

DAP-2360 Release 1.00

AirPrimier N PoE Access Point

User Manual

Business Class Networking

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Package Contents

- D-Link DAP-2360 AirPremier N Single Band PoE Access Point
- Power Adapter
- CAT5 Ethernet Cable
- CD-ROM with User Manual
- Quick Install Guide
- 2 Detachable Antennas



Note: Using a power supply with a different voltage rating than the one included with the DAP-2360 will cause damage and void the warranty for this product.

System Requirements

- Computers with Windows[®], Macintosh[®], or Linux-based operating systems with an installed Ethernet Adapter
- Internet Explorer Version 7.0 or Firefox 3.0 and Above (for configuration)

Introduction

The DAP-2360 802.11n 2.4GHZ AP increases productivity by allowing you to work faster and more efficiently. With the DAP-2360, bandwidth-intensive applications like graphics or multimedia will benefit significantly because large files are now able to move across the network quickly.

The DAP-2360 is capable of operating in one of four different wireless networking modes; access point, WDS (Wireless Distribution System) with AP, WDS, or Wireless Client mode.

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 DAP-2360 providing data transfer rates up to 300Mbps. (The 802.11n standard is backwards compatible with 802.11g, and 802.11b devices.)

WPA/WPA2 is offered in two flavors: Enterprise (used for corporations) and Personal (used for home users).

WPA-Personal and WPA2-Personal are directed towards 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 at both the client and access point, access is then 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.

WPA-Enterprise and WPA2-Enterprise are ideal for businesses that already have existing security infrastructures established. 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 requested to enter a username with a password. If the new client is authorized by the administration, and enters the correct username and password, then access is then granted. In the case where an employee leaves the company, the network administrator is able to remove the previous employee from the authorized list to avoid compromising the network.

EAP (Extensible Authentication Protocol) is available through the Windows[®] XP operating system. You will need to use the same type of EAP protocol on all devices in your network when using the 802.1x feature.

*Maximum wireless signal rate derived from IEEE Standard 802.11 specifications. Actual data throughput may vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead can lower actual data throughout rate.

Features

- Four different operation modes Capable of operating in one of four different operation modes to meet your wireless networking needs: Access Point, WDS with AP, WDS, or Wireless Client.
- Faster wireless networking with the 802.11n standard to provide a maximum wireless signal rate of up to 300 Mbps*.
- Compatible with the 802.11b standard to provide a wireless data rate of up to 11 Mbps, allowing you to migrate your system to the 802.11n and 802.11g standards on your own schedule without sacrificing connectivity.
- Better security with WPA The DAP-2360 can securely connect wireless clients on the network using WPA (Wi-Fi Protected Access) to provide a much higher level of security for your data and communications than its previous versions.
- **AP Manager II management software** The real-time display of the network's topology and AP's information makes network configuration and management quick and simple.
- **SNMP for management** The DAP-2360 is not just fast, but also supports SNMP v.3 for better network management. Superior wireless AP manager software is bundled with the DAP-2360 for network configuration and firmware upgrade. Systems administrators can also set up the DAP-2360 easily with the Web-based configuration. A D-Link D-View 6.0 module will be downloadable for network administration and real-time network traffic monitoring with D-Link D-View 6.0 software.
- Utilizes OFDM technology (Orthogonal Frequency Division Multiplexing).
- Supports one 10/100/1000M Ethernet port.
- Operates in the 2.4~2.5 GHz frequency ranges.
- Web-based interface for managing and configuring.

*Maximum wireless signal rate derived from IEEE Standard 802.11 specifications. Actual data throughput may vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead can lower actual data throughout rate.

Wireless Basics

D-Link wireless products are based on industry standards to provide high-speed wireless connectivity that is easy to use within your home, business or public access wireless networks. D-Link wireless products provides you with access to the data you want, whenever and wherever you want it. Enjoy the freedom that wireless networking can bring to you.

WLAN use is not only increasing in both home and office environments, but in public areas as well, such as airports, coffee shops and universities. Innovative ways to utilize WLAN technology are allowing people to work and communicate more efficiently. Increased mobility and the absence of cabling and other types of fixed infrastructure have proven to be beneficial to many users.

Wireless adapter cards used on laptop and desktop systems support the same protocols as Ethernet adapter cards, allowing wireless users to use the same applications as those used on a wired network.

People use WLAN technology for many different purposes:

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

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

Installation and network expansion - by avoiding the complications of troublesome cables, a WLAN system can be fast and easy during installation, especially since it can eliminate the need to pull cable through walls and ceilings. Wireless technology provides more versatility by extending the network beyond the home or office.

Inexpensive solution - wireless network devices are as competitively priced as conventional Ethernet network devices. The DAP-2360 saves money by providing users with multi-functionality configurable in four different modes.

Scalability - Configurations can be 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 DAP-2360 Wireless Access Point utilizes the 802.11b, 802.11g, and 802.11n standards.

The IEEE 802.11n standard is an extension of the 802.11b, and 802.1g standards that came before it. It increases the maximum wireless signal rate up to 300 Mbps* within 2.4 GHz bands, 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 simultaneously transmitted at different frequencies to the receiver. OFDM reduces the amount of crosstalk (interference) in signal transmissions.

The D-Link DAP-2360 will automatically sense the best possible connection speed to ensure the greatest possible speed and range.

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

*Maximum wireless signal rate derived from IEEE Standard 802.11 specifications. Actual data throughput may vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead can lower actual data throughout rate.

Wireless Installation Considerations

The D-Link AirPremier N 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 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 the range. Try to position access points, wireless routers, 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 in not in use.

Four Operational Modes

Operation Mode (Only supports 1 mode at a time)	Function
Access Point (AP)	Create a wireless LAN
WDS with AP	Wirelessly connect multiple networks while still functioning as a wireless AP
WDS	Wirelessly connect multiple networks
Wireless Client	AP acts as a wireless network adapter for your Ethernet-enabled device

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 Install Guide included with your router.
- 4. If you are connecting a desktop computer to your network, install a wireless PCI adapter into an available PCI slot on your desktop computer.
- 5. Install the drivers for your wireless CardBus adapter into a laptop computer.

Connect one end of an Ethernet cable (included with your package) to the LAN port on the DAP-2360 and the other end of the Ethernet cable to your computer. The AP can be powered on by the power adapter shipped with the AP.

Configuration

To configure the DAP-2360, use a computer that is connected to the DAP-2360 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, Mozilla Firefox).

Type the IP address and http port of the DAP-2360 in the address field (http://192.168.0.50) and press Enter. Make sure that the IP addresses of the DAP-2360 and your computer are in the same subnet.



Note: If you have changed the default IP address assigned to the DAP-2360, make sure to enter the correct IP address.

Enter the user name (**admin**) and your password. Leave the password field blank by default, and click **Login**.

