DWL-8200AP manual

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Package Contents



D-Link Air Premier[®] DWL-8200AP Managed Dualband Access Point

- Power over Ethernet base unit
- Power Adapter-DC 48V, 0.4A
- Power Cord
- Manual and Warranty on CD
- Quick Installation Guide
- Ethernet Cable
- Mounting Plate

Note: Using a power supply with a different voltage than the one included with the **DWL-8200AP** 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
- At least 128MB of memory and a 500MHz processor

Introduction

At up to fifteen times the speed of previous wireless devices (maximum wireless signal rate of up to 108Mbps* in Super A and Super G mode), you can work faster and more efficiently, increasing productivity. With the **DWL-8200AP**, bandwidth-intensive applications like graphics or multimedia will benefit significantly because large files are able to move across the network quickly.

Inclusion of all three standards (802.11g; 802.11a; 802.11b) means that the **DWL-8200AP** is versatile enough to allow connection to almost any 802.11 network or device.

The **DWL-8200AP** is capable of operating in one of 3 different modes to meet your wireless networking needs. The **DWL-8200AP** can operate as an access point, or in WDS (Wireless Distribution System) with AP, or in WDS mode.

Use less wiring, enjoy increased flexibility, save time and money with PoE (Power over Ethernet). With PoE, the **DWL-8200AP** 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-8200AP** provides data transfers at up to 108Mbps in Super AG mode when used with other D-Link *Air* **Premier**[®] products (The 802.11g standard is backwards compatible with 802.11b devices).

WPA is offered in two flavors: **Enterprise** (used for corporations), and **Personal** (used for home users).

WPA-Personal and WPA2-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. **WPA2-Personal** is far superior to **WPA-Personal**, because the encryption of data is upgraded with the Advanced Encryption Standard (AES).

*Maximum wireless signal rate derived from IEEE Standard 802.11a and 802.11g 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. **WPA-Enterprise and WPA2-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 adminstrator can define a list of authorized users who can access the wireless LAN. When attempting to access a wireless LAN with either **WPA-Enterprise** or **WPA2-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. **WPA2-Enterprise** is far superior to **WPA-Enterprise**, because the encryption of data is upgraded with the Advanced Encryption Standard (AES).

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 & Benefits

- 3 Different Operation modes Capable of operating in one of three different operation modes to meet your wireless networking requirements: Access Point; WDS with AP; or WDS.
- Easy Installation with PoE (Power over Ethernet).
- Faster wireless networking speeds up to 108Mbps* in Super AG mode.
- Compatible with 802.11a, 802.11b and 802.11g Devices that is fully compatible with the IEEE 802.11a, 802.11b and 802.11g standards, the DWL-8200AP can connect with existing 802.11b-, 802.11g- or 802.11a-compliant wireless network adapter cards.
- 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-8200AP 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-8200AP 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-8200AP for network configuration and firmware upgrade. Systems administrators can also setup the DWL-8200AP 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 (Orthogonal Frequency Division Multiplexing).
- Operates in the 2.437GHz frequency range for an 802.11a network, and in the 5.26GHz frequency range for an 802.11b and 802.11g network.
- Web-based interface for managing and configuring.

^{*}Maximum wireless signal rate derived from IEEE Standard 802.11a and 802.11g 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.

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 to access 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-8200AP** saves money by providing multi-functionality, configurable in one of three 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-8200AP** Wireless Access Point utilizes the **802.11a**, **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** (**O**rthogonal **F**requency **D**ivision **M**ultiplexing) 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-8200AP** will automatically sense the best possible connection speed to ensure the greatest speed and range possible.

The **DWL-8200AP** offers the most advanced network security features available today, including WPA and WPA2.

In addition to its compatibility with 802.11g and 802.11a devices, the **DWL-8200AP** is compatible with 802.11b devices. This means that if you have an existing 802.11b network, or a network with a mixture of 802.11g, 802.11a and 802.11b, the devices in that network will be compatible with the **DWL-8200AP**.

*Maximum wireless signal rate derived from IEEE Standard 802.11a and 802.11g 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.

Installation Considerations

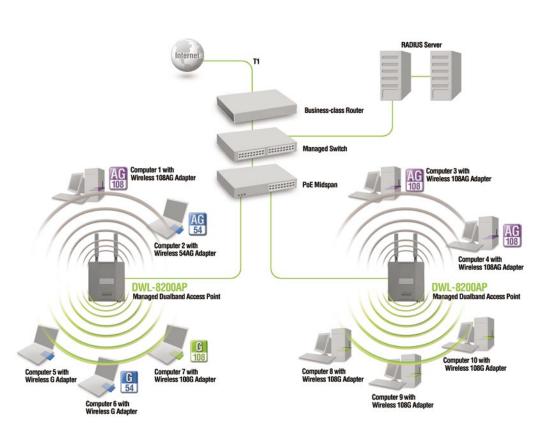
The D-Link *Air* Premier[®] **DWL-8200AP** lets you access your network, using a wireless connection, from virtually anywhere within its operating range. Keep in mind, however, that the number, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through, may 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:

- Keep the number of walls and ceilings between the **DWL-8200AP** and other network devices to a minimum each wall or ceiling can reduce your **DWL-8200AP**'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

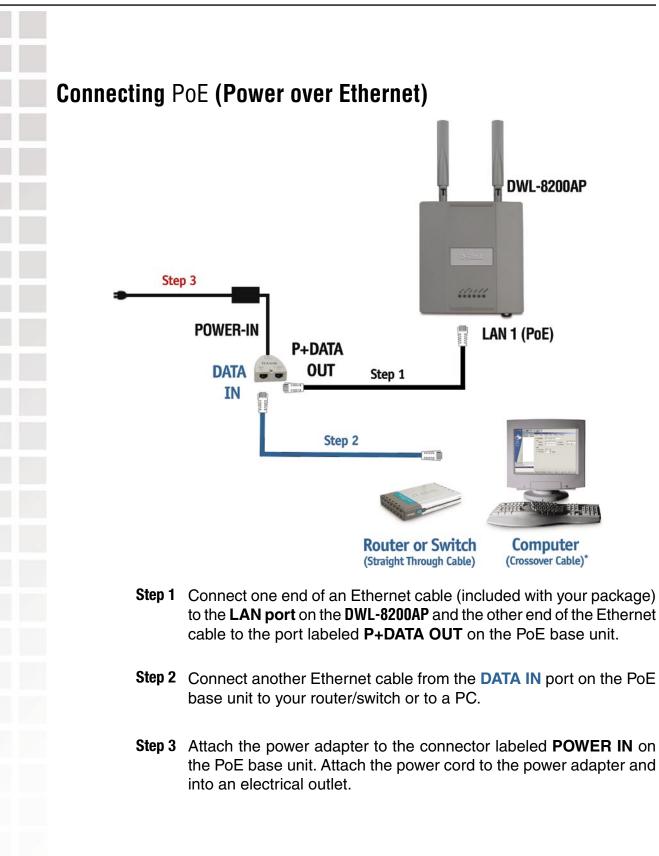
Operation Mode (Only supports 1 mode at a time)	Function
Access Point (AP)	Create a Wireless LAN
WDS with AP	Wirelessly Connect Multi Networks While Still Functioning as a Wireless AP
WDS	Wirelessly Connect Multi Networks

