# **NUCLIAS CONNECT** DAP-2622 User Guide





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# Nuclias Connect Introduction

Nuclias Connect is D-Link's centralized management solution for Small-to-Medium-Sized Business (SMB) networks. Nuclias Connect makes it easier to analyze, automate, configure, optimize, scale, and secure your network — delivering the convenience of an Enterprise-wide management solution at an SMB price. Nuclias Connect gives you the financial and technical flexibility to expand from a small network to a larger one (up to 1,000 APs), while retaining a robust and centralized management system. And with its intuitive Graphical User Interface (GUI), a wealth of enhanced AP features, and a setup wizard that supports 11 languages, Nuclias Connect minimizes the hassle of deployment, configuration, and administration.

Deployable on a Windows server (or Linux via Docker), PC, or Smartphone (via lite management app) the Nuclias Connect free-to-download software is capable of managing up to 1,000 Access Points (APs) without licensing charges, coupled with an inexpensive optional hardware controller (the Hub) suitable for remote locations. Through software-based monitoring and remote management of all wireless Access Points (APs) on your network, Nuclias Connect offers tremendous flexibility compared to traditional hardware-based unified management systems. Configuration can be done remotely. Network traffic analytics are available at a glance (in whole or in part). Load Balancing, Airtime Fairness, and Localized Throttling are enabled.

Nuclias Connect supports multi-tenancy, so network admins can grant localized management authority for local networks. In addition, because APs can support 8 SSIDs per radio (16 SSIDs per dual band APs), administrators have the option of using one SSID to create a guest network for visitors.

Nuclias Connect provides direct AP discovery and provisioning when it shares the same Layer-2/Layer-3 network with a given AP, allowing users to find APs and import profiles with minimum effort, which can be applied as needed to groups or individual APs for even more effective configuration.

Since Nuclias Connect's software operates transparently on the network, an AP can be deployed anywhere in an NAT environment. Admins can provide & manage a variety of distributed deployments, including setting & admin account configuration for each deployment.

Nuclias Connect allows for multiple user authentications while enabling specific access control configurations for each SSID, giving admins the option of configuring separate internal networks for different subnets, while enabling more advanced Value-Added Services, such as Captive Portal or Wi-Fi Hotspot.

## **Nuclias Connect Key Features**

- Free-to-Download Management Software
- Searchable Event Log and Change Log
- License-Free Access Points
- Traffic Reporting & Analytics
- Authentication via Customizable Captive Portal, 802.1x and RADIUS Server, POP3, LDAP, AD
- Remote Config. & Batch Config.
- Multilingual Support
- Intuitive Interface
- Multi-Tenant & Role-Based Administration
- Payment Gateway (PayPal) Integration and Front-Desk Ticket Management

For more information on how to use Nuclias Connect with DAP-2622, please refer to the Nuclias Connect User Guide.

## Package Contents

- DAP-2622 Nuclias Connect AC1200 Wave 2 Wall-Plated Access Point
- Mounting Plate and Hardware

# **System Requirements**

- Computer with Windows<sup>®</sup>, Macintosh<sup>®</sup>, or a Linux-based operating system with an installed Ethernet Adapter
- Internet Explorer 11, Safari 7, Firefox 28, or Google Chrome 33 and above (for web-based configuration)

# **Hardware Overview**

D-Link

LEDs

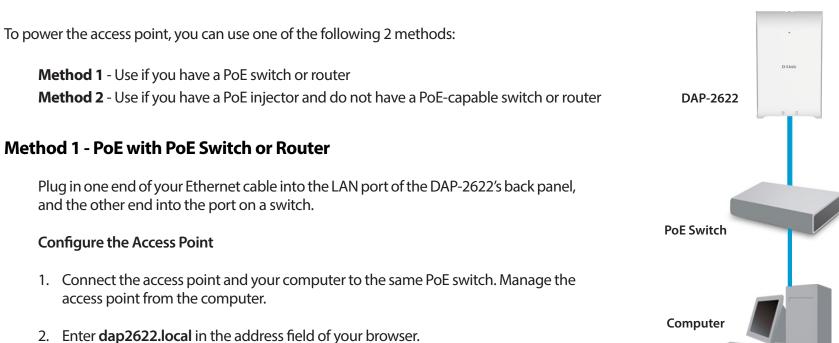
## Connections



		Solid Red	Indicates the access point has malfunctioned.
1	Power/Status	Blinking Red	This LED will blink during boot-up.
		Solid Green	Indicates that the DAP-2622 is working properly.

2	LAN (PoE) Port	Connect to a Power over Ethernet (PoE) switch or router via an Ethernet cable.
3	Lan (PoE Out) Port	Gigabit RJ-45 port for data and PSE out.
4	Ethernet LAN Port	Gigabit RJ-45 port for data.
5	Reset Button	Press and hold for five seconds to reset the access point to the factory default settings. Press and hold for ten seconds to reboot the access point.

# Basic Installation Hardware Setup



- 3. Log in to the Administration Web pages. The default login information is:
  - Username: **admin** Password: **admin**

9

#### Method 2 - PoE without PoE Switch or Router

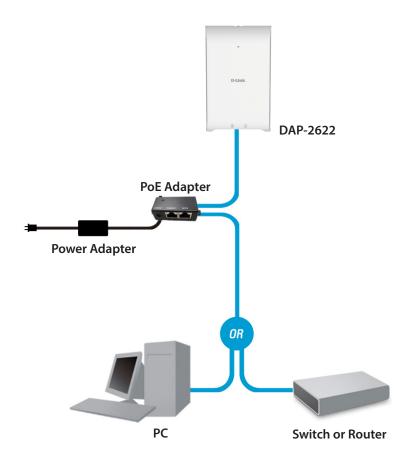
1. Connect one end of an Ethernet cable into the **Data In** port on the PoE base unit (not included) and the other end into one port on your switch, router, or computer.

2. Connect one end of an Ethernet cable into the **P+Data Out** port on the PoE base unit and the other end into the LAN (PoE) port on the access point.

3. Use the supplied power adapter. Connect the power adapter to the **Power In** receptor on the PoE adapter.

4. Connect the power cable to the power adapter and then connect the other end into a power outlet.

- 5. Enter dap2622.local in the address field of your browser.
- 6. Log in to the Administration Web pages. The default login information is: Username: **admin** Password: **admin**



# **Setup Wizard**

The first login instance displays the System Settings window which requires you to change the password used to access the web UI. Additional settings include the System Time and System Country functions.

After logging in to the user interface, fill in the New Password and Confirm New Password fields.

In the System Time function, select **Using Network Time Protocol (NTP)** or **Manually** to define the system time. If required, click the Daylight Saving Offset drop-down menu and select the value (minutes).

- Setting NTP System Time: Before trying to configure NTP, perform a ping test with the NTP server. In the NTP Server field, enter the NTP server to use. Then click the Time Zone drop-down menu and select the appropriate time zone.
- Setting System Time Manually: From the System Date drop-down menu, select the Year, Month, and Day along with the Hour and Minutes appropriate for the AP.
- Enable Daylight Saving: Click the radio button to enable the daylight saving time (DST) function. Set the DST start and end time by clicking on the drop-down menus and setting the Month, Week, Day, Hour, and Minute of the DST starting days.
- System Country: Click the drop-down menu to select your country.

Once the settings are configured, click the **Update** button to accept the configuration and proceed to the main interface menu page.

Provide syster	n Settings						
These settings app	ly to this access point						
New Password							
Confirm new passwor	d						
System Time	O Using Network Time Protocol						
	Manually						
System Date System Time(2	Feb • 13 • 2019 • 4 HR) 11 • : 8 •						
Enable Dayligh	t Saving 🔲						
DST Start(24 H	R) Second T Sunday	▼ in	Mar 🔻	at 2	• :	0 🔹	
DST End(24 H	R) First V Sunday	▼ in	Nov 🔻	at 2	۲ :	0 🔹	
DST Offset(mir	nutes) 60 🔻						
System Country Uni	ted Kingdom		¥				
Update							
opuno							

# Web User Interface

The DAP-2622 supports an elaborate web user interface where the user can configure and monitor the device. Launch a web browser, type **dap2622.local** in the address field and then press **Enter** to login. Most of the configurable settings are located in the left menu of the web GUI which contains sections called **Basic Settings**, **Advanced Settings** and **Status**.

D-Link <sup>®</sup>				DAP-2622
🔶 Home 🏾 🐔 Maintena	nce 👻 🚽 Configuration	🕶 💝 System	💋 Logout	🕐 Help
DAP-2622	System Information			
	Model Name	DAP-2622		
± j Status	Firmware Version	v1.00 18:19:55 2020/08/10		
	System Name	dap2622		
	Location			
	System Time	2020/10/21 16:23:17		
	Up Time	00:05:32		
	Operation Mode (2.4GHz)	Access Point		
	Operation Mode (5GHz)	Access Point		
	MAC Address (2.4GHz)	00:AA:BB:CC:DD:10		
	MAC Address (5GHz)	00:AA:BB:CC:DD:18		
	IP Address	192.168.0.174		

## Wireless

On the wireless settings page, you can setup the basic wireless configuration for the access point. The user can choose from 4 different wireless modes:

Access Point - Used to create a wireless LAN

WDS with AP - Used to connect multiple wireless networks while still functioning as a wireless access point

WDS - Used to connect multiple wireless networks

Wireless Client - Used when the access point needs to act as a wireless network adapter for an Ethernet-enabled device

## **Access Point Mode**

Wireless Band: Select either 2.4 GHz or 5 GHz from the drop-down menu.

**Note:** 2.4GHz and 5GHz bands should be configured individually with the following settings, each of which can have a different SSID, channel, authentication, etc.

Mode: Select Access Point from the drop-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. The SSID can be up to 32 characters and is case-sensitive.

**SSID Visibility:** Select **Enable** to broadcast the SSID across the network, thus making it visible to all network users. Select **Disable** to hide the SSID from the network.