Link		DAP-2
LOGIN		
Login to the Access F	oint: User Name Password Login	

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

After successfully logging into the DAP-2360 the following screen will appear:

D-Link	nance 🔻 📙 Config	uration 👻 💝 System	🙋 Logout	DAP-2360
DAP-2360 E Basic Settings	System Inform	ation		
Status	Model Name Firmware Version System Name Location System Time Up Time Operation Mode MAC Address IP Address	DAP-2360 3.00 10:42:17 03/16/2009 D-Link DAP-2360 01/01/2000 00:26:33 0 Days, 00:26:34 Access Point 00:22:b0:dc:5a:67 192.168.0.50		

When making changes on most of the configuration screens in this section, use the **Apply** button at the bottom of each screen to save your configuration changes.

Apply

Click the **Apply** button to configure changes.

Home > Basic Settings Wireless Access Point mode

Wireless Band: 2.4 GHz D-Link[®] **DAP-2360** 🚽 Configuration 🔻 System Maintenance 🔻 Mode: Select Access Point from the pull-down menu. PAP-2360 Wireless Settings Basic Settings The other three choices are WDS with AP. Mireless Wireless Band LAN WDS, and Wireless Client. Mode Access Point 🗄 🃁 Advanced Settings 🗄 ੱ Status Network Name (SSID) dlink Network Name | Service Set Identifier (SSID) is the name Enable 💌 SSID Visibility (SSID): designated for a specific wireless local area Auto Channel Selection Enable 🔽 Channel network (WLAN). The SSID's factory default Channel Width 20 MHz setting is dlink. The SSID can be easily changed Authentication Open System × to connect to an existing wireless network or to Key Settinas establish a new wireless network. The SSID can Oisable OEnable Encryption be up to 32 characters and is case-sensitive. Key Type HEX Key Size 64 Bits 😒 Key Index(1~4) Network Kev SSID Visibility: Enable or Disable SSID visibility. Enabling this Confirm Key feature broadcasts the SSID across the network. thus making it visible to all network users. Save Auto Channel | Enabling this feature automatically selects the channel that provides the best wireless Selection: performance. Enable is set by default. The channel selection process only occurs when the AP is booting up.

Channel: All devices on the network must share the same channel. To change the channel, first toggle the Auto Channel Selection setting to **Disable**, and then use the pull-down menu to make the desired selection. *Note:* The wireless adapters will automatically scan and match the wireless settings. Channel Width: Allows you to select the channel width you would like to operate in. Select 20 MHz if you are not using any 802.11n wireless clients. Auto 20/40 MHz allows you to connect to both 802.11n and 802.11b/g wireless devices on your network.

Authentication:Use the pull-down menu to choose Open System, Shared Key, WPA-Personal, or WPA-Enterprise.
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. If multi-SSID is enabled,
this option is not available.
Select WPA-Personal to secure your network using a password and dynamic key changes. No RADIUS server is
required.

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

WDS with AP mode

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±-6

In WDS with AP mode, the DAP-2360 wirelessly connects multiple networks while still functioning as a wireless AP.

Wireless Band: 2.4GHz.

- Mode: WDS with AP mode is selected from the pull-down menu.
- Network Name
(SSID):Service Set Identifier (SSID) is the name designated for a
specific wireless local area network (WLAN). The SSID's
factory default setting is **dlink**. The SSID can be easily
changed to connect to an existing wireless network or to
establish a new wireless network.
- **SSID Visibility:** Enable or Disable SSID visibility. Enabling this feature broadcasts the SSID across the network, thus making it visible to all network users.
- Auto Channel Selection: Enabling this feature automatically selects the channel that will provide the best wireless performance. This feature is not supported in WDS with AP mode. The channel selection process only occurs when the AP is booting up.

a <u>K</u> Mainten bettings reless N ced Settings	Ance - Configurat		4	Logout 🕜 I
iettings reless N ced Settings	Wireless Band			
reless N ced Settings		2.4GHz 💌		
ced Settings	Mode			
2772	modo	WDS with AP		
	Network Name (SSID)	dlink		
	SSID Visibility	Enable 🔽		
	Auto Channel Selection	Disable 💌		
	Channel	1 💌		
	Channel Width	20 MHz 🗸		
	WDS			
	Remote AP MAC Address			
	1. 2	. 3.		4.
	Site Survey			
	Site Survey			Scan
	CH Signal	BSSID Security	/ SS	
		booto bocantj		
	Authentication	Open System 💉		
	Key Settings			
	Encryption	⊙Disable ○Enable		
	Key Type	HEX Y	Key Size	64 Bits
	Key Index(1~4)	1 💌	NOY OLD	
	Network Key			
	Confirm Key			

- **Channel:** All devices on the network must share the same channel. To change the channel, use the pull-down menu to make the desired selection. (Note: The wireless adapters will automatically scan and match the wireless settings.)
- Channel Width: Allows you to select the channel width you would like to operate in. Select 20 MHz if you are not using any 802.11n wireless clients. Auto 20/40 MHz allows you to connect to both 802.11n and 802.11b/g wireless devices on your network.

- **Remote AP MAC** Address: Addresses of the APs on your network that will serve as bridges to wirelessly connect multiple networks.
 - Site Survey: Click on the Scan button to search for available wireless networks, then click on the available network that you want to connect with.

Authentication: Use the pull-down menu to choose Open System, Shared Key, or WPA-Personal.

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. If multi-SSID is enabled, this option is not available.

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

WDS mode

In WDS mode, the DAP-2360 wirelessly connects multiple networks, without functioning as a wireless AP.

Wireless Band: 2.4GHz.

- Mode: WDS is selected from the pull-down menu.
- Network Name (SSID): Service Set Identifier (SSID) is the name designated for a specific wireless local area network (WLAN). The SSID's factory default setting is **dlink**. The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network.
- **SSID Visibility:** Enable or Disable SSID visibility. Enabling this feature broadcasts the SSID across the network, thus making it visible to all network users.
- Auto Channel Enabling this feature automatically selects **Selection:** the channel that will provide the best wireless performance. This feature is not supported in WDS mode.
 - **Channel:** All devices on the network must share the same channel. To change the channel, use the pull-down menu to make the desired selection.



Channel Width: Use the pull-down menu to choose 20 MHz or Auto 20/40 MHz.

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

Site Survey: Click on the Scan button to search for available wireless networks, then click on the available network that you want to connect with.

Authentication:Use the pull-down menu to choose Open System, Shared Key, or WPA-Personal.
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 WPA-Personal to secure your network using a password and dynamic key changes. No RADIUS server is
required.