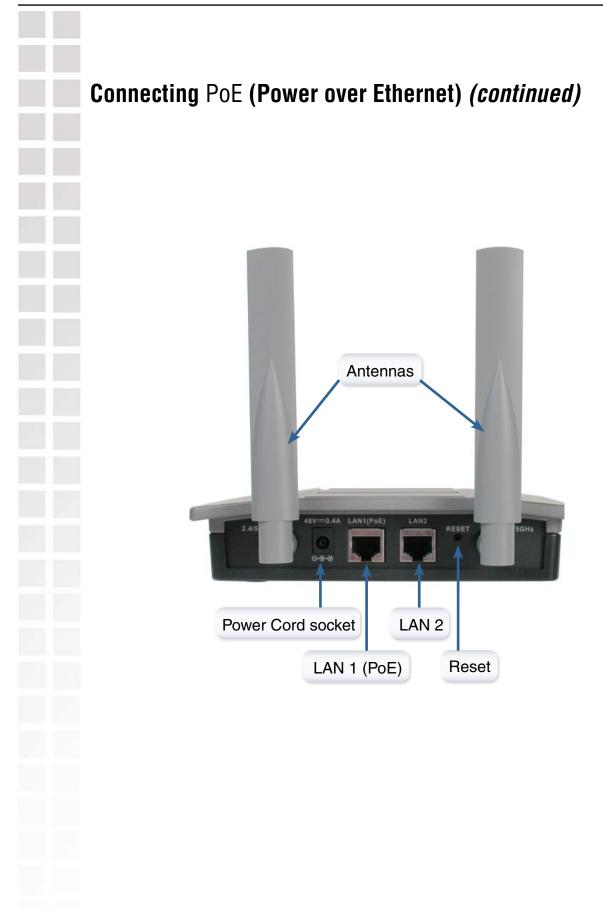
Getting Started



- 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-8200AP**.)
- 5 Connect the **DWL-8200AP** to the PoE base unit. (See the printed Quick Installation Guide included with the **DWL-8200AP**.)
- If you are connecting a desktop computer to your network, install the D-Link DWL-AG530 wireless PCI adapter into an available PCI slot on your desktop computer. (See the printed Quick Installation Guide included with the network adapter.)
- Install the drivers for the D-Link DWL-AG660 wireless Cardbus adapter into a laptop computer.
 (See the printed Quick Installation Guide included with the DWL-AG650.)

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Using the Configuration Menu

To configure the **DWL-8200AP**, use a computer which is connected to the **DWL-8200AP** 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-8200AP** in the address field (http://192.168.0.50) and press **Enter**. Make sure that the IP addresses of the **DWL-8200AP** and your computer are in the same subnet. **DWL-8200AP** also supports HTTPS Browsing by using the Secure Socket Layer (SSL) Protocol. Just change your Browser's address line from "http://..." to "https://..." and log into the AP again.



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-8200AP**, make sure to enter the correct IP address.

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

Connect to loca	ılhost 🤶 🔀
R	
DWL-8200AP	
<u>U</u> ser name:	😰 admin 💌
Password:	
	Remember my password
	OK Cancel

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.

WL-8200AP			Vlanaged Dua	alband Access	Point
WE-0200AP	Home	Advanced	Tools	Status	Help
	Setup Wizard				
		step by step to confi			
LAN		C	Run Wizard		G

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.



Clicking Apply will save changes made to the page



Clicking Cancel will clear changes made to the page



Clicking Help will bring up helpful information regarding the page



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

10100	Networks for People				band Access	
Dw	L-8200AP	Home	Advanced	Tools	Status	Help
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	Onen Svet	m				
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thentication:	Shared Key Open Syste WPA-Enter WPA-Perso WPA2-Ente	/ em/Shared prise nal rprise onal	Key			

Home > Wireless > Access Point > Authentication (continued)

Select Open System/Shared Key to allow either form of data encryption.

Select **WPA-Enterprise** to secure your network with the inclusion of a RADIUS server.

Select **WPA-Personal** to secure your network using a password and dynamic key changes. (No RADIUS server required.)

Select **WPA2-Enterprise** to secure your network with the inclusion of a RADIUS server and upgrade the encryption of data with the Advanced Encryption Standard (AES).

Select **WPA2-Personal** to secure your network using a password and dynamic key changes. No RADIUS server required and encryption of data is upgraded with the Advanced Encryption Standard (AES).

Select WPA-Auto-Enterprise to allow the client to either use WPA-Enterprise or WPA2-Enterprise.

Select WPA-Auto-Enterprise to allow the client to either use WPA-Personal or WPA2-Personal.

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Building Netw	ink vorks for People	Air Premier Managed Dualband Access Point
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Wireless Band:	Select	Apply Cancel F
Mode:		s Point is selected from the pull-down menu.
SSID:	wireless setting i	Set Identifier (SSID) is the name designated for a s s local area network (WLAN). The SSID's factory is default . The SSID can be easily changed to connec wireless network or to establish a new wireless network
SSID Broadcast:		or Disable SSID broadcast. Enabling this feature broa D across the network.
Channel:	channe	ne default channel for IEEE 802.11a, and 6 is the I for IEEE 802.11g. All devices on the network must the channel. (Note: The wireless adapters will automa

Home > Wireless > Access Point > Open System and/or Shared Key *(continued)*

Auto Channel Scan:	Select Enable or Disable . (Enable this feature to auto-select the channel for best wireless performance.)
Authentication:	See Home > Wireless > Access Point > Authentication on pages 16-17.
Encryption:	Select Disabled or Enabled . (Disabled is selected here).
Кеу Туре:	Select HEX or ASCII.
Key Size:	Select 64-bit, 128-bit, or 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 0-127.

Home > Wireless > Access Point > WPA-Enterprise, WPA2-Enterprise, & WPA-Auto-Enterprise

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Cipher Type:	WPA-Aut		ise , you mu			terprise or TO, or TKIP
Group Key Update Interval:			•	•	•	valid. 1800 is transfer data
Radius Server:	Enter the I	P address o	of the Radius	s server.		
Radius Port:	Enter the F	Radius port				
Radius Secret:	Enter the F	Radius secr	et.			