Auto Channel Selection: This feature when enabled automatically selects the channel that provides the best wireless performance. The channel selection process only occurs when the AP is booting up. To manually select a channel, set this option to **Disable** and select a channel from the drop-down menu.

D-Link			DAP-2622
🔶 Home 🏾 🕺 Maintena	nce 🕶 📄 Configuration 👻 👙 System	💋 Logout	🕐 Help
DAP-2622 Basic Settings Wireless Advanced Settings Performance Wireless Resource Wireless Resource Wireless Resource Wireless Resource Wireless Resource Wireless Resource Wireless Resource Number Settings Charles Resource Number Settings Captive Portal Captive Portal Captive Portal Filters Filters DHCP Server Filters DHCP Server Status Device Information Client Information Statistics Log	Wireless Settings         Wireless Band       2.4GHz ▼         Operation Mode       Access Point ▼         Network Name (SSID)       dlink         SSID Visibility       Enable ▼         Auto Channel Selection       Enable ▼         Channel       6 ▼         Channel Width       Auto 20/40 MHz ▼         Authentication       Open System ▼         802.11k/vir       Disable ▼         Key Settings       Encryption         Encryption       ● Disable ● Enable         Key Index (1~4)       1 ▼         Network Key       (0-9,a-z,A-Z,~1@#\$%^&*()_	64 Bits 💙	
DAP-2622 Basic Settings Wireless LAN Performance Wireless Resource Wireless Resource Wireless Resource Wireless Resource Wireless Resource Advanced Settings Performance Wireless Resource Advanced Settings Performance Captive Portal Captive Portal Captive Portal Filters Device Information WDS Information WDS Information Statusics	Wireless Settings         Wireless Band       2.4GHz ▼         Operation Mode       Access Point ▼         Network Name (SSID)       dlink         SSID Visibility       Enable ▼         Auto Channel Selection       Enable ▼         Channel       6 ▼         Channel Width       Auto 20/40 MHz ▼         Authentication       Open System ▼         802.11k/v/r       Disable ▼         Key Settings       Encryption         Encryption       ● Disable ● Enable         Key Type       ASCII ▼         Network Key	64 Bits 💙	Save

Channel: To change the channel, first toggle the *Auto Channel Selection* setting to **Disable**, and then use the drop-down menu to make the desired selection.

Note: The wireless adapters will automatically scan and match the wireless settings.

Channel Width: Click the drop-down menu to select 20 MHz, Auto 20/40 MHz or Auto 20/40/80 MHz. 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 or 802.11a wireless devices on your network.

Authentication: Use the drop-down menu to choose Open System, Shared Key, WPA-Personal, WPA-Enterprise, or 802.1x.

- Select **Open System** to communicate the key across the network (WEP).
- 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.
- Select 802.1X if your network is using port-based Network Access Control.

**Note:** The default Open System authentication allows wireless connection without requiring user authentication. It is highly recommended that you encrypt your network using one of the security methods other than the default setting.

## WDS with AP Mode

Wireless Band: Select either 2.4GHz or 5GHz from the drop-down menu.

**Operation Mode: WDS with AP** mode is selected from the drop-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.

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.

**Channel:** All devices on the network must share the same channel. To change the channel, use the drop-down menu to make the desired selection. (**Note**: The wireless adapters will automatically scan and match the wireless settings.)

Channel Width: Click the drop-down menu to select 20 MHz, Auto 20/40 MHz or Auto 20/40/80 MHz. 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 or 802.11a wireless devices on your network.

D-Link				DAP-	2622
🛕 Home 🥻 Maintenance	- Configuration	- 🤤 System	💋 Logout	0	Help
DAP-2622	Wireless Settings		_		
- ⊯ Basic Settings Wireless	Wireless Band	2.4GHz 🗸			
IPv6	Operation Mode	WDS with AP 💙			
Advanced Settings	Network Name (SSID)	dlinkwds			
Wireless Resource	Auto Channel Selection	Enabled 💙			
Multi-SSID VLAN	Channel	6 💙			
	Channel Width	Auto 20/40 MHz 🗙			
Internal RADIUS Server     ARP Spoofing Prevention	WDS				
Bandwidth Optimization	AP MAC Address				
	Site Survey				
				Sc	an
- 10 Status	Ch Signal MAC Address	· · ·	SSID		
Device Information     Client Information	You can click Scan button to star	t.			
WDS Information     Statistics					
	Authentication	Open System 🖌			
	Key Settings				
	Encryption	Disable O Enable			
	Кеу Туре	ASCII V Key Size	64 Bits 💙		
	Key Index (1~4)	1 ¥			
	Network Key				
	Confirm Key				
		(0-9,a-z,A-Z,~!@#\$%^&*()_+`-:	={}[];":" ,./<>?)		
					ave
				2	ave

AP MAC Address: Enter the MAC address of the AP on your network that will serve as a bridge 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 to.

Authentication: Use the drop-down menu to choose Open System or WPA-Personal.

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

Note: It is highly recommended that you use WPA-Personal to encrypt your network.

## WDS Mode

Wireless Band: Select either 2.4GHz or 5GHz from the drop-down menu.

**Mode: WDS** is selected from the drop-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.

Auto Channel Selection: Enabling this feature automatically selects 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 drop-down menu to make the desired selection.

Channel Width: Click the drop-down menu to select 20 MHz, Auto 20/40 MHz or Auto 20/40/80 MHz. 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 or 802.11a wireless devices on your network.

AP MAC Address: Enter the MAC address of the AP on your network that will serve as a bridge to wirelessly connect multiple networks.

D-Link <sup>®</sup>			DAP-2622
🛕 Home 🏾 🐔 Maintenance	e 👻 🚽 Configuratio	on 👻 💝 System	😰 Logout 🛛 🕐 Help
DAP-2622	Wireless Settings		
Basic Settings Wireless LAN From Content of the second settings Fr	Wireless Band Operation Mode Network Name (SSID) Auto Channel Selection Channel Channel Width WDS AP MAC Address Site Survey Please wait	2.4GHz V WDS V dlinkwds Enabled V 6 V Auto 20/40 MHz V	] Scan
	Authentication	Open System 💙	
	Key Settings	Open System •	
	Encryption	Disable O Enable	
	Кеу Туре	ASCII 🛩 Key Size	64 Bits 💙
	Key Index (1~4)	1 ¥	
	Network Key		
	Confirm Key		
		(0-9,a-z,A-Z,~!@#\$%^&*()_+	·`-={}[[;·.''],./<>?)
			Save

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 drop-down menu to choose **Open System** or **WPA-Personal**.

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

**Note:** It is highly recommended that you use WPA-Personal to encrypt your network.

### **Wireless Client Mode**

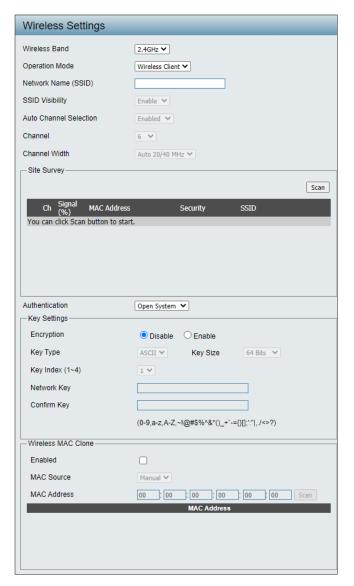
Wireless Band: Select either 2.4 GHz or 5 GHz from the drop-down menu.

Mode: Wireless Client is selected from the drop-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.
- Auto Channel Selection: Enabling this feature automatically selects the channel that will provide the best wireless performance. This feature is not supported in Wireless Client mode.
  - **Channel:** The channel used will be displayed, and matches the AP that the DAP-2622 is connected to when set to Wireless Client mode.
  - Channel Width: Click the drop-down menu to select 20 MHz, Auto 20/40 MHz or Auto 20/40/80 MHz. 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 or 802.11a wireless devices on your network.
    - 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: Will be explained in the next topic.

Check the box to enable the Wireless MAC Clone function.

Click the drop-down menu to select Auto or Manual.



## **Wireless Client Mode**

Enable: Check the box to enable the Wireless MAC Clone function.

- MAC Source: Click the drop-down menu to select Auto or Manual.
- MAC Address: When MAC Source is set to Manual, click Scan to find the MAC address to clone.

-Wireless MAC Clone	
Enabled	
MAC Source	Manual 🗸
MAC Address	00 : 00 : 00 : 00 : 00 : 00 Scan
	MAC Address
L	

## **Wireless Security**

There are mainly two forms of wireless encryption, called Wired Equivalent Privacy (WEP) and Wi-Fi Protected Access (WPA). WEP was the first security method developed. It is a low-level encryption but better than no encryption. WPA is a newer encryption standard, and with the more advanced WPA2 standard wireless networks have finally reached a point where their security is strong enough to give users peace of mind.

**Note:** The default Open System authentication allows wireless connection without requiring user authentication. It is highly recommended that you encrypt your network using one of the security methods other than the default setting.

#### Wired Equivalent Privacy (WEP)

WEP provides two variations, called Open System and Shared Key.

**Open System** will send a request to the access point and if the key used matches the one configured on the access point, the access point will return a "success" message back to the wireless client. If the key does not match the one configured on the access point, the access point will deny the connection request from the wireless client.

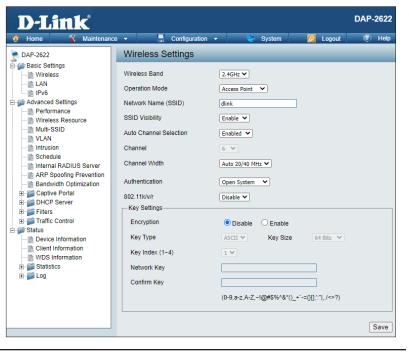
Shared Key will send a request to the access point and if the key used matches the one configured on the access point, the access point will send a challenge to the client. The client will then again send a confirmation of the same key back to the access point where the access point will either return a success or a denial packet back to the wireless client.