Wireless Client mode

Wireless Band:	2.4 GHz	D-Link				DAP-2360
		🚯 Home 🔏 Maintenanc	e 🔻 📙 Configuratio	on 🔻 👙 System	🛛 🖉 Logout	Melp
Mode:	Wireless Client is selected from the pull-down	DAP-2360 Basic Settings	Wireless Settings			
	menu.	Wireless LAN	Wireless Band Mode	2.4GHz V Wireless Client V		
Network Neme		È filo Advanced Settings È filo Status	Network Name (SSID)	dlink		
Network Name	······································		SSID Visibility	Enable 😒		
(SSID):	for a specific wireless local area network (WLAN).		Auto Channel Selection	Disable 🔽		
	The SSID's factory default setting is dlink . The SSID		Channel Channel Width	1 × 20 MHz ×		
	can be easily changed to connect to an existing wireless network.		Site Survey			
	wireless network.		CH Signal B	BSSID Security	SSID	Scan
	This option is unavailable in Wireless Client mode.			JUDIE Jeconcy	3315	
SSID Visibility:	This option is unavailable in wheless cheft mode.					
Auto Channel	Enabling this feature automatically selects the channel					
Selection:	that will provide the best wireless performance. This					
	feature is not supported in Wireless Client mode.		Authentication	Open System		
	······		Key Settings			
Channel:			Encryption Key Type	O Disable O Enable K K K K	Key Size 64 Bits	
	the AP that the DAP-2360 is connected to when set		Key Index(1~4)	1 😒		
	to Wireless Client mode.		Network Key			
			Confirm Key			
Channel Width:	Use the pull-down menu to choose 20 MHz or Auto					Save
	20/40 MHz.					
Site Survey:	Click on the Scan button to search for available wireless with.	s networks, then clic	k on the availat	ble network that y	you want to o	connect
Authentication:	Use the pull-down menu to choose Open System or V	VPA-Personal				
	Select Open System to communicate the key across t					
						au tina al
	Select WPA-Personal to secure your network using a	password and dyna	amic key chang	es. No RADIUS	server is re	quirea.

Open System/Shared Key Authentication

- **Encryption:** Use the radio button to disable or enable encryption.
- Key Type*: Select HEX or ASCII.
- Key Size: Select 64 Bits or 128 Bits.
- Key Index (1-4): Select the 1st through the 4th key to be the active key.
 - **Key:** Input up to four keys for encryption. You will select one of these keys in the Key Index pull-down menu.

D-Link			DAP-2360
🔹 Home 🕺 Mainte	nance 🔻 🛛 🚪 Configural	iion 🔻 🛛 芝 System	🛛 🙋 Logout 🛛 🖉 Helj
DAP-2360 E @Basic Settings	Wireless Settings	3	
	Wireless Band	2.4GHz 🐱	
🗉 📁 Advanced Settings	Mode	Access Point 💌	
🗄 📁 🎾 Status	Network Name (SSID)	dlink	
	SSID Visibility	Enable 🐱	
	Auto Channel Selection	Enable 💌	
	Channel	1 🛩	
	Channel Width	20 MHz	
	Authentication	Open System	
	Key Settings		
	Encryption	⊙ Disable ○ Enable	
	Кеу Туре	HEX 🔽 Key Si	ze 64 Bits 💌
	Key Index(1~4)	1 💌	
	Network Key		
	Confirm Key		
			Save

**Hexadecimal (HEX) digits consist of the numbers 0-9 and the letters A-F.

*ASCII (American Standard Code for Information Interchange) is a code that represents English letters using numbers ranging from 0-127.

WPA-Personal authentication

WPA Mode:	When WPA-Personal is selected for Authentication type, you must also select a WPA mode from the pull-	D-Link			ſ	DAP-2360
	down menu: AUTO (WPA or WPA2), WPA2 Only, or WPA Only. WPA and WPA2 use different algorithms. AUTO (WPA or WPA2) allows you to use both WPA and WPA2.	Home Maintenan DAP-2360 DBasic Settings Wireless LAN Advanced Settings Status	ce Configurat Wireless Settings Wireless Band Mode Network Name (SSID)	2.4GH2 V Access Point V	2 Logout	Pelp
Cipher Type:	When you select WPA-Personal , you must also select AUTO, AES , or TKIP from the pull down menu.		SSID Visibility Auto Channel Selection Channel Channel Width	Enable V Enable V 1 V 20 MHz V		
Group Key Update:	Select the interval during which the group key will be valid. The default value of 1800 is recommended.		Authentication PassPhrase Settings WPA Mode Cipher Type	WPA-Personal V AUTO (WPA or WPA2) V Auto V Group Key Update	(nterval 1800 (Sec	onds)
PassPhrase:	When you select WPA-Personal , please enter a PassPhrase in the corresponding field.		PassPhrase Confirm PassPhrase			Save

WPA-Enterprise authentication

WPA Mode:	When WPA-Enterprise is selected, you must also	D-Link [®]		DAP-2360
	select a WPA mode from the pull-down menu: AUTO	🚯 Home 🌋 Maintenanc	e 🔻 📕 Configurati	on 🔻 🛸 System 🗖 Logout 😰 Help
	(WPA or WPA2), WPA2 Only, or WPA Only. WPA	DAP-2360	ooniiguraa	
	and WPA2 use different algorithms. AUTO (WPA or	B Basic Settings	Wireless Settings	
	WPA2) allows you to use both WPA and WPA2.	Wireless	Wireless Band	2.4GHz 💌
	WFAZ) allows you to use both WFA and WFAZ.	🕀 🃁 Advanced Settings	Mode	Access Point 👻
		🗄 🃁 Status	Network Name (SSID)	dink.
Cipher Type:	When WPA-Enterprise is selected, you must also		SSID Visibility	Enable 😒
	select a cipher type from the pull-down menu: Auto ,		Auto Channel Selection	Enable 💌
	AES, or TKIP.		Channel	1 🐋
			Channel Width	20 MHz 💙
	.		Authentication	WPA-Enterprise 💌
Group Key	Select the interval during which the group key will		RADIUS Server Settings WPA Mode	AUTO (WPA or WPA2)
Update	be valid. 1800 is the recommended value as a lower		Cipher Type	Auto Group Key Update Interval 1800 (Seconds)
Interval [.]	interval may reduce data transfer rates.		Network Access Protec	tion
interval.			Network Access Protection	⊙ Disable ○ Enable
			Primary RADIUS Server	
Network	Enable or disable Microsoft Network Access		RADIUS Server	RADIUS Port 1812
Access	Protection.		RADIUS Secret	
Protection:				Save
				Save
		,		
RADIUS	Enter the IP address of the RADIUS server.			
Server:				
	Enter the RADIUS port.			
Port:				
RADIUS	Enter the RADIUS secret.			
Secret:				
356181.				

LAN

LAN is short for Local Area Network. This is considered your internal network. These are the IP settings of the LAN interface for the DAP-2360. 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 IP (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 DAP-2360. When **Dynamic IP (DHCP)** is selected, the other fields here will be grayed out. Please allow about 2 minutes for the DHCP client to be functional once this selection is made.
- **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.

SubnetEnter the subnet mask. All devices in the networkMask:must share the same subnet mask.

Default Enter the IP address of the gateway in your network. If there is a gateway in your network, please enter an IP address within **Gateway:** the range of your network.



Home > Advanced Settings Performance

D-Link

- Wireless: Use the pull-down menu to turn the wireless function **On** or **Off**.
- Wireless Mode: The different combination of clients that can be supported include Mixed 802.11n, 802.11g and 802.11b, Mixed 802.11g and 802.11b and 802.11n Only in the 2.4 GHz band. Please note that when backwards compatibility is enabled for legacy (802.11 g/b) clients, degradation of 802.11n (draft) wireless performance is expected.
 - Data Rate*: Indicate the base transfer rate of wireless adapters on the wireless LAN. The AP will adjust the base transfer rate depending on the base rate of the connected device. If there are obstacles or interference, the AP will step down the rate. This option is enabled in Mixed 802.11g and 802.11b mode. The choices available are Best (Up to 54), 54, 48, 36, 24, 18, 12, 9, 6, 11, 5.5, 2 or 1.