Home > Wireless > Access Point > WPA-Personal, WPA2-Personal, & WPA-Auto-Personal

	works for People				Premie Ilband Access	and the second
DWL	OZUUAP	Home	Advanced	Tools	Status	Help
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iroup Key Update Interval:			uring which is reommer	U 1	o key will b	e valid. Tł
PassPhrase:			ersonal, WP/ Phrase in th		•	

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Home Advanced Tools Status Wireless Settings Wireless Wireless Wireless Band Image: Status Wireless Wireless Band Image: Status Wireless SSID default SSID Broadcast Image: SSID Broadcast Channel 52 • 5.26 GHz Auto Channel 52 • 5.26 GHz SSID Generation VDS with AP Remote AP MAC Address 1 2 3 4 5 6 7 8 Authentication Open System Mode WPA-Personal WPA-Personal WPA-Personal WPA-Personal	Home Advanced Tools Status Wireless Status Wireless SSID default SSID default SSID default SSID default SSID default SSID Channel SSID default SSID	Home Advanced Tools Status Wireless Status Wireless Wireless Wireless Status Wireless Wireless Wireless Wireless Wireless <td< th=""><th></th><th>DWL-8200AP</th><th></th><th>Managed Dua</th><th>alband Access Poi</th></td<>		DWL-8200AP		Managed Dua	alband Access Poi
	Second Key Third Key Fourth Key	Second Key Third Key Fourth Key		Wireless	Wireless Settings Wireless Band Mode SSID SSID Broadcast Channel WDS with AP- Remote AP MAC 1 3 5 7 Authentication Key Settings Encryption Key Type Valid Key	S IEEE802.11 a WDS with AP default Enable 52 52 52 52 52 6 Address 2 4 6 6 8 0 0pen System Open System Open System/Shared Key WPA2-Personal WPA2-Personal WPA2-Personal	Channel Scan
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				-	Shared Key	1	
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Shared Key Open System/Shared Key	Shared Key Open System/Shared Key	Shared Key Open System/Shared Key					
Shared Key	Shared Key Open System/Shared Key WPA-Personal	Shared Key Open System/Shared Key WPA-Personal					

Home > Wireless > WDS with AP > Authentication (continued)

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 allow either form of data encryption.

Select **WPA-Personal** to secure your network using a password and dynamic key changes. (No RADIUS server required.)

Select **WPA2-Personal** to secure your network using a password and dynamic key changes. No RADIUS server required and encryption of data is upgraded with the Advanced Encryption Standard (AES).

Select WPA-Auto-Personal to allow the client to either use WPA-Personal or WPA2-Personal.

	orks for People			Premie alband Access F	
DWL-	Hon	e Advance	d Tools	Status	Help
	Wireless	Settings			
	Zard Wireless	Band IEEE802	2.11a 💌		
VI	Mode	WDS wi	th AP 💌		
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Wir	SSID Bro	dcast Enable	~		
	Channel		5.26 GHz 🗌 Auto (Channel Scan	
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	Valid Ke		Key (3126	
	First Ke	1	10		
	Second				
	Third Ke				
	Fourth P	ey			
					Cancel Help
DS with AP r	node, the DWL-82	MAP wireless	sly connects	multiple net	works v
	a wireless AP.				
Vireless Band:	Select either IE	EE 802.11a d	or IEEE 802.	11g	
				•	
Mode:	WDS with AP is	selected fro	om the pull-d	own menu.	
SSID:	Service Set Ide	ntifior (CCID)	is the name	designated	for a co
J JID.	wireless local a	, ,		-	-

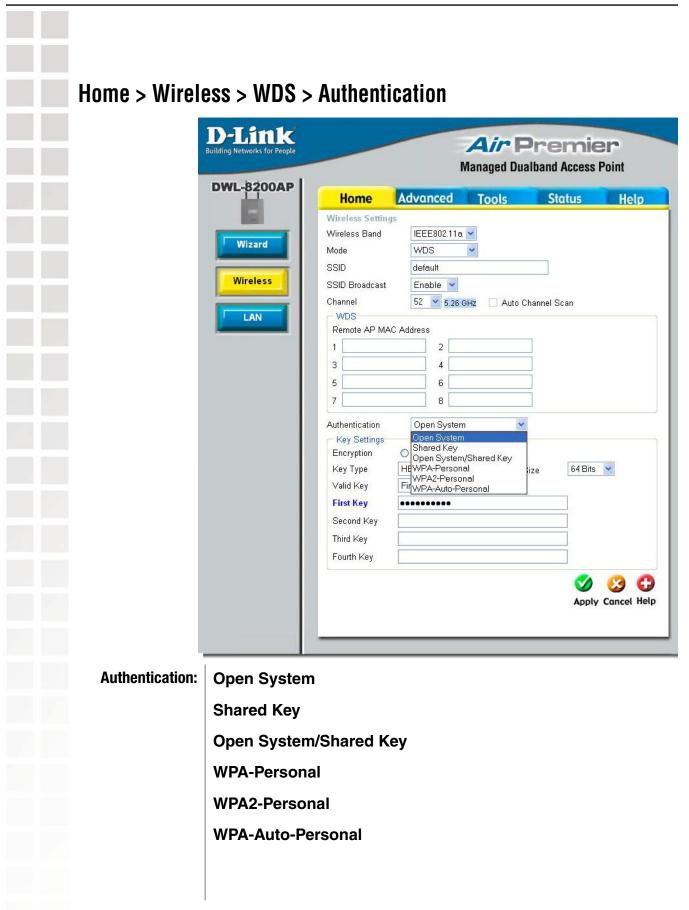
existing wireless network or to establish a new wireless network.

Home > Wirel	ess > WDS with AP > Open System and/or Shared Key
(continued)	
SSID Broadcast:	Enable or Disable SSID broadcast. Enabling this feature broadcasts the SSID across the network.
Channel:	52 is the default channel for IEEE 802.11a, and 6 is the default channel for IEEE 802.11g. All devices on the network must share the same channel. (Note: The wireless adapters will automatically scan and match the wireless setting.)
Auto Channel Scan:	This option is unavailable in WDS with AP mode.
Remote AP MAC Address:	Enter the MAC addresses of the APs in your network that will serve as bridges to wirelessly connect multiple networks.
Authentication	See Home > Wireless > WDS with AP > Authentication on pages 22-23.
Encryption:	Select Disabled or Enabled . (Disabled is selected here).
Кеу Туре:	Select HEX or ASCII.
Key Size:	Select 64-bit, 128-bit, or 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 0-127.