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 drop-down menu.

\*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.



#### Wi-Fi Protected Access (WPA / WPA2)

WPA was created by the Wi-Fi Alliance to address the limitations and weaknesses found in WEP. This protocol is mainly based on the 802.11i standard. There are also two variations found in WPA called WPA-Personal (PSK) and WPA-Enterprise (EAP).

WPA-EAP requires the user to install a RADIUS server on the network for authentication. WPA-Personal does not require the user to install a RADIUS server on the network.

WPA-PSK is a weaker form of authentication when compared with WPA-EAP, but WPA-PSK is far more secure than WEP.

WPA2 is an upgraded form of WPA. WPA2 solves some security issues found in WPA. Similar to WPA, WPA2 has two variations, called WPA2-Personal (PSK) and WPA2-Enterprise (EAP).

- WPA Mode: When WPA-Personal is selected, you must also select a WPA mode from the drop-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.
- Cipher Type: When you select WPA-Personal, you must also select AUTO, AES, or TKIP from the pull-down menu.
- Group Key Update: Select the interval during which the group key will be valid. The default value of **3600** is recommended.
  - PassPhrase: When you select WPA-Personal, please enter a passphrase in the corresponding field.

Authentication	WPA-Personal 🗙
802.11k/v/r PassPhrase Settings	Disable 🗸
WPA Mode	AUTO (WPA or WPA2) 🗸
Cipher Type	Auto  Group Key Update Interval 3600 (Sec)
Manual	O Periodical Key Change
Time Interval	1 (1~168)hour(s)
PassPhrase	
Confirm PassPhrase	
	notice: 8~63 in ASCII or 64 in Hex.
	(0-9,a-z,A-Z,~!@#\$%^&*()_+`-={}[];'.''],./<>?)
	Save

WPA Mode: When WPA-Enterprise is selected, you must also select a WPA mode from the drop-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.

Cipher Type: When WPA-Enterprise is selected, you must also select a cipher type from the drop-down menu: Auto, AES, or TKIP.

Group Key Update Interval: Select the interval during which the group key will be valid. **3600** is the recommended value as a lower interval may reduce data transfer rates.

Network Access Protection: Enable or disable Microsoft Network Access Protection.

**RADIUS Server:** Enter the IP address of the RADIUS server.

**RADIUS Port:** Enter the RADIUS port.

RADIUS Secret: Enter the RADIUS secret.

Account Server: Enter the IP address of the account server.

Account Port: Enter the account port.

Account Secret: Enter the account secret.

Wireless Settings	
Wireless Band	2.4GHz 🗸
Mode	Access Point
Network Name (SSID)	dlink
SSID Visibility	Enable 🗸
Auto Channel Selection	Enable 🗸
Channel	6 🗸
Channel Width	20 MHz 💙
Authentication	WPA-Enterprise 🗸
RADIUS Server Settings	
WPA Mode	AUTO (WPA or WPA2) V
Cipher Type	Auto V Group Key Update Interval 3600 (Sec)
Network Access Protecti	on
Network Access Protection	Disable     Cenable
Primary RADIUS Server	Setting
RADIUS Server	RADIUS Port 1812
RADIUS Secret	
	(0-9,a-z,A-Z,~!@#\$%^&*()_+`-={}[];'\:" ,./<>?)
Backup RADIUS Server S	Setting (Optional)
RADIUS Server	RADIUS Port 1812
RADIUS Secret	
	(0-9,a-z,A-Z,~!@#\$%^&*()_+`-={}[];'\:" ,./<>?)
Primary Accounting Serv	
Accounting Mode	Disable V
Accounting Server	Accounting Port 1813
Accounting Secret	
Backup Accounting Serv	(0-9,a-z,A-Z,~!@#\$%^&*()_+`-={}[];'\:" ,./<>?)
Accounting Server Accounting Secret	Accounting Port 1813
Accounting Secret	(0-9,a-z,A-Z,~!@#\$%^&*()_+`-={}[];'\:" ,./<>?)
	Save

## LAN

LAN is short for Local Area Network. This is your internal network. These are the IP settings of the LAN interface for the DAP-2622. 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: Click the drop-down menu to select IP address setting mode.

**Static IP (Manual):** Select this setting to assign a static IP address to the device. **Dynamic IP (DHCP):** Select this setting to obtain an IP address from a DHCP server on the network.

**IP Address:** Enter the IP address to assign a static IP address.

- 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/router in your network.
  - **DNS:** Enter a DNS server IP address. This is usually the local IP address of your gateway/router.

LAN Settings		
Get IP From	Dynamic IP (DHCP) 🗸	
IP Address	192.168.0.103	
Subnet Mask	255.255.255.0	
Default Gateway	192.168.0.1	
DNS	192.168.0.1	
		Save

## IPv6

Enable IPv6: Check to enable IPv6.

Get IP From: Choose Auto to acquire IPv6 address automatically or use Static to set IPv6 address manually. When Auto is selected, the other fields here will be grayed out.

IP Address: Enter the LAN IPv6 address used here.

Prefix: Enter the LAN subnet prefix length value used here.

**Default Gateway:** Enter the LAN default gateway IPv6 address used here.

IPv6 Settings	
Enable IPv6	
Get IP From	Static 💙
IP Address	
Prefix	
Default Gateway	
	Save

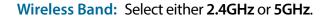
# **Advanced Settings**

In the **Advanced Settings** section, the user can configure advanced settings concerning Performance, Multiple SSID, VLAN, Security, Quality of Service, AP Array, Web Redirection, DHCP Server, Filters and Scheduling. The following pages will explain settings found in this section in more detail.

D-Link <sup>°</sup>			DAP-2622
🔶 Home 🏾 🕺 Maintenanc	e 👻 📙 Configuration	🛛 🐳 System 🛛 🖉 Logout	🕐 Help
DAP-2622 Basic Settings Wireless Advanced Settings Advanced Settings Wireless Resource Multi-SSID VLAN Schedule Intrusion Schedule Internal RADIUS Server ARP Spoofing Prevention Bandwidth Optimization Captive Portal Captive Portal Filters Filters Captive Portal Captive Portal Capti	Performance SettingsWireless BandWirelessWireless ModeData RateBeacon Interval (40-500)DTIM Period (1-15)Transmit PowerWMM (Wi-Fi Multimedia)Ack Time OutShort GIIGMP SnoopingMulticast RateMulticast Bandwidth ControlMaximum Multicast BandwidthHT 20/40 CoexistenceTransfer DHCP Offer to Unicast	2.4GHz ▼ On ▼ Mixed 802.11b, 802.11g, 802.11n ▼ Best(Up to 300) ▼ Mbps 100 1 1 100% ▼ Enable ▼ 64 (µs) Enable ▼ Disable ▼ Disable ▼ Mbps Disable ▼ 100 kbps Enable ▼	Save

### Performance

On the Performance Settings page, you can configure more advanced settings concerning the wireless signal and hosting.



Wireless: Use the drop-down menu to turn the wireless function on or off.

Wireless Mode: Click the drop-down menu to select the wireless mode. 2.4GHz band supports: Mixed 802.11b, 802.11g, 802.11n; Mixed 802.11b, 802.11g; and 802.11n Only. 5GHz band supports: Mixed 802.11n, 802.11a; 802.11a Only; 802.11n Only; and Mixed 802.11ac.

Please note that when backwards compatibility is enabled for legacy (802.11a/g/b) clients, degradation of 802.11n wireless performance is expected.

Data Rate\*: When Wireless Mode is set to Mixed 802.11b, 802.11g (for 2.4GHz) and 802.11a Only (for 5GHz), click the drop-down menu to 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 derate the transfer rate.

**Beacon Interval (40-500):** 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.

DTIM Interval (1-15): Select a Delivery Traffic Indication Message setting between 1 and 15. 1 is the default setting. DTIM is a countdown informing clients of the next window for listening to broadcast and multicast messages.

Performance Settings	
Wireless Band	2.4GHz 🗸
Wireless	
Wireless Mode	Mixed 802.11b, 802.11g, 802.11n 🗸
Data Rate	Best(Up to 300) 🛩 Mbps
Beacon Interval (40-500)	100
DTIM Period (1-15)	1
Transmit Power	100% ¥
WMM (Wi-Fi Multimedia)	Enable 💙
Ack Time Out	64 (µs)
Short GI	Enable 🗸
IGMP Snooping	Disable 🗸
Multicast Rate	Disable V Mbps
Multicast Bandwidth Control	Disable 🗸
Maximum Multicast Bandwidth	100 kbps
HT 20/40 Coexistence	Enable 💙
Transfer DHCP Offer to Unicast	Disable 💙

- 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 drop-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 your Wi-Fi network.

Ack Time Out To effectively optimize throughput over long-distance links, enter a value for Acknowledgement Time Out between 25 and 200 (2.4 GHZ, 64~200): microseconds for 5 GHz, or 64 to 200 microseconds for 2.4 GHz.

- 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.
- Multicast Rate: Adjust the multicast packet data rate here. The multicast rate is supported in **AP mode** (2.4 GHZ and 5 GHZ) and **WDS with AP mode**, including Multi-SSIDs.
- Multicast Bandwidth Adjust the multicast packet data rate here. The multicast rate is supported in **AP mode**, and **WDS with AP mode**, including Multi-Control: SSIDs.

Maximum Multicast Set the multicast packets maximum bandwidth passthrough rate from the Ethernet interface to the access point. Bandwidth:

- HT20/40 Coexistence: Enable this option to reduce interference from other wireless networks in your area. If the channel width is operating at 40 MHz and there is another wireless network's channel overlapping and causing interference, the access point will automatically change to 20 MHz.
- Transfer DHCP Offer to Enable to transfer the DHCP Offer to Unicast from LAN to WLAN. Enable this function if the number of stations on your network Unicast: is larger than 30.