*Maximum wireless signal rate derived from IEEE Standard 802.11 specifications. Actual data throughput may vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead can lower actual data throughout rate.

DAP-2360

Beacon Interval (25-500):	Beacons are packets sent by an access point to synchronize a wireless network. Specify a value in milliseconds. The default (100) is recommended. Setting a higher beacon interval can help to save the power of wireless clients, while setting a lower one can help a wireless client connect to an access point faster.
DTM Interval (1-15):	Select a Delivery Traffic Indication Message setting between 1 and 15 . 1 is the default setting. DTIM is a countdown inform- ing clients of the next window for listening to broadcast and multicast messages.
Transmit Power:	This setting determines the power level of the wireless transmission. Transmitting power can be adjusted to eliminate overlapping of wireless area coverage between two access points where interference is a major concern. For example, if wireless coverage is intended for half of the area, then select 50% as the option. Use the pull-down menu to select 100% , 50% , 25% , or 12.5% .
WMM (Wi-Fi Multimedia):	WMM stands for Wi-Fi Multimedia. Enabling this feature will improve the user experience for audio and video applications over a Wi-Fi network.
Ack Time Out (2.4 GHZ, 64~200) :	To effectively optimize throughput over long distance links enter a value for Acknowledgement Time Out between 64 to 200 microseconds in the 2.4 GHz in the field provided.
Short GI:	Select Enable or Disable . Enabling a short guard interval can increase throughput. However, be aware that it can also increase the error rate in some installations due to increased sensitivity to radio-frequency installations.
IGMP Snooping:	Select Enable or Disable . Internet Group Management Protocol allows the AP to recognize IGMP queries and reports sent between routers and an IGMP host (wireless STA). When IGMP snooping is enabled, the AP will forward multicast packets to an IGMP host based on IGMP messages passing through the AP.
Link Integrity:	Select Enable or Disable . If the Ethernet connection between the LAN and the AP is disconnected, enabling this feature will cause the wireless segment associated with the AP to be disassociated from the AP.
Connection Limit:	Select Enable or Disable . This is an option for load balancing. This determines whether to limit the number of users accessing this device. The exact number is entered in the User Limit field below. This feature allows the user to share the wireless network traffic and the client using multiple APs. If this function is enabled, when the number of users exceeds this value, the DAP-2360 will not allow clients to associate with the AP.
User Limit (0-64):	Set the maximum amount of users that are allowed access (0-64 users). To use this feature, the Connection Limit above must be enabled. For most users, a limit of 10 is recommended. The default setting is 20.

Multi-SSID

📄 Qo

The device supports up to four multiple Service Set Identifiers. You can set the Primary SSID in the **Basic** > **Wireless** section. The SSID's factory default setting is **dlink**. The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network.

Enable	Check to enable support for multiple SSIDs.
Multi-SSID:	

- **Band:** This read-only value is the current band setting.
- Index: You can select up to three multi-SSIDs. With the Primary SSID, you have a total of four multi-SSIDs.
- **SSID:** Service Set Identifier (SSID) is the name designated for a specific wireless local area network (WLAN). The SSID's factory default setting is **dlink**. The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network.

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	Multi-SSID Sett	inae				
ngs s						_
	Enable Multi-SSID	Enable F	riority			
Settings	Wireless Settings	1				
ance ID	Band	2:4 GHz 💟				
	Index	Primary SSI	DM			
1	SSID	dlink				
e	SSID Visibility	Enable 😒				
Gerver	Security	Open Syste	m 💉			
	Priority	0 🗸				
	WMM (Wi-Fi Multimedia	a) Enable 😒				
	L					
					Ad	d
						_
	Index SS	ID	Band	Encryption	Delete	
	Primary SSID di	ink	2.4 GHz	None		

- **SSID Visibility:** Enable or Disable SSID visibility. Enabling this feature broadcasts the SSID across the network, thus making it visible to all network users.
 - Security: The Multi-SSID security can be **Open System**, **WPA-Persona**l, or **WPA-Enterprise**. For a detailed description of the Open System parameters please go to page 23. For a detailed description of the WPA-Personal parameters please go to page 24. For a detailed description of the WPA-Enterprise parameters please go to page 25.

WMM (Wi-Fi Multimedia):	Select Enable or Disable.
Encryption:	When you select Open System , toggle between Enable and Disable . If Enable is selected, the Key Type, Key Size, Key Index (1~4), Key, and Confirm Keys must also be configured.
Key Type:	Select HEX or ASCII.
Key Size:	Select 64 Bits or 128 Bits.
Key Index (1-4):	Select from the 1st to 4th key to be set as the active key.
Key:	Input up to four keys for encryption. You will select one of these keys in the Key Index pull-down menu.
WPA Mode:	When you select either WPA-Personal or WPA-Enterprise , you must also choose a WPA mode from the pull-down menu: AUTO (WPA or WPA2) , WPA2 Only , or WPA Only . WPA and WPA2 use different algorithms. AUTO (WPA or WPA2) allows you to use both WPA and WPA2. In addition, you must configure Cipher Type, and Group Key Update Interval.
Cipher Type:	Select Auto, AES, 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 seconds is recommended.
PassPhrase:	When you select WPA-Personal , please enter a PassPhrase in the corresponding field.
Confirm PassPhrase:	When you select WPA-Personal , please re-enter the PassPhrase entered in the previous item in the corresponding field.
RADIUS Server:	When you select WPA-Enterprise , enter the IP address of the RADIUS server. In addition, you must configure RADIUS Port and RADIUS Secret.
RADIUS Port:	Enter the RADIUS port.
RADIUS Secret:	Enter the RADIUS secret.

VLAN VLAN List

The DAP-2360 supports VLANs. VLANs can be created with a Name and VID. Mgmt (TCP stack), LAN, Primary/ Multiple SSID, and WDS connection can be assigned to VLANs as they are physical ports. Any packet which enters the DAP-2360 without a VLAN tag will have a VLAN tag inserted with a PVID.

The VLAN List tab displays the current VLANs.

VLAN Status: Use the radio button to toggle between Enable or Disable. Next, go to the Add/Edit VLAN tab to add or modify an item on the VLAN List tab.

D-Link		DAP-2360
👌 Home 🥻 Maintenanc	e 👻 🔒 Configuration 👻 🏐 System 🛛 🙋 Logout	🕐 Help
DAP-2360	VLAN Settings	
Wireless	VLAN Status : ODisable OEnable Save Save	
Performance Multi-SSID	VLAN List Port List Add/Edit VLAN PVID Setting	
	VID VLAN Name Untag VLAN Ports Tag VLAN Ports Mgmt, LAN, Primary, S-1,	Edit Delete
	1 default S-2, S-3, W-1, W-2, W- 3, W-4	🕑 <u>1</u>
DHCP Server		

Port List

The Port List tab displays the current ports. If you want to configure the guest and internal networks on a Virtual LAN (VLAN), the switch and DHCP server you are using must also support VLANs. As a prerequisite step, configure a port on the switch for handling VLAN tagged packets as described in the IEEE 802.1Q standard.