Home > Wireless > WDS with AP > WPA-Personal, WPA2-Personal, & WPA-Auto-Personal

D-I Building Net	ink vorks for People				Premie alband Access	
DWL-	8200AP	Home	Advanced	Tools	Status	Help
wi	izard reless	Wireless Settin Wireless Band Mode SSID SSID Broadcast Channel WDS with AF Remote AP M 1 02:00:76:35 3 5 7 Authentication PassPhrase Cipher Type	IEEE802.11a WDS with AP AP_11a Enable v 52 v 5.26 (AC Address :ef:47 2 4 6 8 WPA-Person Settings AUTO v	SHz Auto C	hannel Scan	
		PassPhrase	11apassphrase		S Apply	Cancel Help
Cipher Type:			Personal , WF S, AUTO , or			
oup Key Update Interval:			during which) is reomme	0	p key will I	be valid.
PassPhrase:			Personal, WF Phrase in th			



Home > Wireless > WDS > Authentication (continued)

Select **Open System** to communicate the key across the network.

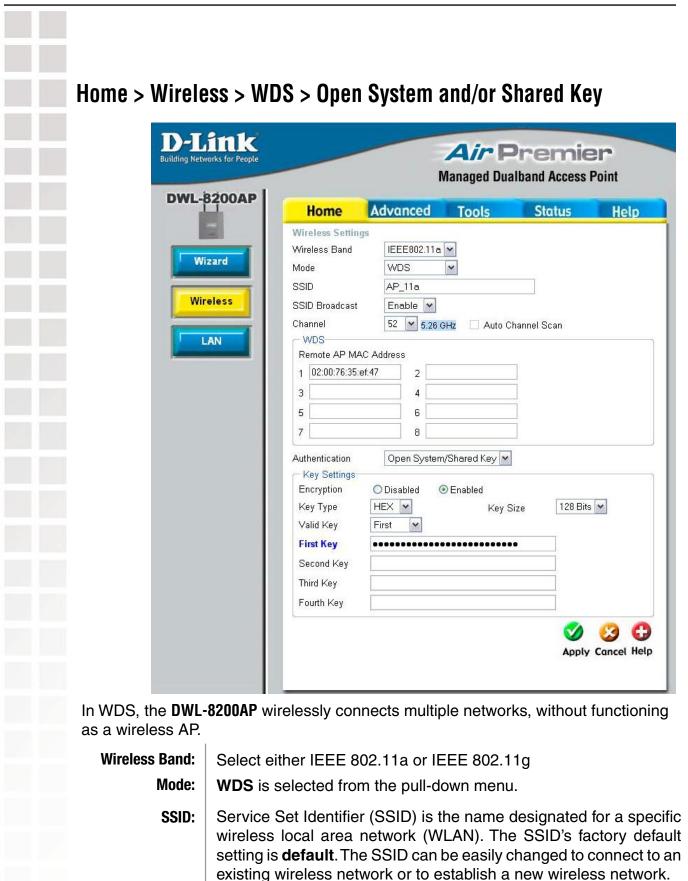
Select **Shared Key** to limit communication to only those devices that share the same WEP settings.

Select Open System/Shared Key to allow either form of data encryption.

Select **WPA-Personal** to secure your network using a password and dynamic key changes. (No RADIUS server required.)

Select **WPA2-Personal** to secure your network using a password and dynamic key changes. No RADIUS server required and encryption of data is upgraded with the Advanced Encryption Standard (AES).

Select WPA-Auto-Personal to allow the client to either use WPA-Personal or WPA2-Personal.



Home > Wirele	ess > V
SSID Broadcast:	Enable the SS
Channel:	52 is thann the sa
Auto Channel Scan:	This o
Remote AP MAC Address:	Enter as brid
Authentication:	See H
Encryption:	Select
Key Type:	Select
Key Size:	Select
Valid Key:	Select
First through Fourth keys:	Input u in the
* Hexadecimal digits consis ASCII (American Standard C	t of the num Code for Info

NDS > Open System and/or Shared Key *(continued)*

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

- the default channel for IEEE 802.11a, and 6 is the default nel for IEEE 802.11g. All devices on the network must share ame channel.
- option is unavailable in WDS mode.
- the MAC addresses of the APs in your network that will serve dges to wirelessly connect multiple networks.
- **Home > Wireless > WDS > Authentication** on pages 27-28.
 - t **Disabled** or **Enabled**. (**Disabled** is selected here).
 - t HEX or ASCII.
 - et 64-bit, 128-bit, or 152 bits.
 - t the **1st** through the **4th** key to be the active key.
 - up to four keys for encryption. You will select one of these keys valid key field.

nbers 0-9 and the letters A-F.

ormation Interchange) is a code for representing English letters as numbers 0-127.

Home > Wireless > WDS > WPA-Personal, WPA2-Personal, & WPA-Auto-Personal

and a l		Managed Dua	Iband Access	Point
Home	Advanced	Tools	Status	Help
Wireless Se	ttings			
Wireless Bar	IEEE802.11	a 🕶		
Mode	WDS	*		
SSID	AP_11a			
SSID Broadd	ast Enable 💌			
Channel	52 🛩 5.28	GHz 🗌 Auto C	hannel Scan	
- WDS				
	MAC Address		-	
1 02:00:76	:35:ef:47 2			
3	4			
5	6			
7	8			
Authenticatio	n WPA2-Pers	onal 🔽		
	se Settings	unai 💌		
Cipher Type		Group Key Updat	e Interval 1800	
PassPhras		croup r.c.j opdat		
1 4551 1145	e Trapaspinase			
			20	63 6

Cipher Type:	When you select WPA-Personal , WPA2-Personal, or WPA-Auto-Personal , 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. The default value of 1800 is reommended.
PassPhrase:	When you select WPA-Personal , WPA2-Personal , or WPA-Auto-Personal , please enter a PassPhrase in the corresponding field.

D-Link Building Networks for People			Air P Managed Dualt		
DWL-8200AP	Home	Advanced	Tools	Status	Help
Wizard Wireless	Get IP From IP address Subnet Mask Default Gateway	1	Static (Manual) 22.168.0.50 92.168.0.50 55.255.255.0 .0.0.0	Mapply Canc	el 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-8200AP**. 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-8200AP . When Dynamic (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.

D-Link ilding Networks for People		Air F Managed Dua	Premie Iband Access	
WL-8200AP Home	Advanced	Tools	Status	He
Filters Channel Data Rate Data Rate Beacon Interval DTIM (1 - 255) DHCP Server Fragment Leng Multi-SSID Super Mode Radio Radio	th (256 - 2346) 56 - 2346)	5.26 GHz 52 Auto 100 1 2346 2346 2346 Disabled On	Solution Apply Cancel	ct Help

By changing radio parameters in the performance section, you can customize the radio network to fit your needs. Performance functions are designed for more advanced users who are familiar with 802.11 wireless networks and radio configuration.