## **Wireless Resource Control**

The Wireless Resource Control window is used to configure the wireless connection settings so that the device can detect the better wireless connection in your environment.

**Band Steering:** Use the drop-down menu to **Enable** the 5G Preferred function. When the wireless clients support both 2.4GHz and 5GHz and the 2.4GHz signal is not strong enough, the device will use 5G as the higher priority.

#### Wireless band: Select 2.4GHz or 5GHz.

**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 and when the number of users exceeds this value, or the network utilization of this AP exceeds the percentage that has been specified, the DAP-2622 will not allow clients to associate with the AP.

Wireless Resource	Control
Airtime Fairness	Disable 🗸
Bandsteering	Disable 🗸
Wireless Band	2.4GHz 💙
Connection Limit	Disable 💙
User Limit (0 - 64)	20
11n Preferred	Disable 💙
Network Utilization	100% 🗸
Aging out	Disable 🗸
RSSI Threshold	100% 🗸
Data Rate Threshold	54 🗸
ACL RSSI	Disable 💙
ACL RSSI Threshold	60% 💙

- User Limit: Set the maximum amount of users that are allowed access (zero to 64 users) to the device using the specified wireless band. The default setting is **20**.
- **11n Preferred:** Use the drop-down menu to **Enable** the 11n Preferred function. The wireless clients with 802.11n protocol will have higher priority to connect to the device.
- Network Utilization: Set the maximum utilization of this access point for service. The DAP-2622 will not allow any new clients to associate with the AP if the utilization exceeds the value the user specifies. Select a utilization percentage between 100%, 80%, 60%, 40%, 20%, and 0%. When this network utilization threshold is reached, the device will pause for one minute to allow network congestion to dissipate.

- Aging out:Use the drop-down menu to select the criteria of disconnecting the wireless clients. Available options are RSSI and Data<br/>Rate.RSSI Threshold:When RSSI is selected in the Aging out drop-down menu, select the percentage of RSSI here. When the RSSI of wireless<br/>clients is lower than the specified percentage, the device disconnects the wireless clients.Data Rate Threshold:When Data Rate is selected in the Aging out drop-down menu, select the threshold of the data rate here. When the<br/>data rate of wireless clients is lower than the specified number, the device disconnects the wireless clients.
  - ACL RSSI: Use the drop-down menu to **Enable** the function. When enabled, the device denies the connection request from the wireless clients with the RSSI lower than the specified threshold below.

ACL RSSI Threshold: Set the ACL RSSI Threshold.

## Multi-SSID

The device supports up to eight multiple Service Set Identifiers per radio. 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 Multi-SSID: Check to enable support for multiple SSIDs.

#### Band: Select 2.4GHz or 5GHz.

- Index: You can select up to seven multi-SSIDs. With the Primary SSID, you have a total of eight multi-SSIDs per radio.
- **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.
  - Security: The Multi-SSID security can be **Open System, WPA-Personal**, or **WPA-Enterprise**. For a detailed description of the Open System parameters, please go to page 20. For a detailed description of the WPA-Personal parameters please go to page 21. For a detailed description of the WPA-Enterprise parameters please go to page 22.

**Note:** It is highly recommended that you encrypt your network for all SSIDs in Multi-SSID configuration.

Priority: Select the priority level of the SSID selected.

WMM (Wi-Fi WMM stands for Wi-Fi Multimedia. Enabling this feature Multimedia): will improve the user experience for audio and video applications over a Wi-Fi network.

Multi-SSID Settings				
Enable Multi-SSID     Wireless Settings	Enable F	Priority		
Band	2.4GHz 💙			
Index	Primary SSI	D 💙		
SSID	dlink			
SSID Visibility	Enable 💙			
Security	Open Syster	n 💙		
Priority	0 🛩			
WMM (Wi-Fi Multimedia)	Enable 💙			
Key Settings				
Encryption	Disable	O Enable		
Кеу Туре	ASCII 🗸	Key Size	64 Bits 💙	
Key Index (1~4)	1 🌱			
Network Key				
Confirm Key				
	(0-9,a-z,A-Z	",~!@#\$%^&*()_+`-=	[}[];':" ,./<>?)	
				Add
				7100
Index SSID	Band	Authentication Method	Encryption Type	Delete
Primary SSID dlink	2.4G Hz	No Authenticat	ion <sup>No</sup> Encryption	
				Saus
				Save

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-bit or 128-bit.

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 drop-down menu.

WPA Mode: When you select either WPA-Personal or WPA-Enterprise, you must also choose a WPA mode from the drop-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 drop-down menu.

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

Pass Phrase: When you select WPA-Personal, please enter a pass phrase in the corresponding field.

Confirm Pass Phrase: When you select WPA-Personal, please re-enter the pass phrase 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-2622 supports VLANs. VLANs can be created with a name and VID. Mgmt (TCP stack), LAN, primary/multiple SSID, and WDS connections can be assigned to VLANs as they are physical ports. Any packet which enters the DAP-2622 without a VLAN tag will have a VLAN tag inserted with a PVID. The **VLAN List** tab displays the current VLANs.

VLAN Status: Click the radio button to enable or disable VLAN status. Next, go to the **Add/Edit VLAN** tab to add or modify an item on the VLAN List tab.

VLAN Status: Displays the current VLAN status.

- Save: Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.
- **VID:** Displays the VID of the VLAN.

VLAN Name: Displays the name of the VLAN.

Untag VLAN Ports: Displays the untagged ports.

Tag VLAN Ports: Displays the tagged ports.

Edit: Click Edit to edit the current VLAN.

Delete: Click Delete to delete the current VLAN.

VLAN Set	ttings				
	Oisable ○     Static(2.4G), Stati		Save		
VLAN List	Port List	Add/Edit VLAN	PVID Setting		
VID VLAN Nan	ne Untag VLAN	l Ports Tag	VLAN Ports	Edit	Delete
1 default	Primary(2.4 2(2.4G), S- 4(2.4G), S- 6(2.4G), S- 6(2.4G), S- Primary(5G 2(5G), S-3(	5(2.4G), S-		Edit	Delete

### 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 Click the radio button to enable or disable VLAN status. Next, go to the Add/Edit VLAN tab to add or modify an item on the VLAN List tab.
- VLAN Mode Displays the current VLAN mode.
  - **Save** Click to save the updated configuration. To make the updates permanent, click **Configuration > Save and Activate**.
- **Port Name** Displays the name of the port.
  - Tag VID Displays the tagged VID of the port.
- Untag VID Displays the untagged VID of the port.
  - **PVID** Displays the PVID of the port.

VLAN Set	tings				
VLAN Status :	Disable O	Enable	Save		
VLAN Mode : S	Static(2.4G), Sta	tic(5G)			
VLAN List	Port List	Add/Edit VLAN	PVID Setting		
Port Name	Tag VID		ag VID	PVID	
Mgmt		1		1	
LAN1		1		1	
LAN2		1		1	
LAN3		1		1	
Primary(2.4G)		1		1	
Primary(5G)		1		1	
S-1(2.4G)		1		1	
S-2(2.4G)		1		1	
S-3(2.4G)		1		1	
S-4(2.4G)		1		1	
S-5(2.4G)		1		1	
S-6(2.4G)		1		1	
S-7(2.4G)		1		1	
S-1(5G)		1		1	
S-2(5G)		1		1	
S-3(5G)		1		1	
S-4(5G)		1		1	
S-5(5G)		1		1	
S-6(5G)		1		1	
S-7(5G)		1		1	

### Add/Edit VLAN

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

- VLAN Status: Click the radio button to enable or disable VLAN status. By default this feature is disabled.
- VLAN Mode: Displays the current VLAN mode.
  - VLAN ID: Enter a value (1-4094) for the Internal VLAN.
- VLAN Name: Enter the VLAN name to add or modify.
  - Save: Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

From the Port fields, select the radio button to set Untag/Tag/Not Member settings to the Mgmt (management) and LAN ports. The port configuration functions are also available for the defined 2.4GHz and 5GHz ports.

Untagged ports are used for connecting to client devices, such as a computer host. While tagged ports are designated for VLAN trunk links.

LAN Settin	-				ſ	Save			
	AN Status :  Disable  Enable Save Save AN Mode : Static(2.4G), Static(5G)								
							_		
VLAN ID (VID)		VLAN	Name						
Port	Select All	Mgmt	LAN1	LAN2	LAN3				
Untag	All	0	0	0	0				
Tag	All								
Not Member	All								
-2.4GHz									
MSSID Port	Select All	Primar	y S-1	S-2	S-3	S-4	S-5	S-6	S-7
Untag	All								0
Tag	All								
Not Member	All								
-5GHz									
MSSID Port	Select All	Primar	y S-1	S-2	S-3	S-4	S-5	S-6	S-7
Untag	All	0	0	0	0	0	0	0	0
Tag	All								
Not Member	All								
									Save

#### **PVID Settings**

The **PVID Settings** 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 **Save** button to let your changes take effect.

VLAN Status: Click the radio button to enable or disable VLAN status. By default this feature is disabled.

VLAN Mode: Displays the current VLAN mode.

**PVID Auto Assign** Click the radio button to enable or disable **Status:** PVID auto assign status.

For each untagged port, set the PVID of the port to its assigned VLAN ID. For example, if ports 1, 2, 3, 4, and 5 are untagged members of VLAN 10, ports 1, 2, 3, 4, and 5 would be configured with a PVID of 10.