VLAN Status:	Use the radio button to toggle to Enable. Next, go to the Add/Edit VLAN tab to add or modify an item on the VLAN List tab.
Port Name:	The name of the port is displayed in this column.
Tag VID:	The Tagged VID is displayed in this column.
Untag VID:	The Untagged VID is displayed in this column.
PVID:	The Port VLAN Identifier is displayed in this column.



Add/Edit VLAN

The **Add/Edit VLAN** tab is used to configure VLANs. Once you have made the desired changes, click the **Apply** button to let your changes take effect.

VLAN Status:	Use the radio button to toggle to Enable.
VLAN ID:	Provide a number between 1 and 4094 for the Internal VLAN.
VLAN Name:	Enter the VLAN to add or modify.

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DAP-2360	VLAN Settings	
Basic Settings Wireless LAN Advanced Settings Performance Multi-SSID	VLAN Status : Disable Enable Save VLAN Mode : Static VLAN List Port List Add/Edit VLAN PVID Setting	
VLAN	VLAN ID (VID) VLAN Name	
OoS OoS OoS Filters Status	Port Select All Mgmt LAN Untag All Tag All Not Member All MSSID Port Select All Primary S-1 S-2 S-3 Untag All Tag All Not Member All	
	WDS Port Select All W-1 W-2 W-3 W-4 Untag All O	=
		Save

PVID Setting

The **PVID Setting** tab is used to enable/disable the Port VLAN Identifier Auto Assign Status as well as to configure various types of PVID settings. Click the **Apply** button to let your changes take effect.

VLAN Status:	Use the radio button to toggle between Enable and Disable .

PVID Auto Assign Status: Use the radio button to toggle PVID auto assign status to Enable.

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DAP-2360	VLAN Settings	
Basic Settings Wireless LAN Advanced Settings	VLAN Status : O Disable O Enable VLAN Mode : Static	
Performance Multi-SSID VLAN	VLAN List Port List Add/Edit VLAN PVID Setting	
Intrusion Schedule GoS OHCP Server	PVID Auto Assign Status Disable Enable	
	Port Mgmt LAN PVID 1 1	
	MSSID Port Primary S-1 S-2 S-3 PVID 1 1 1	_
	WDS Port W-1 W-2 W-3 W-4 PVID 1 1 1 1	
	e	Save

Intrusion

The Wireless Intrusion Protection window is used to set APs as **All**, **Valid**, **Neighborhood**, **Rogue**, and **New**. Click the **Apply** button to let your changes take effect.

- AP List: The choices include All, Valid, Neighbor, Rogue, and New.
- **Detect:** Click this button to initiate a scan of the network.



Schedule

The Wireless Schedule Settings window is used to add and modify scheduling rules on the device. Click the **Apply** button to let your changes take effect.

Wireless Schedule:	Use the pull-down menu to enable the device's scheduling feature.	-
Name:	Enter a name for the new scheduling rule in the field provided.	÷
Day(s):	Toggle the radio button between All Week and Select Day(s) . If the second option is selected, check the specific days you want the rule to be effective on.	
All Day(s):	Check this box to have your settings apply 24 hours a day.	
Wireless:	Toggle the pull-down menu between Off and On .	

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DAP-2360	Wireless Schedule Settings							
E Settings	Wireless Schedule	Disable 🐱						
Performance	Add Schedule R	ule						
VLAN	Name							
	Day(s)	🔿 All Week 💿 S	Select Day(s)					
DHCP Server		Sun Mon	Tue Wed	Thu 🗌 Fri 🗌 Sat				
⊞ j Filters ⊡ j Status	All Day(s)			20120				
	Start Time End Time		iour:minute, 24 hour til iour:minute, 24 hour til					
	Wireless	Off V	iour.minute, 24 nour ti	ne)				
		Add Clear						
	Schedule Rule L	ist						
	Name	Day(s)	Time Frame	Wireless Edit	Delete			
	L							
	-			e	Save)			
QoS

Quality of Service (QoS) enhances the experience of using a network by prioritizing the traffic of different applications.

A QoS Rule identifies a specific message flow and assigns a priority to that flow. For most applications, the priority classifiers ensure the right priorities and specific QoS Rules are not required.

QoS supports overlaps between rules. If more than one rule matches a specific message flow, the rule with the highest priority will be used.

- QoS (Quality of
Service):Enable this option if you want to allow QoS to
prioritize your traffic
Priority Classifiers.
 - **HTTP:** Allows the access point to recognize HTTP transfers for many common audio and video streams and prioritize them above other traffic. Such streams are frequently used by digital media players.



Automatic: When enabled, this option causes the access point to automatically attempt to prioritize traffic streams that it doesn't otherwise recognize, based on the behavior that the streams exhibit. This acts to de-prioritize streams that exhibit bulk transfer characteristics, such as file transfers, while leaving interactive traffic, such as gaming or VoIP, running at a normal priority.

Name:	Enter a name for the new QoS rule in the field provided.
Priority:	Use the pull-down menu to select the desired priority: Background (BK), Best Effort (BE), Video (VI), or Voice (VO).
Protocol:	Use the pull-down menu to choose the appropriate protocol used by the messages: Any, TCP, UDP, Both, IMCP, or Other.
Host 1 IP Range:	The rule applies to a flow of messages for which one computer's IP address falls within the range set here.
Host 1 Port Range:	The rule applies to a flow of messages for which host 1's port number is within the range set here when the Protocol is set to TCP , UDP , or Both .
Host 2 IP Range:	The rule applies to a flow of messages for which the other computer's IP address falls within the range set here.
Host 2 Port Range:	The rule applies to a flow of messages for which host 2's port number is within the range set here when the Protocol is set to TCP , UDP , or Both .

DHCP Server Dynamic Pool Settings

The DHCP address pool defines the range of the IP address that can be assigned to stations in the network. A Dynamic Pool allows wireless stations to receive an available IP with lease time control. If needed or required in the network, the DAP-2360 is capable of acting as a DHCP server.

Function Enable/ Disable:	Dynamic Host Configuration Protocol (DHCP) 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 DAP-2360 to function as a DHCP server.

IP AssignedInput the first IP address available for assignmentFrom:on your network.

D-Link[®] DAP-2360 Configuration PAP-2360 Dynamic Pool Settings 🗄 🃁 Basic Settings 🖻 🍯 Advanced Settings **DHCP Server Control** Performance Function Enable/Disable Disable 💙 Multi-SSID **Dynamic Pool Settings** VLAN **IP Assigned From** 📄 Intrusion - 📄 Schedule The Range of Pool (1-254) - 📄 QoS 🗄 🍘 DHCP Server Subnet Mask Dynamic Pool Setting Gateway Static Pool Setting Current IP Mapping List WINS 🗄 🧊 Filters DNS Status Domain Name Lease Time (60 - 31536000 sec) Save

Pool (1-254): assignment. IP addresses are increments of the IP address specified in the "IP Assigned From" field.