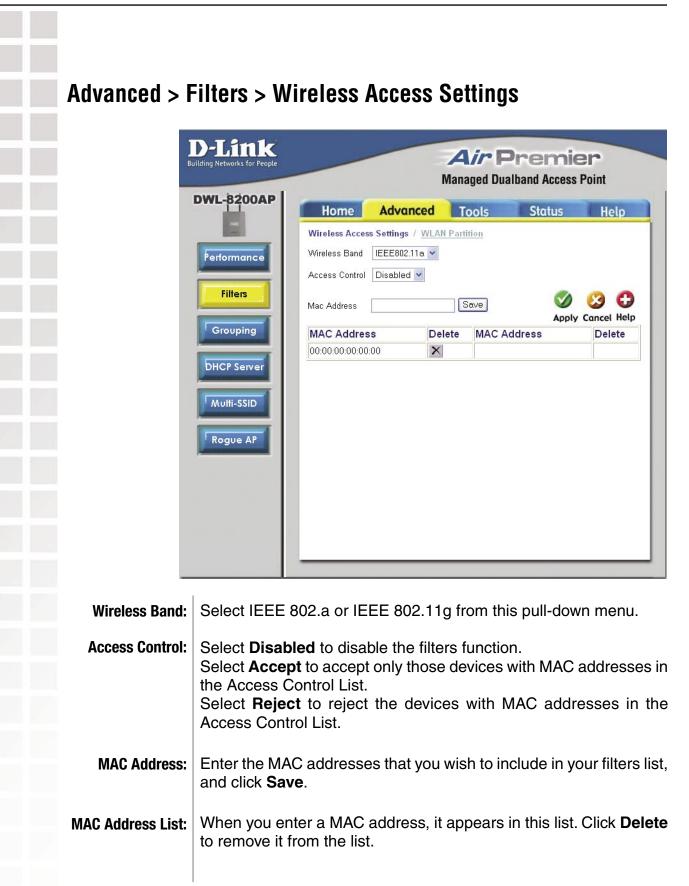
Wireless Band:	Select IEEE 802.11a or IEEE 802.11g from this pull-down menu.
Frequency:	The frequency is 2.437GHz for Channel 6, and 5.26GHz for Channel 52.
Channel:	Indicates the channel setting for the DWL-8200AP . By default the channel for IEEE 802.11g is set to 6 , and the default channel for IEEE 802.11a is set to 52 . The Channel can be changed to fit the channel setting for an existing wireless network or to customize the wireless network.

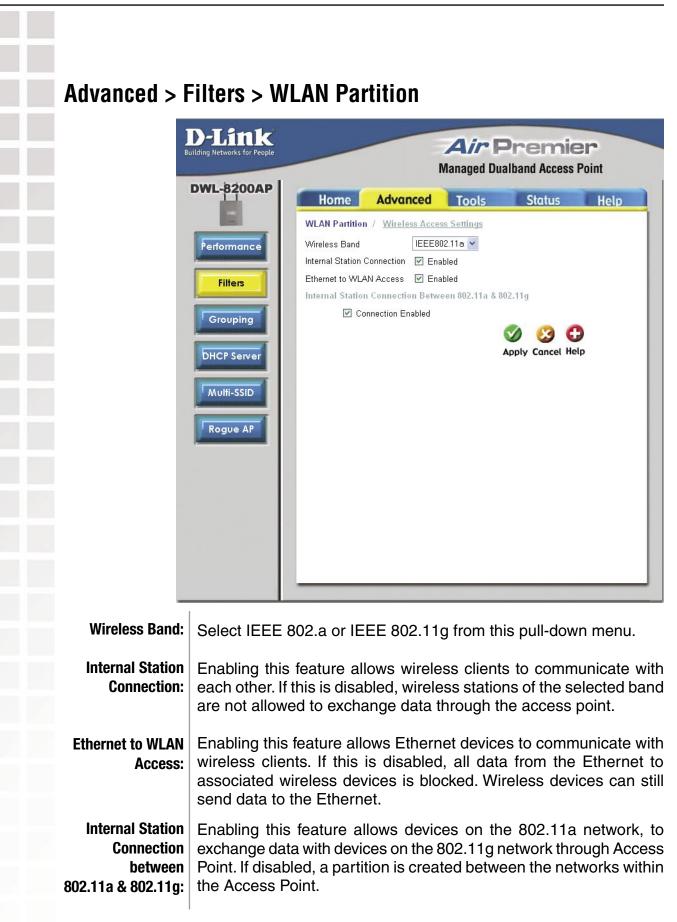
Data Rate*:	The default value is set to " Auto ", which adjusts the base transferrate depending on the base rate of the connecting device. The Data Rates are Auto , 6Mbps , 9Mbps , 12Mbps , 18Mbps , 24Mbps , 36Mbps , 48Mbps , 54Mbps .		
Beacon Interval (20-1000):	Beacons are packets sent by an Access Point to synchronize a wireless network. Specify a Beacon interval value between 20 and 1000. The default value is set to 100 milliseconds.		
DTIM (1-255):	<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.		
Fragmentation Length (256-2346):	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 (256-2346):	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 Mode:	Super Mode is a group of performance enhancement features that increase end user application throughput in an 802.11a and 802.11g network. Super Mode is backwards compatible to standard 802.11g devices. For top performance, all wireless devices on the network should be Super Mode capable. Select either Disabled, Super Mode without Turbo, Super Mode with Static Turbo, or Super Mode with Dynamic Turbo.		
	Disabled: Standard 802.11a and 802.11g support, no enhanced capabilities.		

*Maximum wireless signal rate derived from IEEE Standard 802.11a and 802.11g 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.

Advanced > Performance (continued)

	Super Mode without Turbo:	Capable of Packet Bursting, FastFrames, Compression, and no Turbo mode.
	Super Mode 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 Mode with Static Turbo enabled.
	Super Mode 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 Mode with Dynamic Turbo enabled.
Radio Wave:	Select ON or (DFF.





Advanced > Grouping

-	Home	Advanced	Tools	Status	Help
Performance	AP Grouping S Load Balance User Limit (0 - I	Disabled	¥		
Grouping				Apply	Cancel He
DHCP Server					
Rogue AP					

Load Balance: When Enabled, you allow several DWL-8200APs to balance wireless network traffic and wireless clients among DWL-8200APs in the network. Assign each access point a different non-overlapping channel (e.g., 1, 6, 11).