For better system consistency, the following are recommended:

- set MSSID ports S1 and S2 to 16 and 17, respectively
- set switch port trunk native VLAN 1 for trunk port 1
- Save: Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

VLAN Setting	S	_	_	-	_
VLAN Status : O Di VLAN Mode : Static( VLAN List Po		Save PVID Setting			
PVID Auto Assign Status	Disable	Enable			
Port PVID - 2.4GHz	Mgmt LAN1	LAN2 LAN3			
MSSID Port PVID	Primary S-1	S-2 S-3	S-4 S-5	S-6	S-7
-5GHz MSSID Port	Primary S-1	S-2 S-3	S-4 S-5	S-6	S-7
PVID	1 1	1 1		1	1
					Save

### Intrusion

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

- Wireless Band Click the drop-down menu to select the wireless band, 2.4GHz or 5GHz.
  - **Detect** Click **Detect** to initiate a scan of the network.
  - AP List Click the drop-down menu to select All, Valid, Neighborhood, Rogue, and New. The following is a definition of the listed AP categories:
    - Valid: An AP which is authenticated to the network with encryption is classified as valid.
    - Neighborhood: A detected AP with a weak signal strength is classified as a suspect neighbor.
    - Rogue: An AP that has been installed on the secure network with out explicit authorization.
    - New: An alternative category.

From the AP List select a detected AP and click **Set as Valid**, **Set as Neighborhood**, **Set as Rogue**, or **Set as New** to manually define the category type for the AP. Alternatively, click the radio button to mark all new access points as valid or rogue.

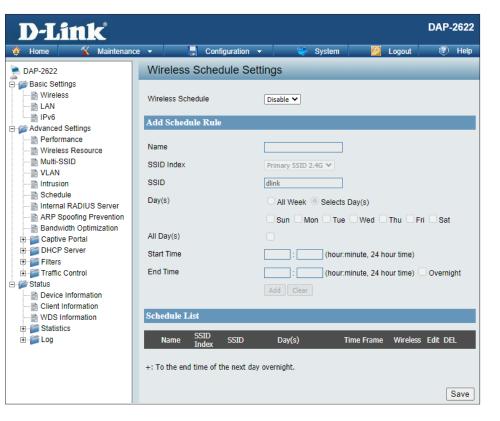
Save Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

D-Link <sup>®</sup>						DAP-2622
🔅 Home 🏾 🌠 Maintenan	ce 🔻	🚽 Configu	uration 👻	💝 System	💋 Logout	🕐 Help
DAP-2622 Basic Settings Wireless LAN Prv6 Advanced Settings Wireless Resource Wireless Resource Wireless Resource With-SSID VLAN Intrusion RAP Spoofing Prevention RAP Spoofing Prevention RAP Spoofing Prevention RAP Spoofing Prevention Captive Portal Fitters Fitt	Wireless Detect AP Lis AI	ess Intrusio s Band 2.40 it Type Band New b/g/n New b/g/n New b/g/n	CH SSI 1 RADTEST 1 dlink-A0D2 1 mt7603e-B50 Neighborhood s Points as Valid	D BSSID 00:AD:24:36: C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:0A:6F:/ C4:E9:C4:E9:C4:C4:C4:C4:C4:C4:C4:C4:C4:C4:C4:C4:C4:	79:56 2020-10-21 16:34:31 A0:D3 2020-10-21 16:34:31 2020-10-21 16:34:31 2020-10-21	Save

# Schedule

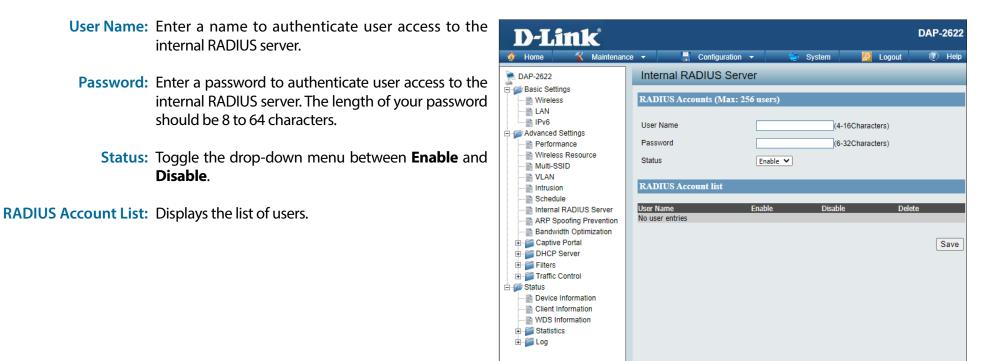
The **Wireless Schedule Settings** window is used to add and modify scheduling rules on the device. Click the **Save** button to let your changes take effect.

- Wireless Schedule: Use the drop-down menu to enable the device's scheduling feature.
  - Name: Enter a name for the new scheduling rule in the field provided.
  - Index: Use the drop-down menu to select the desired SSID.
  - **SSID:** This read-only field indicates the current SSID in use. To create a new SSID, go to the **Wireless Settings** window (**Basic Settings** > **Wireless**).
  - 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.
  - Start Time: Enter the beginning hour and minute, using a 24-hour clock.
  - End Time: Enter the ending hour and minute, using a 24-hour clock.



# **Internal RADIUS Server**

The DAP-2622 features a built-in RADIUS server. Once you have finished adding a RADIUS account, click the **Save** button to let your changes take effect. The newly-created account will appear in the **RADIUS Account List**. The radio buttons allow the user to enable or disable the RADIUS account. Click the icon in the delete column to remove the RADIUS account. We suggest you limit the number of accounts to 30.



# **ARP Spoofing Prevention**

The ARP Spoofing Prevention feature allows users to add IP/MAC address mapping to prevent ARP spoofing attacks.

ARP Spoofing Prevention: This check box allows you to enable the ARP spoofing prevention function.

Gateway IP Address: Enter a gateway IP address.

Gateway MAC Address: Enter a gateway MAC address.

D-Link					DAP-2622
🛊 Home 🕺 Maintenand	ce 👻 📑 Con	figuration 👻	😂 System	💋 Logout	② Help
DAP-2622	ARP Spoofing	Prevention Set	ttings	_	_
Wireless	ARP Spoofing Prevention	Enable 💙			
IPv6	Add Gateway Add	ress			
Advanced Settings  Advanced Settings  Breformance  Wireless Resource  Multi-SSID  KLAN  Bi Intrusion	Gateway IP Address Gateway MAC Address	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;; _;	]	]: []	
Internal RADIUS Server     ARP Spoofing Prevention	Gateway Address	List			
Bandwidth Optimization	Total Entries: 0				Delete All
Captive Portal  DHCP Server	Gateway IP Address	Gateway MAC Ad	dress	Edit	Delete
					Save
🖻 🍘 Status					
WDS Information					
Statistics					
i fill Log					

# **Bandwidth Optimization**

The **Bandwidth Optimization** window allows the user to manage the bandwidth of the device and arrange the bandwidth for various wireless clients. When the Bandwidth Optimization rule is finished, click the **Add** button. To discard the Add Bandwidth Optimization Rule settings, click the **Clear** button. Click the **Save** button to let your changes take effect.

	Use the drop-down menu to enable the Bandwidth Optimization function.	D-Link Maintenanc	e 🕶 📑 Con	figuration 👻 💝 System	🛛 🖉 Logout	DAP-2622
	Enter the downlink bandwidth of the device in Mbits per second.	DAP-2622	Bandwidth Opt Enable Bandwidth Optimization Downlink Bandwidth	Disable V B0 Mbits/sec	_	
•	Enter the uplink bandwidth of the device in Mbits per second.	Advanced Settings Performance Wireless Resource Multi-SSID VLAN	Uplink Bandwidth Add Bandwidth O	80 Mbits/sec		
ti A n d s b Allocate average BW	Use the drop-down menu to select the type that is applied to the rule. Available options are: Allocate average BW for each station, Allocate maximum BW for each station, Allocate different BW for 1a/b/g/n stations, and Allocte specific BW for SSID. The rules are described below. The AP will distribute average bandwidth for each client.	Intrusion     Schedule     Intrusion     Schedule     Internal RADIUS Server     ARP Spoofing Prevention     Bandwidth Optimization     Captive Portal     DHCP Server     Filters     Traffic Control     Status     Device Information     WDS Information     Statustics     Log	Rule Type Band SSID Index Downlink Speed Uplink Speed Bandwidth Optimi Band Type	Allocate average BW for each station 2.4GHz  Primary SSID  Kbits/sec  Kbits/sec  Add Clear SSID Index Downlink Speed	V Uplink Speed Edit	Delete
Allocate maximum BW for each station: fi Allocate different BW for a/b/g/n stations:	Specify the maximum bandwidth for each connected client. Reserve certain bandwidth for future clients. The weight of the 11b/g/n and 11a/n clients are 10%/20%/70% and 20%/80%. The AP will distribute different bandwidth for 11a/b/g/n clients.					

#### Allocate specific BW for

**SSID:** All clients share the total bandwidth.

- Band: Use the drop-down menu to toggle the wireless band between 2.4GHz and 5GHz.
- SSID Index: Use the drop-down menu to select the SSID for the specified wireless band.
- **Downlink Speed:** Enter the limitation of the downloading speed in either Kbits/sec or Mbits/sec for the rule.
  - Uplink Speed: Enter the limitation of the uploading speed in either Kbits/sec or Mbits/sec for the rule.
    - Add: Click to create a defined rule.
    - Clear: Click to remove the settings from the menu interface.
    - Edit: Click to edit the selected gateway entry.
    - **Delete:** Click to delete the gateway entry.
      - Save: Click to save the updated configuration. To make the updates permanent, click **Configuration > Save** and Activate.

# **Captive Portal**

## **Authentication Settings - Web Redirection Only**

The Captive Portal is a built-in web authentication server. When a station connects to an AP, the web browser will be redirected to a web authentication page. In this window, user can view and configure the Captive Portal settings. After selecting **Web Redirection Only** as the Authentication Type, we can configure the redirection website URL that will be applied to each wireless client in this network.

