the Advanced tab, the Security Settings section is active. It includes fields for Wireless Band (IEEE802.11g), Authentication (Open System selected, WPA-EAP also visible), PassPhrase, Cipher Type (WEP selected), Group Key Update Interval (1800), Radius Server, Radius Port, and Radius Secret. Below these are Encryption settings (Disabled/Enabled, Key Type: HEX, Key Size: 64 Bits) and a Key Table section with a Valid Key dropdown (First) and four input fields for First, Second, Third, and Fourth keys. At the bottom right are Apply, Cancel, and Help buttons.

When you select **WPA-EAP**, you will configure the following properties.

Cipher Type:	When you select WPA-EAP , you must select AES , AUTO or TKIP from the pull down menu.
Group Key Update Interval:	Select the interval during which the group key will be valid. 1800 is the recommended value. A lower interval may reduce data transfer rate.
Radius Server:	Enter the IP address of the Radius server.
Radius Port:	Enter the Radius port.
Radius Secret:	Enter the the Radius secret.
Encryption:	Select Enabled .

Advanced > Encryption > WPA-PSK

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DWL-3200AP

Mode
Performance
Filters
Encryption
DHCP Server

Home **Advanced** **Tools** **Status** **Help**

Security Settings

Wireless Band: IEEE802.11g

Authentication: ☒ Open System ☐ Shared Key ☐ Open System / Shared key
☐ WPA-EAP ☐ WPA-PSK

PassPhrase:

Cipher Type: WEP Group Key Update Interval: 1800

Radius Server:

Radius Port:

Radius Secret:

Encryption ☐ Disabled ☒ Enabled

Key Type HEX **Key Size** 64 Bits

Key Table

Valid Key First

First Key

Second Key

Third Key

Fourth Key

Apply **Cancel** **Help**

PassPhrase: When you select **WPA-PSK**, please enter a **PassPhrase** in the corresponding field.

Cipher Type: When you select **WPA-PSK**, please select **AES**, **AUTO** or **TKIP** from the pull down menu.

Group Key Update Interval: Select the interval during which the group key will be valid. The default value of 1800 is recommended.

Encryption: Select Enabled.

Advanced > DHCP Server > Dynamic Pool Settings

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Mode
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Encryption
DHCP Server

Home **Advanced** Tools Status Help

[Dynamic Pool Settings](#) / [Static Pool Settings](#) / [Current IP Mapping List](#)

DHCP Server Control

Function Enable/Disable

Dynamic Pool Settings

IP Assigned From

The Range of Pool (1-255)

SubMask

Gateway

Wins

DNS

Domain Name

Lease Time (60 - 31536000 sec)

Status

DHCP Server Control:

Dynamic Host Configuration Protocol assigns dynamic IP addresses to devices on the network. This protocol simplifies network management and allows new wireless devices to receive IP addresses automatically without the need to manually assign new IP addresses.

Select **Enable** to allow the DWL-3200AP to function as a DHCP server.

IP Assigned From:

Input the first IP address available for assignment in your network.

The Range of Pool (1-255):

Enter the number of IP addresses available for assignment.

Advanced > DHCP Server > Dynamic Pool Settings (continued)

SubMask:	All devices in the network must have the same subnet mask to communicate. Enter the submask for the network here.
Gateway:	Enter the IP address of the gateway on the network.
Wins:	Windows Internet Naming Service is a system that determines the IP address of a network computer that has a dynamically assigned IP address.
DNS:	Enter the IP address of the DNS server. The DNS (Domain Name Server) translates domain names such as www.dlink.com into IP addresses.
Domain Name:	Enter the domain name of the DWL-3200AP, if applicable. (An example of a domain name is: www.dlink.com.)
Lease Time (60-31536000 sec.):	The Lease Time is the period of time before the DHCP server will assign new IP addresses.
Status:	Turn the Dynamic Pool Settings ON or OFF here.

Advanced > DHCP Server > Static Pool Settings

The screenshot shows the configuration interface for a D-Link DWL-3200AP. The left sidebar contains navigation buttons: Mode, Performance, Filters, Encryption, and DHCP Server (highlighted in yellow). The main content area has tabs for Home, Advanced (selected), Tools, Status, and Help. Under the Advanced tab, there are links for Static Pool Settings, Current IP Mapping List, and Dynamic Pool Settings. The DHCP Server Control section shows 'Function Enable/Disable' set to 'Disabled'. The Static Pool Settings section includes input fields for Assigned IP (0.0.0.0), Assigned MAC Address, SubMask (0.0.0.0), Gateway (0.0.0.0), Wins (0.0.0.0), DNS (0.0.0.0), Domain Name, and Status (OFF). At the bottom right are icons for Apply, Cancel, and Help. Below this is a table titled 'Assigned Static Pool' with columns for MAC Address, IP address, State, Edit, and Delete.