User Limit (0-64)	Set the User Limit in this field (0-64).
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Performance Filters Grouping DHCP Server Multi-SSID Rogue APF Dynamic Pool Settings / Static Pool Settings / Current P Mapping List DHCP Server DHCP Server Status Disabled Disabled	Home Advanced Tools Status He Dynamic Pool Settings / Static Pool Settings / Current IP Mapping List DHCP Server Control Filters Grouping DHCP Server Multi-SSID Multi-SSID Home Advanced Tools Status Here Dynamic Pool Settings / Static Pool Settings / Current IP Mapping List DHCP Server Disabled Dynamic Pool Settings IP Assigned From D.0.0 SubMask 0.0.0 Gateway D.0.0 DNS Domain Name Lease Time (60 - 31536000 sec)	Performance	c Pool Settings / Static Pool Settings / Current IP Mapping L erver Control Enable/Disable Disable c Pool Settings ned From 0.0.0.0
		Multi-SSID	k 0.0.0 0 0.0.0 0 0.0.0 0 0.0.0 0 0.0.0 0 0.0.0 0 0.0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
			Αρριγ

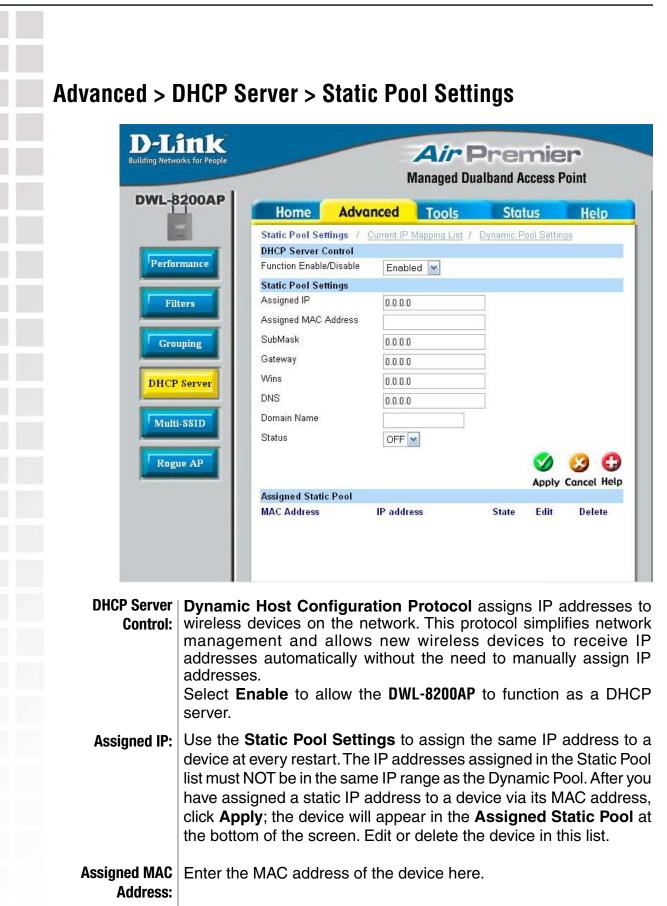


Advanced > DHCP Server > Dynamic Pool Settings (continued)

- **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-8200AP**, if applicable. (An example of a domain name is: www.dlink.com.)

Lease TimeThe Lease Time is the period of time before the DHCP server will(60-31536000
sec.):assign new IP addresses.

Status: | Turn the Dynamic Pool Settings ON or OFF here.





Advanced > DHCP Server > Static Pool Settings (continued)

- 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-8200AP**, if applicable.

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

Advanced > DHCP Server > Current IP Mapping List

Link etworks for People			Air P Managed Dual		Charles Inclusion
8200AP	Home	Advanced	Tools	Status	Help
	-		amic Pool Settings /	Static Pool S	ettings
	Current DHCP Binding MAC A	Dynamic Pools Address	Assigned IP Addres	ss	Lease time
	Current DHCP	Static Pools			
	Binding MAC /	Address	Assigned I	P Address	

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-8200AP** and assign dynamic and static IP address pools.

Current DHCPThese are IP address pools to which the DHCP server function hasDynamic Pools:assigned dynamic IP addresses.

Advanced > DI	HCP Server > Current IP Mapping List <i>(continued)</i>
	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.
	These are IP address pools to which the DHCP server function has assigned static IP addresses.
-	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.

	D-L1 Building Networks	s for People				Air F anaged Dua	No. Contraction	and the second
	DWL-82	00AP	Home	Advo	anced	Tools	Status	Help
	Perform	ance	Multi-SSID So Enable M Soth		O11g			
	Filte	-	Band MSSID Index	IEEE802.1	1a 💌			
	Groupi	ing	SSID Security	None				
	DHCP Se		Кеу Туре	Hex 🔽				
	DHCP SE	erver	Key Size Keγ	64 Bits 🔽				
	Multi-S	SID	Ethernet	⊙ Main	⊖ Guest			
			Group ID			Save		
	Rogue	AP	Mulit-SSID-	110.010				
_			Ethernet	MSSID Index	SSID	Band	Encryption	Group ID Del
			Main	Master	default	11a	OFF	0
			Main	Master	default	11g	OFF	0
Enable Mult			ulti-SSID is				gure you	r SSIDs fo
			a only, or [•]	-	-			
	Band: S	Select th	e wireless	band	(IEEE8()2.11a or	IEEE80	2 .11g).
		Vou oon	select up t			er band, MSSIDs		
MSSID			which puts					
MSSID	k	orimary,	•			ne name	designat	ted for a s
MSSID	SSID: S	orimary, Service : wireless	Set Identifi local area	ier (SS a netwo	ID) is th ork (WI	_AN). Th	e SSID's	s factory
MSSID	SSID: S	orimary, Service : wireless setting is	Set Identifi local area default.T	ier (SS a netwo The SSI	ID) is th ork (WI ID can b	_AN). The	e SSID's changed	s factory to connec
MSSID	SSID: S	orimary, Service : wireless setting is	Set Identifi local area	ier (SS a netwo The SSI	ID) is th ork (WI ID can b	_AN). The	e SSID's changed	s factory to conne

to be set as the

Ad

dvanced > I	Multi-SSID <i>(continued)</i>
Кеу Туре:	Select HEX or ASCII.
Key Size:	Select 64-bit, 128-bit, or 152-bit.
Кеу:	Select the 1st key all the way through the 4th key, active key. Enter key here.

- **Ethernet:** Select "**Main**" if you wish to configure the network on LAN 1 (PoE). Select "**Guest**" to set up the network on LAN 2.
- **Group ID:** You can assign a value to group all of the SSIDs to each other. The Group ID is 0 by default, which is also considered Primary SSID. Use Group ID 0-15 for "**Main**", or use Group ID 16-30 for "**Guest**".

Note: Everytime you configure one Multi-SSID, you are required to click on "**Save**" and then "**Apply**".

Note: If the Master sets security to key 1, then key 1 can not be used. This leaves three Multi-SSIDs that can use security per band. The final result will mean that for each band, four Multi-SSIDs will be without security.