- **Session timeout** Enter the session timeout value here. This value DAP-2622 (1-1440): can be from 1 to 1440 minutes. By default, this Maintenance 👻 🚽 Configuration 👻 Help A Home System L odout value is **60** minutes. **Captive Portal Authentication** DAP-2622 Basic Settings Session Timeout (1-1440) Band: Select 2.4GHz or 5GHz. 60 Minute(s) Wireless 🖹 LAN Band 2.4GHz 🗸 IPv6 Advanced Settings SSID Index **SSID Index:** Select the SSID for this authentication. Primary SSID 🗸 Performance Authentication Type Web Redirection Only 🗸 Wireless Resource Multi-SSID Authentication Type: Select the captive portal encryption type Web Redirection Interface Settings 🖹 VLAN 📄 Intrusion here. The options to choose from are Web Redirection State Enable 🗸 📄 Schedule Web Redirection, Username/Password, Internal RADIUS Server URL Path http:// 🗸 ARP Spoofing Prevention Passcode, Remote RADIUS, LDAP and **IP Interface Settings** Bandwidth Optimization Captive Portal **POP3**. In this section we'll discuss the **Web** Authentication Settings IPIE Status Disable 🗸 Redirection option. Elegin Page Upload VLAN Group AC Bypass E M DHCP Server Get IP From Static IP (Manual) V Dynamic Pool Settings Default setting is Enable when select Web Web Redirection State: IP Address Static Pool Settings **Redirection Only.** Current IP Mapping List Subnet Mask E Filters Gateway Wireless MAC ACL WLAN Partition **URL Path:** Select whether to use either HTTP or HTTPS DNS IP Filter Settings here. After selecting either http:// or https://, E Control Uplink/Downlink Settings enter the URL of the website that will be used Save QoS Traffic Manager SSID In Captive Profil in the space provided.
  - IPIF Status: Select to Enable or Disable the Captive Portal with its IP interface feature here.
  - VLAN Group: Enter the VLAN Group ID here.

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Get IP From:	<b>Static IP (Manual)</b> 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-2622. 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:	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.
Gateway:	Enter the IP address of the gateway/router in your network.

**DNS:** Enter a DNS server IP address. This is usually the local IP address of your gateway/router.

### Authentication Settings - Username/Password

The Captive Portal is a built-in web authentication server. When a station connects to an AP, the web browser will be redirected to a web authentication page. In this window, you can view and configure the Captive Portal settings. After selecting **Username/Password** as the authentication type, you can configure the Username/Password authentication that will be applied to each wireless client in this network.

Session timeout	Enter the session timeout value here. This value					
(1-1440):		D-Link <sup>®</sup>			DA	AP-2622
(11440).	•	🔶 Home 🌋 Maintenand	ce 👻 📑 Configuration	▼ System	🖉 Logout 🛙	🕐 Help
	value is 60 minutes.				Eogout .	e/ Hup
		DAP-2622 ⊡-∰ Basic Settings	Captive Portal Auther	ntication		
Band:	Select <b>2.4GHz</b> or <b>5GHz</b> .	Wireless	Session Timeout (1-1440)	60 Minute(s)		
		LAN	Band	2.4GHz 🗙		
SSID Index:	Select the SSID for this authentication.	Advanced Settings	SSID Index	Primary SSID 🗸		
5510 11462.	Select the SSID for this addictication.	Performance     Wireless Resource	Authentication Type	Username/Password V		
Authentication Type:	Select the captive portal encryption type	VLAN	-Web Redirection Interface Set	tings		
	here. The options to choose from are <b>Web</b>		Web Redirection State	Enable 💙		
	Redirection, Username/Password, Passcode,	Internal RADIUS Server     ARP Spoofing Prevention	URL Path	http:// 🗸		
	Remote RADIUS, LDAP and POP3. In this	Bandwidth Optimization	IP Interface Settings			
	section we'll discuss the Username/Password	Captive Portal	IPIF Status	Disable 🗸		
		Login Page Upload	VLAN Group			
	option.	MAC Bypass	Get IP From	Static IP (Manual) 🗸		
		Dynamic Pool Settings	IP Address	State 1 (Fanday -		
Web Redirection State:	Select <b>Enable</b> to enable the website redirection	Static Pool Settings				
	feature.	🖻 🎓 Filters	Subnet Mask			
		Wireless MAC ACL	Gateway			
	Select whether to use either HTTP or HTTPS	IP Filter Settings	DNS			
URL Path :		E I Traffic Control	Username/Password Settings			
	here. After selecting either <b>http://</b> or <b>https://</b> ,	QoS	Username			
	enter the URL of the website that will be used	Traffic Manager	Password			
	in the space provided.	Device Information		Add Clear		
		Client Information	Username	Edit	Delete	
IPIF Status:	Select to <b>Enable</b> or <b>Disable</b> the Captive Portal	Statistics				
IFIF Status.	with its IP interface feature here.	Ethernet	Band SSID Index	Captive Profile	Edit Delet	Save
	with its in interface leature here.	⊟-œLoa	Band SSID Index		Euit Delet	e
VLAN Group:	Enter the VLAN Group ID here.					

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-2622. 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: 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.

Gateway: Enter the IP address of the gateway/router in your network.

**DNS:** Enter a DNS server IP address. This is usually the local IP address of your gateway/router.

Username: Enter the username for the new account here.

**Password:** Enter the password for the new account here.

### **Authentication Settings - Passcode**

The Captive Portal is a built-in web authentication server. When a station connects to an AP, the web browser will be redirected to a web authentication page. In this window, user can view and configure the Captive Portal settings. After selecting **Passcode** as the authentication type, we can configure the passcode authentication that will be applied to each wireless client in this network.

Session	Enter the session timeout value here. This value	<b>D-Link</b>		DAP-2
timeout(1-1440):	can be from <b>1</b> to <b>1440</b> minutes. By default, this	Community of the second s	e 👻 📑 Configuration	🔹 🐸 System 🔗 Logout 😰 I
	value is <b>60</b> minutes.	🔮 Home 🤺 Maintenanc		
		DAP-2622	Captive Portal Authen	itication
Band:	Select <b>2.4GHz</b> or <b>5GHz</b> .	E Basic Settings Basic Settings Wireless	Session Timeout (1-1440)	60 Minute(s)
		LAN	Band	2.4GHz 🗸
SSID Index :	Select the SSID for this authentication.	Advanced Settings	SSID Index	Primary SSID V
		Wireless Resource	Authentication Type	Passcode V
Authentication Type :	Select the captive portal encryption type here.	Multi-SSID	Web Redirection Interface Sett	ings
	Options to choose from are <b>Web Redirection</b> ,	Intrusion	Web Redirection State	Enable 💙
	Username/Password, Passcode, Remote	Schedule	URL Path	http:// V
	RADIUS, LDAP and POP3. In this section we'll	ARP Spoofing Prevention		
	discuss the <b>Passcode</b> option.	Bandwidth Optimization	IP Interface Settings	
	discuss the <b>rasscode</b> option.	Authentication Settings	IPIF Status	Disable 💙
Web Dedinestion States	Colort Franklanta anglala tha such site ye diversiting	Login Page Upload	VLAN Group	
web Redirection State :	Select <b>Enable</b> to enable the website redirection	DHCP Server	Get IP From	Static IP (Manual) V
	feature.	Dynamic Pool Settings	IP Address	
		Current IP Mapping List	Subnet Mask	
URL Path :	Select whether to use either HTTP or HTTPS	Filters		
	here. After selecting either <b>http://</b> or <b>https://</b> ,	Wireless MAC ACL	Gateway	
	enter the URL of the website that will be used	IP Filter Settings	DNS	
	in the space provided.	⊡ g Traffic Control Uplink/Downlink Settings	Passcode Settings	
	in the space provided.	QoS	Passcode Quantity	
		Traffic Manager	Duration	Hour
IPIF Status :	Select to <b>Enable</b> or <b>Disable</b> the Captive Portal	E Device Information	Last Active Time	Year 2020 V Month Jan V Day 1 V Hour 1:00 V
	with its IP interface feature here.	Client Information		
		WDS Information	User Limit	
	Fister the MI AN Crossed ID have	Ethernet		Add Clear
VLAN Group:	Enter the VLAN Group ID here.	WLAN	Delete All	
		E 🖉 Log	Passcode Duration	Last Active Time User Limit Delete
		Log Settings		

DAP-2622 Image: Melp

Edit Delete

Save

Captive Profile

Band

SSID Index

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-2622. 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 is selected.

**IP Address:** 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.

**Gateway:** Enter the IP address of the gateway/router in your network.

DNS: Enter a DNS server IP address. This is usually the local IP address of your gateway/router.

Passcode Quantity: Enter the number of tickets that will be used here.

**Duration:** Enter the duration value, in hours, for this passcode to last.

Last Active Day: Select the last active date for this passcode here. Year, Month and Day selections can be made.

User Limit: Enter the maximum amount of users that can use this passcode at the same time.

#### **Authentication Settings - Remote RADIUS**

The Captive Portal is a built-in web authentication server. When a station connects to an AP, the web browser will be redirected to a web authentication page. In this window, you can view and configure the Captive Portal settings. After selecting **Remote RADIUS** as the authentication type, we can configure the Remote RADIUS authentication that will be applied to each wireless client in this network.

Session timeout (1-1440):	Enter the session timeout value here. This value can be from <b>1</b> to <b>1440</b> minutes. By default, this value is 60 minutes.
Band:	Select <b>2.4GHz</b> or <b>5GHz</b> .
SSID Index:	Select the SSID for this authentication.
Authentication Type:	Select the captive portal encryption type here. Options to choose from are <b>Web Redirection</b> , <b>Username</b> / <b>Password, Passcode, Remote RADIUS, LDAP</b> and <b>POP3</b> . In this section we'll discuss the Remote RADIUS option.
Web Redirection State:	Select <b>Enable</b> to enable the website redirection feature.
URL Path:	Select whether to use either HTTP or HTTPS here. After selecting either <b>http://</b> or <b>https://</b> , enter the URL of the website that will be used in the space provided.
IPIF Status:	Select to <b>Enable</b> or <b>Disable</b> the Captive Portal with its IP interface feature here.
VLAN Group:	Enter the VLAN Group ID here.
Get IP From:	<b>Static IP (Manual)</b> 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-2622. 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.