- Subnet Mask: 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.

Enter the number of IP addresses available for

WINS: Specify the Windows Internet Naming Service (WINS) server address for the wireless network. WINS is a system that determines the IP address of a network computer that has a dynamically assigned IP address.

The Range of

DNS:	Enter the IP address of the Domain Name System (DNS) server. The DNS server translates domain names such as www.dlink.com into IP addresses.
Domain Name:	Enter the domain name of the network, 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.

Static Pool Setting

The DHCP address pool defines the range of IP addresses that can be assigned to stations on the network. A static pool allows specific wireless stations to receive a fixed IP without time control.

Function Enable/ Disable: Dynamic Host Configuration Protocol (DHCP) 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 DAP-2360 to function as a DHCP server.

Assigned IP: Use the Static Pool Settings to assign the same IP address to a device every time you start up. 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. You can edit or delete the device in this list.

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DAP-2360 DAP-2360 DAP-2360 DAP-2360 Basic Settings DAP-2360	Static Pool Settings		
	DHCP Server Control Function Enable/Disable Static pool setting Computer Name Assigned IP Assigned MAC Address Subnet Mask Gateway Wins DNS Domain Name	Disable ■ □ ; ; ; ; ; 255:255:255:0 □ </td <td>Save</td>	Save

 Assigned MAC
 Enter the MAC address of the device requesting association here.

 Address:
 Define the submask of the IP address specified in the "IP Assigned From" field.

Gateway:	Specify the Gateway address for the wireless network.
WINS:	Specify the Windows Internet Naming Service (WINS) server address for the wireless network. WINS is a system that determines the IP address of a network computer with a dynamically assigned IP address, if applicable.
DNS:	Enter the Domain Name System (DNS) server address for the wireless network. The DNS server translates domain names such as www.dlink.com into IP addresses.
Domain Name:	Specify the domain name for the network.

Current IP Mapping List

This window displays information about the current **DAP-2360 D-Link** assigned DHCP dynamic and static IP address pools. Maintenance 👻 🚽 Configuration 👻 System This information is available when you enable DHCP DAP-2360 **Current IP List** server on the AP and assign dynamic and static IP E Basic Settings Advanced Settings **Current DHCP Dynamic Pools** address pools. Performance Binding MAC Addr Multi-SSID VLAN **Current DHCP** These are IP address pools the DHCP server Intrusion **Current DHCP Static Pools** Schedule Host Name Binding MAC Addres Assianed IP Addre **Dynamic Profile:** has assigned using the dynamic pool setting. QoS E DHCP Server Dynamic Pool Setting 📄 Static Pool Setting **Binding MAC** The MAC address of a device on the network 📄 Current IP Mapping List 🗄 🧉 Filters Address: that is assigned an IP address from the DHCP 🗄 🧊 Status dynamic pool. **Assigned IP** The current corresponding DHCP-assigned IP address of the device. Address: Lease Time: The length of time that the dynamic IP address will be valid. These are the IP address pools of the DHCP **Current DHCP** server assigned through the static pool Static Pools: settings. **Binding MAC** The MAC address of a device on the network that is within the DHCP static IP address pool. Address: The current corresponding DHCP-assigned static IP address of the device. Assigned IP Address: **Binding MAC** The MAC address of a device on the network that is assigned an IP address from the DHCP dynamic pool. Address: **Assigned IP** The current corresponding DHCP-assigned static IP address of the device. Address:

Filters Wireless MAC ACL

Wireless Band:	Displays the current wireless band rate.	D-Link [®]	DAP-2360
Access Control List: MAC Address:	Select Disable to disable the filters function. Select Accept to accept only those devices with MAC addresses in the Access Control List. All other devices not on the list will be rejected. Select Reject to reject the devices with MAC addresses on the Access Control List. All other devices not on the list will be accepted. Enter each MAC address that you wish to include in your filter list, and click Apply .	Home Maintenanc DAP-2360 Basic Settings Advanced Settings Advanced Settings Advanced Settings Intrusion Intrusion Schedule OAC OHCP Server Filters Wireless MAC ACL WLAN Partition Filters Status	e Configuration System Logout Help Wireless MAC ACL Settings Wireless Band Access Control List Disable MAC Address ID MAC Address Delete Current Client Information MAC Address SSID Band Authentication Signal Add
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 this list.		Save

WLAN Partition

Wireless Band:	Displays the current wireless band rate.	D-Link
Internal Station Connection:	The default value is Enable , which allows stations to inter-communicate by connecting to a target AP. When disabled, wireless stations cannot exchange data through the AP.	Home Maintenance Configuration DAP-2360 DAP-
Ethernet WLAN Access:	The default is Enable . When disabled, all data from the Ethernet to associated wireless devices will be blocked. Wireless devices can still send data to the Ethernet.	GoS GoS Wireless MAC ACL WLAN Partition Construction



Home > Status **Device Information**

Information:

Device This read-only window displays the configuration settings of the DAP-2360, including the firmware version and the device's MAC address.

D-Link [®]				DAP-2360
🔹 Home 🦷 🔏 Maintena	nce 👻 🔚 Configuration	🕶 👙 System	💋 Logout	🕡 Help
DAP-2360	Device Information			
Basic Settings Advanced Settings Advanced Settings Muti-SSD Muti-SSD VLAN GoS DOFCP Server Filters Device Information Client Information WDS Information E Log	Ethernet MAC Address: Wireless MAC Address: IP Address Subnet Mask Gateway Wireless (2.4GHz) Network Name (SSID) Channel Data Rate Security	Firmware Version:3.00 00:22:b0:dc:5a:67 Primary: 00:22:b0:dc:5a:67 192:168:0.50 255:255:255:0 N/A dlink 2 Auto None	06:22:b0:dc:5a:67	

Client Information



WDS Information

WDS	This window displays the Wireless Distribution	D-Link [®]	DAP-2360
Information:	System information for clients currently	🔌 Home 🥂 Maintenanc	e 🕶 🕌 Configuration 🕶 🥏 System 🛛 👰 Logout 🛞 Help
	connected to the DAP-2360.	DAP-2360	WDS Information
	ig information is available for each client ing with the DAP-2360.	Advanced Settings Performance Mutti-SSID VLAN VLAN Schedule OS DHCP Server Filters Status	WDS Information Channel : 2 (2.417 GHz) Name MAC Authentication Signal Status
Name:	Displays the SSID of the client.	Device Information Client Information WDS Information WDS Information Stats	
MAC:	Displays the MAC address of the client.	🖻 🃁 Log	
Authentication:	Displays the type of authentication being used.		
Signal:	Displays the client's signal strength.		
Status:	Displays the status of the power saving feature.		