DHCP Server Control: **Dynamic Host Configuration Protocol** assigns IP addresses to wireless devices on the network. This protocol simplifies network management and allows new wireless devices to receive IP addresses automatically without the need to manually assign IP addresses. Select **Enable** to allow the DWL-3200AP to function as a DHCP server.

Assigned IP: Use the **Static Pool Settings** to assign the same IP address to a device at every restart. The IP addresses assigned in the Static Pool list must NOT be in the same IP range as the Dynamic Pool. After you have assigned a static IP address to a device via its MAC address, click **Apply**; the device will appear in the **Assigned Static Pool** at the bottom of the screen. Edit or delete the device in this list.

Assigned MAC Address: Enter the MAC address of the device here.

SubMask: Enter the subnet mask here.

Gateway: Enter the IP address of the gateway on the network.

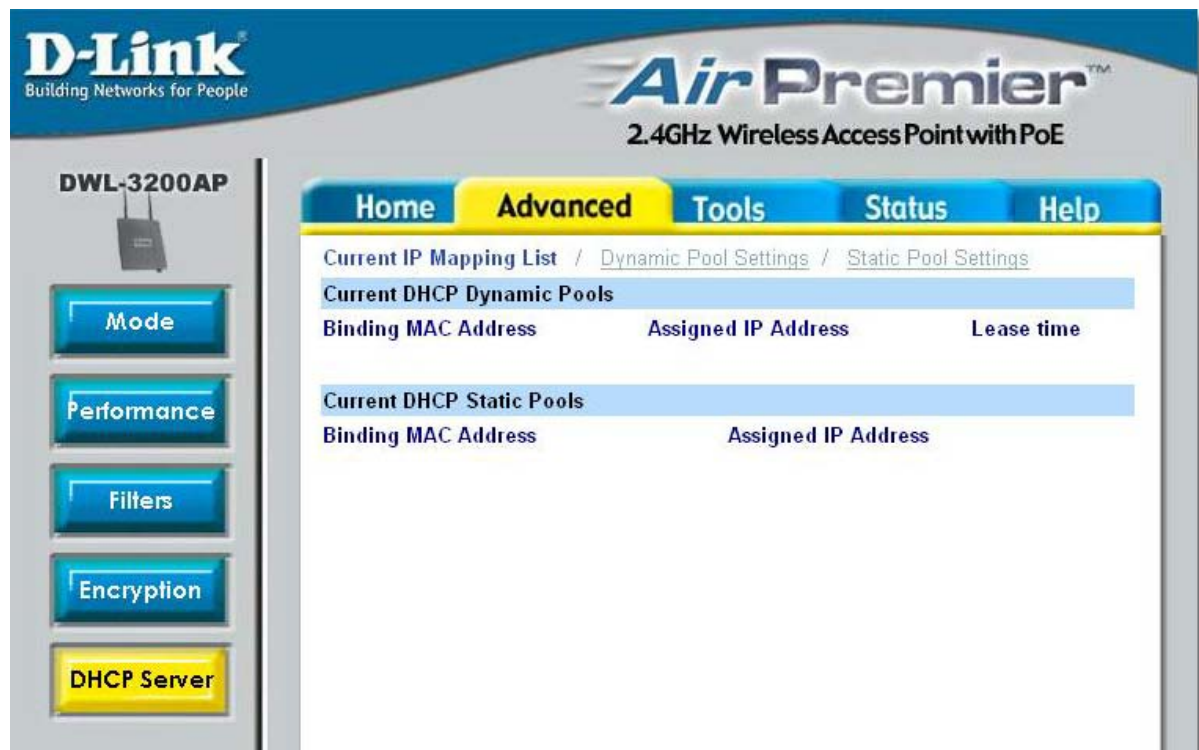
Wins: **Windows Internet Naming Service** is a system that determines the IP address of a network computer with a dynamically assigned IP address, if applicable.

DNS: Enter the IP address of the Domain Name Server, if applicable. The DNS translates domain names such as www.dlink.com into IP addresses.

Domain Name: Enter the domain name of the DWL-3200AP, if applicable.

Status: This option turns the Static Pool settings ON or OFF.

Advanced > DHCP Server > Current IP Mapping List



This screen displays information about the current DHCP dynamic and static IP address pools. This information is available when you enable the DHCP function of the DWL-3200AP and assign dynamic and static IP address pools.