Note: If Main Master SSID supports **WPA** or **WPA2**, then the guest is not allowed to set security.

Advanced > Rogue AP

DWL-8200AP	and the second s	-					
	Home	2	Advanced	Тос	ols	Status	H
	Rogue AP	Deteo	ction				
Performance	BSS Type						
		() A	ld Hoc 🔘 Both				
Filter	Band]11b	🗌 11g				
Groupier	Security						
Grouping		WEF	P 🔲 WPA-Enterp	rise 🗆 W	PA-Person	al	
DHCP Server	- Rogue A	P List					
				Dete	ect		
Multi-SSID	Туре	CH	BSSID	Security	MODE	CCID	A LL D.
Rogue AP	- AP List-					SSID	Add De
Rogue AP	AP List- Type	СН	BSSID	Security		SSID	Del
Rogue AP	Same and the	CH	BSSID 00:01:02:03:04:05	WPA- Enterprise			Del
Rogue AP	Туре			WPA- Enterprise WPA- Enterprise	MODE	SSID	Del TŪ TŪ
Rogue AP	Type ad_hoc	1	00:01:02:03:04:05	WPA- Enterprise WPA-	MODE 802.11b	SSID	Del

Advanced > Rogue AP *(continued)*

- Security: Select the Security type Off, WEP, WPA-Enterprise, and WPA-Personal that you would like to be consider during AP detection.
- **Rogue AP List:** This window shows all of the neighbor APs detected, which is based on your criteria from above (BSS Type, Band, and Security). If the AP is in the same network, or if you know the AP, just click on "**Add**" to save it to the AP list.
 - AP List: This window shows all of the APs that are allowed access on the network.

Building Netwo	Managed Dualband Access Point
Adı	Apply Cancel Help
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

Home Advanced Tools Status Help System Settings Apply Settings and Restart Restart Restore to Factory Default Settings Restore	system Settings apply Settings and Restart Restore to Factory Default Settings Restore
Apply Settings and Restart Restart Restore to Factory Default Settings Restore	opply Settings and Restart Restart Restore to Factory Default Settings Restore
	lestore to Factory Default Settings Restore
G	G
G	G
Hel	Hel

You may restart the **DWL-8200AP** with the changed settings or reset the **DWL-8200AP** back to factory settings.

Apply Settings and Restart:	Click Restart to apply the system settings and restart the DWL-8200AP .
Restore to Factory Default Settings:	Click Restore to return the DWL-8200AP to its factory default settings.
	I

Tools > Firmware D-Link **Air** Premier Building Networks for People **Managed Dualband Access Point DWL-8200AP** Advanced Status Help Home Tools Update Firmware From Local Hard Drive Firmware Version: 1.1 Admin Update File Browse... OK o System Help Firmware Cfg File Misc.

The firmware of the **DWL-8200AP** can be upgraded to resolve any compatibility or system conflicts. Please visit http://support.dlink.com for the latest firmware for this device.

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. The AP will automatically restart after the firmware upgrade.

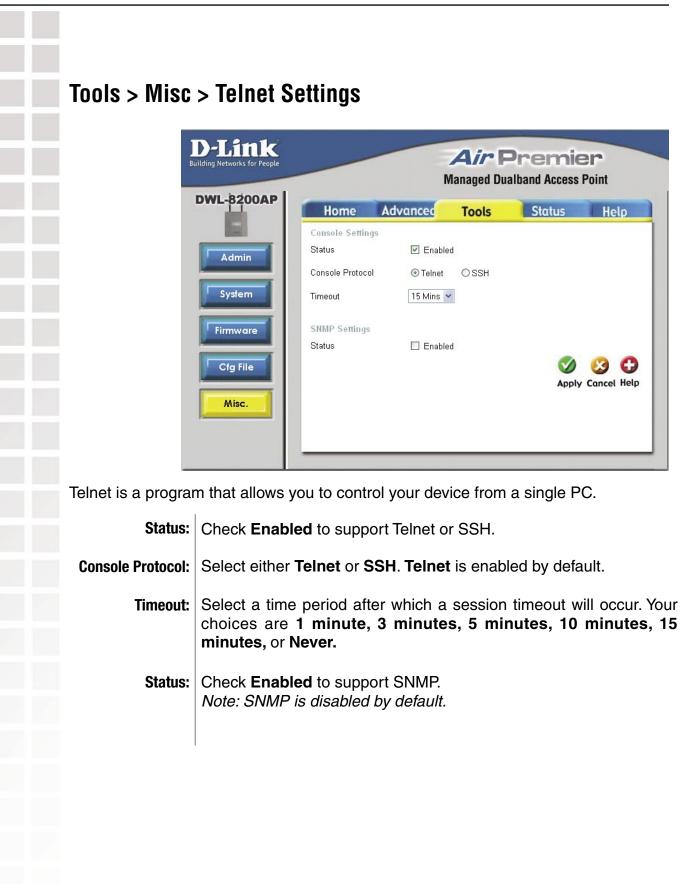
В	D-Link uilding Networks for People			Premier alband Access Point	
	Admin Dowr	nload Configuration File	Tools	Status H	lelp () Help
Update File:	Browse for the cor hard drive. Click O				
Load Settings to the Local Hard Drive:	Click OK to save th	ne selected settir	ngs to yo	ur hard drive.	

hoose file				U
Look in:	🕒 My Documents	•	🗢 🗈 💣 📰	•
My Recent Documents Desktop My Documents	My eBooks My Music My Pictures My Received Files My Web Sites			

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

D-Link Building Networks for People	Air Premier
	Managed Dualband Access Point
	Settings saved. The device is restarting. Please wait for 24 seconds. It will be back to previous page.

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

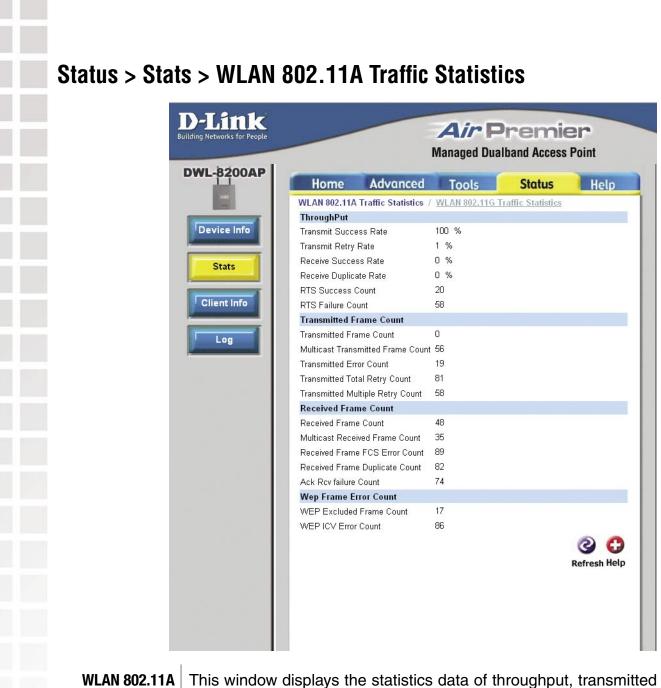


D-Link Systems, Inc.