Stats Ethernet

Ethernet Traffic Statistics:	This page displays transmitted and received count statistics for packets and bytes.	D-Link				DAP-2360
		Home Maintenan DAP-2360 Basic Settings Basic Settings Advanced Settings Advanced Settings VLAN VLAN Schedule QoS DHCP Server Filters Status Device Information Status Status Device Information Status Device Information Status Ethernet WLAN Ethernet WLAN Ethernet VLAN	Ce Configuration	S System 3968 4310739 0 29092 9470276 0	Clear	Refresh

WLAN

WLAN Traffic Statistics:

This page displays wireless network statistics for data throughput, transmitted and received frames, and frame errors.

			DAP-2360
nance 👻 📙 Configuration 👻	😓 System	💋 Logout	🕐 Help
WLAN Traffic Statistics Transmitted Count		Clear	Refresh
Transmitted Packet Count Transmitted Bytes Count Dropped Packet Count	2343 814707 24115		
Transmitted Retry Count Received Count Received Packet Count Received Bytes Count	0 23 13570		
Dropped Packet Count Received CRC Count Received Decryption Error Count	0 81270 0		
Received MIC Error Count Received PHY Error Count	0 29194		
	WLAN Traffic Statistics Transmitted Count Transmitted Packet Count Transmitted Bytes Count Dropped Packet Count Transmitted Retry Count Received Count Received Packet Count Received Bytes Count Dropped Packet Count Received CRC Count Received CRC Count Received MIC Error Count	WLAN Traffic Statistics Transmitted Count Transmitted Packet Count 2343 Transmitted Bytes Count 814707 Dropped Packet Count 24115 Transmitted Retry Count 0 Received Count 23 Received Packet Count 23 Received Packet Count 23 Received Bytes Count 13570 Dropped Packet Count 0 Received CRC Count 81270 Received Decryption Error Count 0 Received MIC Error Count 0	nance Configuration Clear Cle

Log View Log

View Log: The AP's embedded memory displays system and network messages including a time stamp and message type. The log information includes but is not limited to the following items: cold start AP, upgrading firmware, client associate and disassociate with AP, and web login. The web page holds up to 500 logs.



Log Settings

Log Server/IP	Enter the IP address of the server you would like to send the DAP-2360 log to.	D-Link	DAP-2360
Address:		Home X Maintenan	ice 🕶 📑 Configuration 👻 🥪 System 🛛 🙋 Logout 🕐 Help
Log Type:	Check the box for the type of activity you want to log. There are three types: System Activity, Wireless Activity, and Notice.	DAP-2360 Constraints DAP-2360 Constraints Constraints Defermance Performance Performance Nutli-SSID VLAN Defermation Clert Information Clert Information	Log Settings Log Server / IP Address Log Type System Activity Wireless Activity Notice Save

Maintenance Administrator Settings

Check one or more of the five main categories to display the various hidden administrator parameters and settings displayed on the next five pages.



Limit Administrator

D-Link

Each of the five main categories display various hidden administrator parameters and settings.

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Limit Administrator VLAN ID:	Check the box provided and the enter the specific VLAN ID that the administrator will be allowed to log in from.	DAP-2360 Dasic Settings Advanced Settings Performance Nutli-SSID VLAN Intrusion GoS	Administration Settings Limit Administrator Imit Administrator Limit Administrator VLAN ID Enable Limit Administrator IP Enable IP Range From: To:
Limit Administrator IP:	Check to enable the Limit Administrator IP address.	DHCP Server DHCP Server Differs Device Information Outro Information WDS Information Stats Device Information Device Inform	Item From To Delete
IP Range:	Enter the IP address range that the administrator will be allowed to log in from and then click the Add button.	USE VILAN	System Name Settings Login Settings Console Settings SNMP Settings Save

DAP-2360

System Name Settings

Each of the five main categories display various hidden administrator parameters and settings.

System Name:The name of the device. The default name isD-Link DAP-2360.

Location: The physical location of the device, e.g. 72nd Floor, D-Link HQ.



Login Settings

Each of the five main categories display various **DAP-2360 D-Link** hidden administrator parameters and settings. 🔏 Maintenance 👻 📙 Configuration 👻 2 Logout Help System PAP-2360 Administration Settings Basic Settings User Name: Enter a user name. The default is **admin**. Advanced Settings Limit Administrator 🔳 Performance Multi-SSID System Name Settings 🔳 VLAN **Old Password:** When changing your password, enter the old Intrusion Login Settings 🗹 Schedule password here. ---- QoS Login Name admin 🗄 🧊 DHCP Server 🗄 🃁 Filters Old Password Status New Password When changing your password, enter the new Device Information New Password: - 📄 Client Information Confirm Password password here. The password is case-sensitive. 🗄 🌈 Stats Console Settings 📃 "A" is a different character than "a." The length Ethernet WLAN SNMP Settings should be between 0 and 12 characters. E 💋 Log 📄 View Log E Log Settings Save Confirm Enter the new password a second time for **Password:** confirmation purposes.

Console Settings

Each of the five main categories display various hidden administrator parameters and settings.

Status:	Status is enabled by default. Uncheck the box to disable the console.
Console Protocol:	Select the type of protocol you would like to use, Telnet or SSH .
Timeout:	Set to 1 Min, 3 Mins, 5 Mins, 10 Mins, 15 Mins or Never .

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DAP-2360 III- Settings	Administratio	on Settings			
E Strings	Limit Administ	ator 🗖			
Multi-SSID VLAN	System Name	Settings 🔳			
	Login Settings				
	Console Settir	igs 🗹			
	Status		🗹 Enable		
Device Information Client Information	Console Protocol		⊙ Telnet ○ SSH		
WDS Information	Timeout		3 Mins 💟		
Ethernet	SNMP Setting	5			
⊡				e	Save

SNMP Settings

Each of the five main categories display various hidden administrator parameters and settings.

Status:	Check the box to enable the SNMP functions. This is enabled by default.
Public Community String:	Enter the public SNMP community string.
Private Community String:	Enter the private SNMP community string.

D-Link [®]		DAP-2360
🔹 Home 🥂 Maintenanc	e 🔻 📙 Configuration 👻 🌍 System 🛛 💋 Logout	🕐 Help
DAP-2360 Basic Settings Advanced Settings Multi-SSID VLAN Intrusion Schedule GoS DHCP Server Filters Status Device Information Client Information WDS Information WDS Information WLAN Ethernet WLAN Log Log Settings	Administration Settings	Save

Firmware and SSL Certification Upload

Upload Firmware	The current firmware version is displayed above the file location field. After downloading	D-Link	DAP-2360
From Local Hard		Home 🔏 Maintena	ince 🗸 📑 Configuration 🖌 🐳 System 🛛 🙋 Logout 📧 Help
Drive: Upload SSL Certification From Local Hard Drive:	the most recent version of firmware for the DAP-2360 from http://support.dlink.com to your local computer, use the Browse button to locate the firmware file on your computer. Click Upload to update the firmware version. Please don't turn the power off while upgrading. Click Browse to locate the SSL Certification file on your local computer. After selecting and opening the file, click Upload to upload the file to the DAP-2360.	DAP-2360 Advanced Settings Advanced Settings Multi-SSID Multi-SSID Multi-SSID Multi-SSID Device Information DHCP Server Filters Status Device Information Client Information Stats Ethernet MuLAN Log Log Settings	Firmware and SSL Certification Upload Update Firmware From Local Hard Drive Upload Firmware From File : Update SSL Certification From Local Hard Drive Upload Certificate From File : Upload Key From File :