Current DHCP Dynamic Pools: These are IP address pools to which the DHCP server function has assigned dynamic IP addresses.

Advanced > DHCP Server > Current IP Mapping List (continued)

Binding MAC address: The MAC address of a device on the network that is within the DHCP dynamic IP address pool.

Assigned IP address: The current corresponding DHCP-assigned dynamic IP address of the device.

Lease Time: The length of time that the dynamic IP address will be valid.

Current DHCP Static Pools: These are IP address pools to which the DHCP server function has assigned static IP addresses.

Binding MAC address: The MAC address of a device on the network that is within the DHCP static IP address pool.

Assigned IP address: The current corresponding DHCP-assigned static IP address of the device.

Tools > Admin

The screenshot shows the configuration web interface for a D-Link Air Premier DWL-3200AP. The interface has a blue header with the D-Link logo and 'Air Premier' branding. Below the header, there's a navigation bar with tabs: Home, Advanced, Tools (selected), Status, and Help. On the left side, there's a sidebar with buttons: Admin (highlighted in yellow), System, Firmware, Cfg File, and Misc. The main content area is titled 'Administrator Settings' and contains four input fields: User Name (with 'Administrator' entered), Old Password, New Password, and Confirm New Password. To the right of these fields are three icons: a green checkmark, an orange 'X', and a red plus sign, with labels 'Apply', 'Cancel', and 'Help' respectively.

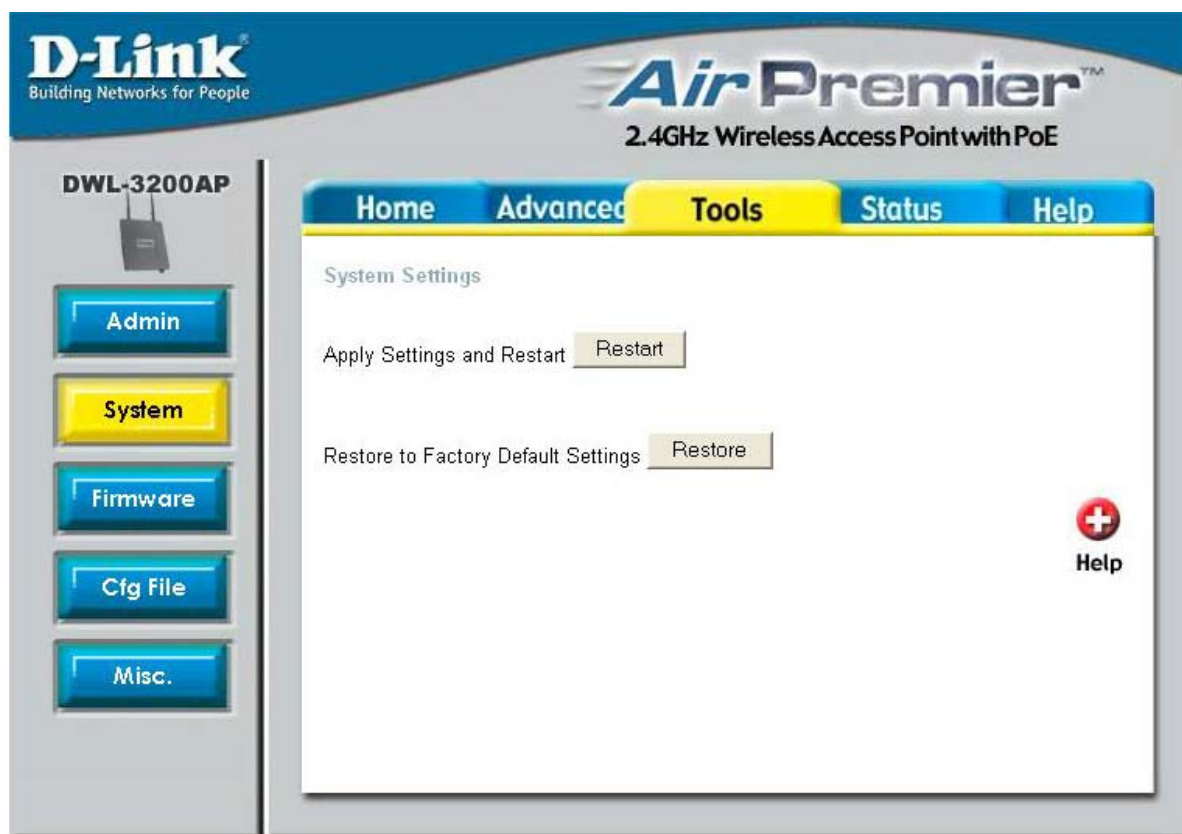
User Name: Enter a user name. The default setting is **admin**.