Captive Portal Authenti	cation	
Session Timeout (1-1440) Band	60 Minute(s) 2.4GHz V	
SSID Index	Primary SSID V	
Authentication Type	Remote RADIUS	
Web Redirection Interface Settin	gs	
Web Redirection State	Enable 🗸	
URL Path	http:// 🖌	
IP Interface Settings		
IPIF Status	Disable 🗸	
VLAN Group		
Get IP From	Static IP (Manual) 💙	
IP Address		
Subnet Mask		
Gateway		
DNS		
Remote RADIUS Settings		
Radius Server Settings		
RADIUS Server		Radius Port 1812
Shared Secret		
Remote RADIUS Type	SPAP 🗸	
Secondary radius Server Sett	ings	
RADIUS Server		Radius Port 1812
Shared Secret		
Remote RADIUS Type	SPAP 🗸	
Third radius Server Settings		
RADIUS Server		Radius Port 1812
Shared Secret		
Remote RADIUS Type	SPAP 🗸	
		Save

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IP Address:	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.
Gateway:	Enter the IP address of the gateway/router in your network.
DNS:	Enter a DNS server IP address. This is usually the local IP address of your gateway/router.
Radius Server:	Enter the RADIUS server's IP address here.
Radius Port:	Enter the RADIUS server's port number here.
Radius Port:	Enter the RADIUS server's shared secret here.
Remote Radius Type:	Select the remote RADIUS server type here. Currently, only SPAP will be used.

## **Authentication Settings - LDAP**

The Captive Portal is a built-in web authentication server. When a station connects to an AP, the web browser will be redirected to a web authentication page. In this window, user can view and configure the Captive Portal settings. After selecting **LDAP** as the authentication type, we can configure the LDAP authentication that will be applied to each wireless client in this network.

	Enter the session timeout value here. This value can be from <b>1</b> to <b>1440</b> minutes. By default, this value is 60 minutes.	Captive Portal Authention	cation
Band:	Select <b>2.4GHz</b> or <b>5GHz</b> .	Session Timeout (1-1440)	60 Minute(s)
SSID Index:	Select the SSID for this authentication.	Band SSID Index	2.4GHz V Primary SSID V
Authentication Type:	Select the captive portal encryption type here. Options to choose from are <b>Web Redirection, Username</b> /	Authentication Type	
	<b>Password, Passcode, Remote RADIUS, LDAP</b> and <b>POP3</b> . In this section we'll discuss the LDAP option.	Web Redirection Interface Setting	Enable V
Web Redirection State:	Select <b>Enable</b> to enable the website redirection feature.	URL Path	http:// 🗸
URL Path:	Select whether to use either HTTP or HTTPS here. After selecting either <b>http://</b> or <b>https:</b> // enter the UBL of the	IPIF Status VLAN Group	Disable V
	selecting either <b>http://</b> or <b>https:</b> //, enter the URL of the website that will be used in the space provided.		Static IP (Manual)
<b>IPIF Status:</b>	Select to <b>Enable</b> or <b>Disable</b> the Captive Portal with its IP	IP Address	
	interface feature here.	Subnet Mask	
		Gateway	
VLAN Group:	Enter the VLAN Group ID here.		
Get IP From:	Static IP (Manual) is chosen here. Choose this option if	LDAP Settings	
Geen From.	you do not have a DHCP server in your network, or if you	Port	389
	wish to assign a static IP address to the DAP-2622. When	Authenticate Mode	Simple V
	Dynamic IP (DHCP) is selected, the other fields here will	User Name	
	be grayed out. Please allow about 2 minutes for the DHCP	Password	
	client to be functional once this selection is made.	Base DN	(ou=,dc=)
		Account Attribute	(ex.cn)
		Identity	Auto Copy

SSID Ir

**Captive Profile** 

Save

Delete

Edit

#### D-Link DAP-2622 User Manual

IP Address:	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.
Gateway:	Enter the IP address of the gateway/router in your network.
DNS:	Enter a DNS server IP address. This is usually the local IP address of your gateway/router.
Server:	Enter the LDAP server's IP address or domain name here.
Port:	Enter the LDAP server's port number here.
Authenticate Mode:	Select the authentication mode here. Options to choose from are Simple and TLS.
Username:	Enter the LDAP server account's username here.
Password:	Enter the LDAP server account's password here.
Base DN:	Enter the administrator's domain name here.
Account Attribute:	Enter the LDAP account attribute string here. This string will be used to search for clients.
Identity:	Enter the identity's full path string here. Alternatively, select the <b>Auto Copy</b> checkbox to automatically add the generic full path of the web page in the identity field.

## **Authentication Settings - POP3**

The Captive Portal is a built-in web authentication server. When a station connects to an AP, the web browser will be redirected to a web authentication page. In this window, user can view and configure the Captive Portal settings. After selecting **POP3** as the Authentication Type, we can configure the POP3 authentication that will be applied to each wireless client in this network.

- Session timeout Enter the session timeout value here. This value (1-1440): can be from 1 to 1440 minutes. By default, this value is 60 minutes.
   Band: Select 2.4GHz or 5GHz.
   SSID Index: Select the SSID for this authentication.
- Authentication Type:Select the captive portal encryption type here.<br/>Options to choose from are Web Redirection,<br/>Username/Password, Passcode, Remote<br/>RADIUS, LDAP and POP3. In this section we'll<br/>discuss the POP3 option.
- Web Redirection State: Select **Enable** to enable the website redirection feature.
  - URL Path: Select whether to use either HTTP or HTTPS here. After selecting either http:// or https://, enter the URL of the website that will be used in the space provided.
  - **IPIF Status:** Select to **Enable** or **Disable** the Captive Portal with its IP interface feature here.
  - VLAN Group: Enter the VLAN Group ID here

Captive Portal Authent	ication
Session Timeout (1-1440)	60 Minute(s)
Band	2.4GHz 🗸
SSID Index	Primary SSID 🗸
Authentication Type	POP3 V
	105
Web Redirection State	Enable V
URL Path	http:// 🗸
IP Interface Settings	
IPIF Status	Disable V
VLAN Group	
Get IP From	Static IP (Manual) 🗸
IP Address	
Subnet Mask	
Gateway	
DNS	
POP3 Settings	
Server	
Port	110
Connection Type	None 🗸
	Save
Band SSID Index	Captive Profile Edit Delete

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-2622. 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: 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.

**Gateway:** Enter the IP address of the gateway/router in your network.

**DNS:** Enter a DNS server IP address. This is usually the local IP address of your gateway/router.

Server: Enter the POP3 server's IP address or domain name here.

**Port:** Enter the POP server's port number here.

Connection Type: Select the connection type here. Options to choose from are None and SSL/TLS.

## Login Page Upload

In this window, users can upload a custom login web page that will be used by the captive portal feature. Click the **Browse** button to navigate to the login style located on the managing computer and then click the **Upload** button to initiate the upload.

- Upload Login Style In this field, the path to the login style file that will be uploaded will be displayed. Alternatively, the path can be manually entered here.
- Login Page Style List : Select the wireless band and login style that will be used in each SSID here. Click the **Download** button to download the template file for the login page. Click the **Del** button to delete the template file.

D-Link <sup>®</sup>										DAP	2622
🛕 Home 🕺 Maintenan	ice 🔻	Configuration	-		٢	System			Logout	0	Help
DAP-2622	L	ogin Page Upload									
Basic Settings     Wireless     LAN	Up	load Login Style From Loca	al Har	d Drive	,						
	U	pload Login Style from file :		Choose	File	No file c	hosen		Uplo	ad	
Advanced Settings	T	he Left space	7	26016	Byte(s	)					
···· → Wireless Resource ···· → Multi-SSID	Lo	gin Page Style List									
VLAN	w	/ireless Band	2	.4GHz 1	~						
Schedule		Style Name	Pri				-4 S-5			Download	Del
Internal RADIUS Server	1	pages_default.tar pages headerpic.tar	0		0			0	0	Download Download	
ARP Spoofing Prevention	3	pages_license.tar	0							Download	
E Captive Portal											
Authentication Settings											Save
Login Page Upload MAC Bypass											
🕀 💣 Filters											
E Status											
Client Information											
WDS Information											
E Statistics											
i∃ 🃁 Log											

## **MAC Bypass**

The DAP-2622 features a wireless MAC Bypass feature that may be configured here. Once you are finished with these settings, click the **Save** button.

Wireless Band: Select the wireless band for the MAC Bypass feature.

**SSID Index:** Select the SSID for the MAC Bypass feature.

- MAC Address: Enter each MAC address that you wish to include in your bypass list and click Add.
- MAC Address List: When a MAC address is entered, it appears in this list. Highlight a MAC address and click the **Delete** icon to remove it from this list.
  - **Upload File:** To upload a MAC bypass list file, click **Browse** and navigate to the MAC bypass list file saved on the computer and then click **Upload**.

Load MAC File to Local To download MAC bypass list file, click Hard Driver: Download to save the MAC bypass list.

# **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 required, the DAP-2622 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-2622 to function as a DHCP server.

- IP Assigned From: Input the first IP address available for assignment on your network.
- IP Pool Range (1-254): Enter the number of IP addresses available for 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 subnet mask for the network here.
  - Gateway: Enter the IP address of the gateway on the 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 that has a dynamically assigned IP address.
    - 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.

Lease Time: 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-2622 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.