-Link Ig Networks for People			ATT I CONTRACTOR	Premie alband Access	
3200AP	Home	Advanced	Tools	Status	Help
Ī	WLAND MAC AN WLAN1 MAC AN	Firmv oddress: 00:0f:3d:fa:6d: ddress: 00:0f:3d:fa:6d: ddress: 00:0f:3d:fa:6d:	.c0 ~ 00:0f:3	1.00 d:fa:6d:c7 d:fa:6d:cf	
ats	Ethernet Get IP From: IP address: Subnet Mask: Gateway:	Manual 192.168.0. 255.255.25 0.0.0			
	Wireless (802.1				
	SSID: Channel: Super Mode: Rate: Security Level: Wireless (802.1	default 52 Disabled Auto Open Syst	em / Encryption	Disabled	
	SSID: Channel: Super Mode: Rate: Security Level:	default 6 Disabled Auto	em / Encryption	Disabled	ŀ

Device Information:

This window displays the settings of the **DWL-8200AP**, the firmware version and the MAC address.



WLAN 802.11A Traffic Statistics:

This window displays the statistics data of throughput, transmitted frame, received frame, and WEP frame error for the IEEE 802.11a network.

Status > Stats > WLAN 802.11G Traffic Statistics

Home	Advanced	Tools	Status	Help
WLAN 802.11G	raffic Statistics /	WLAN 802.11A	Traffic Statistics	
ThroughPut				
Transmit Succes	s Rate	100 %		
Transmit Retry R	ate	1 %		
Receive Success	Rate	0 %		
Receive Duplicat	e Rate	0 %		
RTS Success Co	iunt	20		
RTS Failure Cour	nt	58		
Transmitted Fra	ime Count			
Transmitted Fran	ne Count	71		
Multicast Transm	itted Frame Count	51		
Transmitted Erro	r Count	30		
Transmitted Tota	Retry Count	1		
Transmitted Mult	iple Retry Count	9		
Received Fram	e Count			
Received Frame	Count	36		
Multicast Receive	ed Frame Count	14		
Received Frame	FCS Error Count	16		
Received Frame	Duplicate Count	99		
Ack Rcv failure C	ount	44		
Wep Frame Err	or Count			
WEP Excluded F	rame Count	11		
WEP ICV Error 0	Count	0		
				2 C
				Defeate Hal
				Refresh Hel

WLAN 802.11G Traffic Statistics:

This window displays the statistics data of throughput, transmitted frame, received frame, and WEP frame error for the IEEE 802.11g network.

T

Status >	Clier	nt Info						
	D-L1 ilding Networl	I I I I				r Pre ed Dualban		
1	DWL-82	200AP	Home	Advanced	Тос		tatus	Help
				ation 2 station(s)	_		lulus	Thesp
	Device	lafo	SSID	MAC		Authenticatio	n Signal	Power Saving Mode
	Device		Primary-SSID	00:0c:f1:6e:33:c2	G	Open System	78%	Off
	Sta	ts	Primary-SSID	00:10:00:00:00:00	G	Open System	72%	Off
Client Inform			his option to t t is a device o DOAP.)					
	ng infor	(A client DWL-820	t is a device of	on the netwo	ork ti	hat is cor	nmuni	icating wit
ne followin	ng infor	(A client DWL-820 rmation i	t is a device (JOAP .)	on the netwo	ork ti nt th	hat is cor hat is con	nmuni	icating wit
ne followin VL-8200AP	ng infor MAC:	(A client DWL-820 rmation i Displays	t is a device o JOAP .) is available fo	on the netwo or each clier ddress of the	ork ti nt th	hat is cor hat is con	nmuni	icating wit
he followin WL-8200AP	ng infor MAC: Band:	(A client DWL-820 rmation i Displays Displays	t is a device o DOAP .) is available for the MAC ac	on the netwo or each clier ddress of the s band.	ork th	hat is cor hat is con	nmuni	icating wit
e followin L-8200AP Authentic	ng infor MAC: Band: ation:	(A client DWL-820 mation i Displays Displays Displays	t is a device o JOAP .) is available for the MAC acts the wireless	on the netwo or each clier ddress of the s band. authenticatio	ork ti nt th clie	hat is cor hat is con	nmuni	icating wit

Home Advanced Tools Status H View Log First Page Previous Next Last Page Clear Log Settings Page 1 of 1 Time Type Message MON JUN 13 09:39:10 2005 System -Web login success from 192.168.0.150 MON JUN 13 09:39:02 2005 Wireless -WLAN1 Normal AP ready MON JUN 13 09:39:02 2005 Notice -Ethernet AE1 LINK DOWN MON JUN 13 09:39:02 2005 System -AP cold start with f/w version: v1.00
First Page Previous Next Last Page Clear Log Settings Page 1 of 1 Time Type Message MON JUN 13 09:39:10 2005 System Web login success from 192.168.0.150 MON JUN 13 09:39:02 2005 Wireless WLAN1 Normal AP ready MON JUN 13 09:39:02 2005 Wireless WLAN0 Normal AP ready MON JUN 13 09:39:02 2005 Notice Ethernet AE1 LINK DOWN
TimeTypeMessageMON JUN 13 09:39:10 2005SystemWeb login success from 192.168.0.150MON JUN 13 09:39:02 2005WirelessWLAN1 Normal AP readyMON JUN 13 09:39:02 2005WirelessWLAN0 Normal AP readyMON JUN 13 09:39:02 2005NoticeEthernet AE1 LINK DOWN
MON JUN 13 09:39:10 2005 SystemWeb login success from 192.168.0.150 MON JUN 13 09:39:02 2005 WirelessWLAN1 Normal AP ready MON JUN 13 09:39:02 2005 WirelessWLAN0 Normal AP ready MON JUN 13 09:39:02 2005 NoticeEthernet AE1 LINK DOWN

Help **D-Link Air** Premier Building Networks for People **Managed Dualband Access Point** DWL-8200AP Status Home Advanced Tools Help Home Setup Wizard Wireless LAN Settings Advanced • Performance • Filters Encryption Grouping DHCP Server Tools • Administrator Settings System Settings · Firmware Upgrade Configuration File • Misc. Status Device Information <u>Statistics</u> <u>Client Info</u> FAQs

Help: Click on any item in the Help screen for more information.