Old Password: To change your password, enter the old password here.

New Password: Enter your new password here.

Confirm New Password: Enter your new password again.

Tools > System

**Apply Settings and Restart:**

Click Restart to apply the system settings and restart the DWL-3200AP.

Restore to Factory Default Settings:

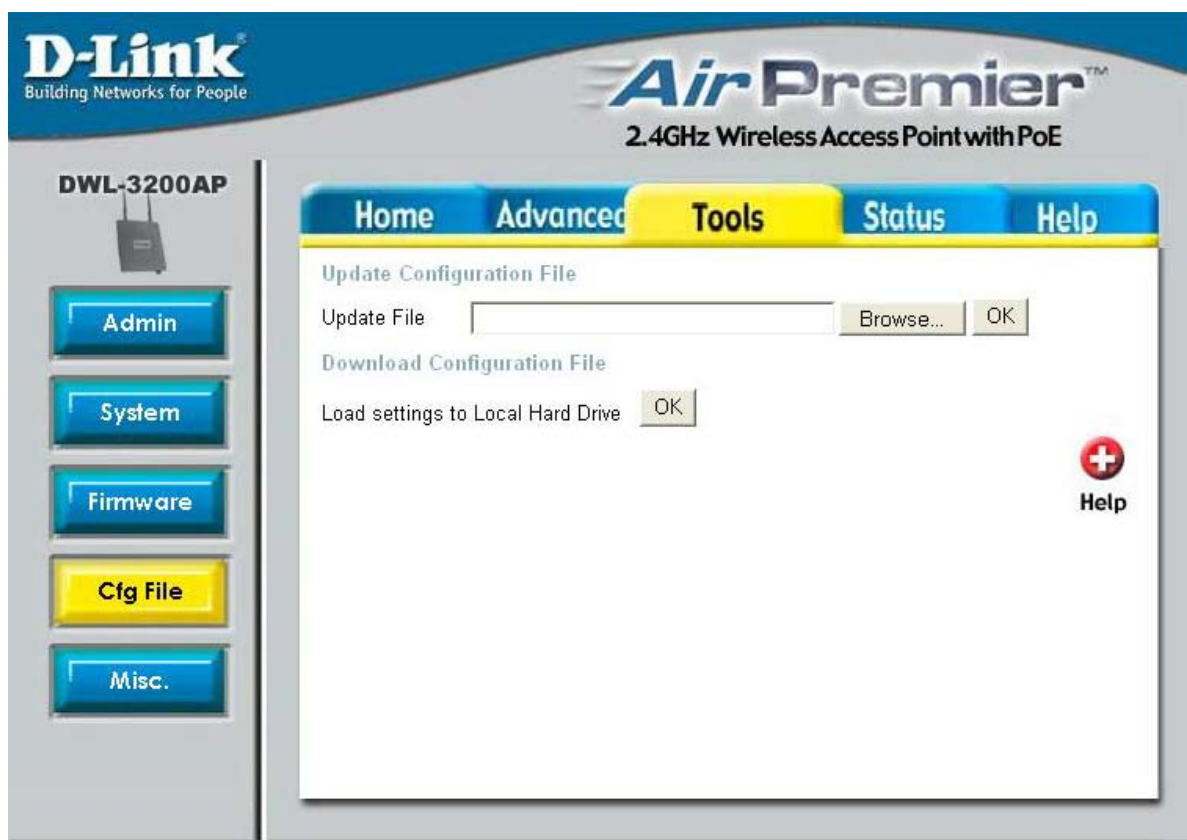
Click Restore to return the DWL-3200AP to its factory default settings.

Tools > Firmware

The screenshot shows the D-Link Air Premier DWL-3200AP configuration interface. The top header includes the D-Link logo and 'Air Premier' branding. The left sidebar contains navigation buttons: Admin, System, Firmware (highlighted), Cfg File, and Misc. The main content area has tabs for Home, Advanced, Tools (selected), Status, and Help. Under the Tools tab, the section is titled 'Update Firmware From Local Hard Drive'. It displays 'Firmware Version: 1.1' and an 'Update File' section with a text input field, a 'Browse...' button, and an 'OK' button. A red plus icon with the word 'Help' is located on the right side of the main content area.

Update File: After you have downloaded the most recent version of the firmware from <http://support.dlink.com> to your hard drive, you can **Browse** your hard drive to locate the downloaded file. Select the file and click **OK** to update the firmware.