Configuration File

Upload File:	Click the Browse button to locate a previously saved configuration file on your local computer.	D-Link Home K Maintenai	DAP-2360 nce 🔻 🔚 Configuration 👻 🌍 System 🛛 🖉 Logout 🖤 Help
Download Configuration File:	After selecting the file, click Upload to apply the configuration settings to the DAP-2360. Click Download to save the current DAP-2360 configuration to your local computer. Note that if you save one configuration with the administrator's password now, after resetting your DAP-2360, and then updating to this saved configuration file, the password will be gone.	Home Maintenat DAP-2360 DAP-2360 Basic Settings Advanced Settings Advanced Settings Multi-SSID Wulti-SSID Wulti-SSID Oos DHCP Server Gos DHCP Server Status Device Information Cient Information Status VLAN Ehremet WUS Information Status VLAN Cog VLAN Cog VLAN Cog VLAN	Image: Configuration Configuration File Image: Configuration File Image: Configuration File Upload Configuration File Image: Configuration File Image: Configuration File Upload File : Image: Configuration File Image: Configuration File Download Configuration File Image: Configuration File Image: Configuration File Load Settings to Local Hard Drive Image: Configuration File Image: Configuration File

Time and Date

Current Time:	Displays the current time and date settings.	
Time Zone:	Use the pull-down menu to select your correct Time Zone.	
Enable Daylight Saving:	Check the box to Enable Daylight Saving Time.	
Daylight Saving Offset:	Use the pull-down menu to select the correct Daylight Saving period.	E
Daylight Saving Dates:	Use the pull-down menu to select the correct Daylight Saving offset.	
Enable NTP Server:	Check to enable the AP to get system time from an NTP server.	
NTP Server:	Enter the NTP server IP address.	
Set the Date and Time Manually:	You can either manually set the time for your AP here, or you can click the Copy Your Computer's Time Settings button to copy the time from the computer you are using (Make sure that the computer's time is set correctly).	

D-Link		DAP-236	0
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DAP-2360	Time and Date Se	ttings	
Advanced Settings	Time Configuration		
	Current Time	01/01/2000 04:49:59	
	Time Zone	(GMT-08:00) Pacific Time (US & Canada); Tijuana 💌	
	Enable Daylight Saving		
	Daylight Saving Offset	+1:00	
DFILCP Server Filters Server Device Information Clent Information WDS Information	Daylight Saving Dates	Month Week Day of Week Current Time DST Start Jan 1st Sun 12 am DST End Jan 1st Sun 12 am	
E 💋 Stats	Automatic Time Confi	guration	11
	Enable NTP Server		11
E-F Log	NTP Server	Select NTP Server	
	Set the Date and Tim	e Manually	Ī
	Date And Time	Year 2009 V Month Mar V Day 16 V Hour 19 V Minute 56 V Second 15 V	
		Copy Your Computer's Time Settings	
	e.	Save	

System System Settings

Restart the Device:	Click Restart to restart the DAP-2360.
Restore to Factory Default Settings:	Click Restore to restore the DAP-2360 back to factory default settings.

Help

Help: Scroll down the Help page for topics and explanations.

Basic Settings

Wireless Settings

Allow you to change the wireless settings to fit an existing wireless network orto customize your wireless network.

Wireless Band

Operating frequency band, Choose 2.4GHz for visibility to legacy devices and for longer range, Choose 5GHz for least interference; interference can hurt performance. This AP will operate one band at a time.

Mode

Select a function mode to configure your wireless network. Function modes include AP, WDS (Wireless Distribution System) with AP, WDS and Wireless Client. Function modes are designed to support various wireless network topology and applications.

Network Name (SSID)

Also known as the Service Set Identifier, this is the name designated for a specific wireless local area network (WLAN). The factory default setting is "dlink". The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network.

SSID Visibility

Indicate whether or not the SSID of your wireless network will be broadcasted. The default value of SSID Visibility is set to "Enable," which allow wireless clients to detect the wireless network. By changing this setting to "Disable," wireless clients can no longer detect the wireless network and can only connect if they have the correct SSID entered.

Auto Channel Selection

If you check Auto Channel Scan, everytime when AP is booting up, the AP will automatically find the best channel to use. This is enabled by default.

Channel

Indicate the channel setting for the DAP-1353. By default, the AP is set to Auto Channel Scan. The Channel can be changed to fit the channel setting for an existing wireless network or to customize the wireless network.

Channel Width

Allows you to select the channel width you would like to operate in. Select 20MHz if you are not using any 802.11n wireless clients. Auto 20/40MHz allows your to use both 802.11n and non-802.11n wireless devices in your network

Authentication

For added security on a wireless network, data encryption can be enabled. There are several available Authentications type can be selected. The default value for Authentication is set to "Open System".

Open System

For Open System authentication, only the wireless clients with the same WEP key will be able to communicate on the wireless network. The Access Point will remain visible to all devices on the network.

Shared Key

For Shared Key authentication, the Access Point cannot be seen on the wireless network except to the wireless clients that share the same WEP key.

WPA-Personal/WPA2-Personal/WPA-Auto-Personal

Wi-FI Protected Access authorizes and authenticates users onto the wireless network. It uses TKIP encryption to protect the network through the use of a pre-shared key. WPA and WPA2 uses different algorithm. WPA-Auto allows both WPA and WPA2.

WPA-Enterprise/ WPA2-Enterprise/ WPA-Auto-Enterprise

WI-FI Protected Access authorizes and authenticates users onto the wireless network. WPA uses stronger security than WEP and is based on a key that changes automatically at a regular interval. It requires a RADIUS server in the network. WPA and WPA2 uses different algorithm. WPA-auto allows both WPA and WPA2.

Network Access Protection

Network Access Protection (NAP) is a feature of Windows Server 2008. NAP controls access to network resources based on a client computer's identity and compliance with corporate governance policy. NAP allows network administrators to define granular levels of network access based on who a client is, the groups to which the client belongs, and the degree to which that client is compliant with corporate governance policy. If a client is not compliant, NAP provides a mechanism to automatically bring the client back into compliance and then dynamically increase its level of network access.

Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DAP-2360. 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:
 - Internet Explorer 7.0 or higher
 - Netscape 9.0 or higher
 - Firefox 3.0 or 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.

Federal Communication Commission Interference Statement

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

- ı 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

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

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

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:

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. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This

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

device 2) this device must accept any interference, including interference that may cause undesired operation of the

This device has been designed to operate with an antenna having a maximum gain of 14.85dBi

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.

IMPORTANT NOTE:

IC Radiation Exposure Statement:

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

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設計之特性及功能。 經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更頻率、加大功率或變更原

業、科學及醫療用電波輻射性電機設備之干擾。 擾時方得繼續使用。前項合法通信,指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工 低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立即停用,並改善至無干