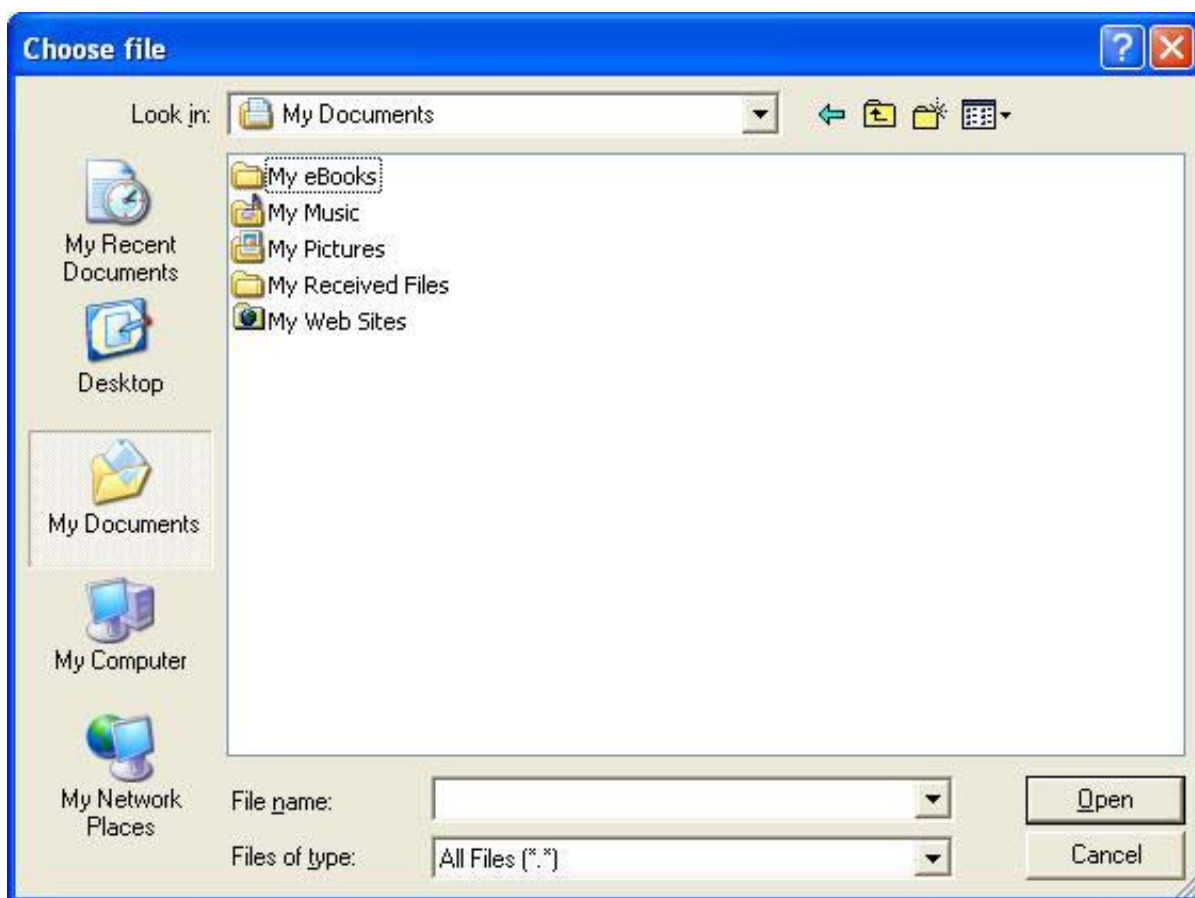
Tools > Cfg File



Update File: Browse for the configuration settings that you have saved to your hard drive. Click OK after you have selected the settings file.

Load Settings to the Local Hard Drive: Click OK to save the selected settings to your hard drive.

Tools > Cfg File > Choose file



When you click **Browse** in the previous screen, the dialog box shown above appears. Select the file you wish to download and click **Open**.



The dialog box above will appear as the device restarts. Please wait for a few seconds.

Tools > Misc > Telnet Settings

The screenshot shows the D-Link Air Premier DWL-3200AP configuration interface. The top navigation bar includes 'Home', 'Advanced', 'Tools' (highlighted), 'Status', and 'Help'. The left sidebar contains buttons for 'Admin', 'System', 'Firmware', 'Cfg File', and 'Misc.' (highlighted). The main content area is titled 'Telnet Settings' and contains two settings: 'Status' with a checked 'Enabled' checkbox, and 'Timeout' with a dropdown menu set to '3 Mins'. At the bottom right of the settings area are three buttons: 'Apply' (green checkmark), 'Cancel' (orange X), and 'Help' (red plus).

Telnet is a program that allows you to control your network from a single PC.

Status: Telnet is enabled by default.

Timeout: Select a time period after which a session timeout will occur.