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

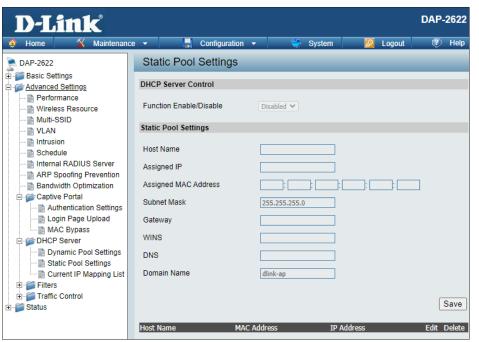
Subnet Mask: Define the subnet mask of the IP address specified in the IP Assigned From field.

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 DNS server address for your wireless network.

**Domain Name:** Specify the domain name for the network.



## **Current IP Mapping List**

This window displays information about the currently assigned dynamic and static IP address pools. This information is available when you enable the DHCP server on the AP and assign dynamic and static IP address pools.

	These are IP address pools that the DHCP server has assigned using the dynamic pool setting.	Current IP Mapping List		
Binding MAC Address:	The MAC address of a device on the network that is assigned an IP address from the DHCP dynamic pool.	Current DHCP Dynamic Pools           Host Name         Binding MAC Address           Current DHCP Static Pools           Host Name         Binding MAC Address	Assigned IP Address Leas Assigned IP Address	e Time
Assigned IP Address:	The current corresponding DHCP-assigned IP address of the device.			
Lease Time:	The length of time that the dynamic IP address will be valid.			
Current DHCP Static Pools:	These are the IP address pools of the DHCP server assigned through the static pool settings.			
Binding MAC Address:	The MAC address of a device on the network that is within the DHCP static IP address pool.			
Assigned IP Address:	The current corresponding DHCP-assigned static IP address of the device.			
Binding MAC Address:	The MAC address of a device on the network that is assigned an IP address from the DHCP dynamic pool.			
Assigned IP Address:	The current corresponding DHCP-assigned static IP address of the device.			

## **Filters**

## Wireless MAC ACL

This page allows the user to configure Wireless MAC ACL settings for access control.

Wireless Band: Displays the current wireless band rate.

Access Control List: 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.

- MAC Address: Enter each MAC address that you wish to include in your filter list, and click **Apply**.
- 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.
  - **Current Client** This table displays information about all the current **Information:** connected stations.
    - Upload File: To upload a ACL list file, click **Browse...** and navigate to the ACL list file saved on the computer, and then click **Upload.**

Load ACL File to Hard To download ACL list file, click **Download** and to save **Drive:** the ACL list.



## **WLAN Partition**

This page allows the user to configure a WLAN Partition.

Wireless Band:	Displays the current wireless band.	WLAN Partition				
	Select <b>Enable</b> or <b>Disable</b> . 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. The default is <b>Enable</b> . When disabled, all data from the Ethernet to associated wireless devices will be blocked. Wireless devices can still send data over the Ethernet interface.	Wireless Band Link Integrity Ethernet to WLAN Access Internal Station Connection Primary SSID Multi-SSID 1 Multi-SSID 2 Multi-SSID 3 Multi-SSID 4 Multi-SSID 5	2.4GHz ▼ Disable ▼ Enable ▼ © Enable © Enable © Enable © Enable © Enable © Enable	<ul> <li>Disable</li> <li>Disable</li> <li>Disable</li> <li>Disable</li> <li>Disable</li> <li>Disable</li> <li>Disable</li> </ul>	<ul> <li>Guest mode</li> <li>Guest mode</li> <li>Guest mode</li> <li>Guest mode</li> <li>Guest mode</li> <li>Guest mode</li> </ul>	
Internal Station Connection:	The default value is <b>Enable</b> , which allows stations to intercommunicate by connecting to a target AP. When disabled, wireless stations cannot exchange data on the same Multi-SSID. In Guest mode, wireless stations cannot exchange data with any station on your network.	Multi-SSID 6 Multi-SSID 7	<ul> <li>Enable</li> <li>Enable</li> <li>Enable</li> </ul>	Disable Disable	Guest mode Guest mode	Save

## **IP Filter Settings**

Enter the IP address or network address that will be used in the IP filter rule (or example, an IP address like **192.168.70.66** or a network address like **192.168.70.0**). This IP address or network will be inaccessible to wireless clients in this network.

Wireless Band :	Select <b>2.4GHz</b> or <b>5GHz</b> .	
IP Address:	Enter the IP address or network address.	
Subnet Mask:	Enter the subnet mask of the IP address or network address.	6
Upload IP Filter File:	To upload an IP filter list file, click <b>Browse</b> and navigate to the IP filter list file saved on the computer, then click <b>Upload</b> .	
Download IP Filter File:	To download an IP Filter list file, click <b>Download</b> .	

D-Link			DAP-2622
🏠 Home 🤺 Maintenanc	e 🔹 🚽 Configuration	🔹 👙 System	🖉 Logout 🛛 🕐 Help
DAP-2622 Basic Settings Advanced Settings Multi-SSID Wireless Resource Multi-SSID Schedule Internal RADIUS Server ARP Spoofing Prevention Bandwidth Optimization Captive Portal Captive Portal Captive Portal DHCP Server Dynamic Pool Settings Current IP Mapping List Filters Wireless MAC ACL WLAN Partition Filter Settings Traffic Control Traffic Control Status	IP Filter Settings Wireless Band SSID Index Filter State IP Address Subnet Mask ID IP Address Upload IP Filter File Upload File : Download IP Filter File Load IP Filter File to Local Hard Driver :	2.4GHz         Primary SSID         Disable         Image: Choose File         No file chosen	Delete Upload Save

# **Traffic Control Uplink/Downlink Setting**

The Uplink/Downlink Settings page allow you to customize the Ethernet, 2.4 GHz and 5 GHz downlink and uplink interfaces by specifying downlink/uplink bandwidth rates in Mbits per second. These values are also used in the QoS and Traffic Manager windows. Once the desired uplink and downlink settings are finished, click the Save button to let your changes take effect.

<b>Downlink Bandwidth:</b> The downlink bandwidth in Mbits per second.	D-Link				P	DAP-262
Uplink Bandwidth: The uplink bandwidth in Mbits per second.	Home Maintenance     DAP-2622     Basic Settings		nfiguration 👻	👙 System	<u> Log</u> out	🕐 Help
<b>Ethernet:</b> Check the box to specify the Downlink or Uplink settings.	<ul> <li>→ Wireless</li> <li>→ LAN</li> <li>→ IPv6</li> <li>→ Advanced Settings</li> <li>→ Performance</li> </ul>	Ethernet1 Ethernet2 Ethernet3 2.4GHz	Downlink Downlink Downlink SGHz	Uplink Uplink Uplink		
	Wireless Resource  Multi-SSID  VLAN  Schedule	Downlink Interface     Primary-ssid     Multi-ssid4     Uplink Interface	Multi-ssid1	Multi-ssid2	Multi-ssid	
	Internal RADIUS Server     Reporting Prevention     Bandwidth Optimization     Captive Portal	Primary-ssid	Multi-ssid1	Multi-ssid2	Multi-ssid	
		Downlink Bandwidth(		Mbits/sec		Save
						Save
	L					

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# QoS

Quality of Service (QoS) enhances the experience of using a network by prioritizing the traffic of different applications. The DAP-2622 supports four priority levels. Once the desired QoS settings are finished, click the **Save** button to let your changes take effect.

Enable QoS:	Check this box to allow QoS to prioritize traffic. Use the drop-down menus to select the four levels of priority for the various kinds of traffic listed below (e.g. web, mail, FTP, etc). Click the <b>Save</b> button when you are finished.
Downlink Bandwidth	Enter the downlink bandwidth in Mbits per second. This value is entered in the <b>Uplink/</b> <b>Downlink Settings</b> window.
Uplink Bandwidth	Enter the uplink bandwidth in Mbits per second. This value is entered in the <b>Uplink/</b> <b>Downlink Settings</b> window.
	Click the drop-down menu to select the level of priority for the selected rule.
Web Traffic Priority	Click the drop-down menu to select the level of priority for the selected rule.
Mail Traffic Priority	Click the drop-down menu to select the level of priority for the selected rule.
FTP Traffic Priority	Click the drop-down menu to select the level of priority for the selected rule.
	Click the drop-down menu to select the level of priority for the selected rule.
Other Traffic Priority	Click the drop-down menu to select the level of priority for the selected rule.
Save	Click to save the updated configuration. To make the updates permanent, click <b>Configuration &gt; Save and Activate</b> .

D-Link <sup>°</sup>	C	DAP-2622
🛊 Home 🕺 Maintenanc	e 🕶 🔚 Configuration 🕶 💝 System 💋 Logout	🕐 Help
DAP-2622	QoS	
Basic Settings	Enable QoS	
Advanced Settings Performance		
Wireless Resource	Advanced QoS	
Multi-SSID		
VLAN Intrusion	Downlink Bandwidth 100 Mbits/sec	
Schedule	Uplink Bandwidth 100 Mbits/sec	
Internal RADIUS Server	ACK/DHCP/ICMP/DNS Highest Priority V Limit 100 % Port 53,67,68,546,547	
ARP Spoofing Prevention		
Captive Portal	Web Traffic Priority Third Priority V Limit 100 % Port 80,443,3128,8080	
Authentication Settings	Mail Traffic Priority Second Priority V Limit 100 % Port 25,110,465,995	
	Ftp Traffic Priority Low Priority V Limit 100 % Port 20,21	
MAC Bypass	User Defined-1 Priority Highest Priority V Limit 100 % Port 0 - 0	1
Dynamic Pool Settings		
Static Pool Settings	User Defined-2 Priority Second Priority V Limit 100 % Port 0 - 0	
Current IP Mapping List	User Defined-3 Priority Third Priority V Limit 100 % Port 0 - 0	
Filters     Wireless MAC ACL	User Defined-4 Priority Low Priority V Limit 100 % Port 0 - 0	
WLAN Partition	Other Traffic Priority Low Priority V Limit 100 %	
IP Filter Settings	Eline 100 10	
Traffic Control		
Uplink/Downlink Settings 		Save
Traffic Manager		

# **Traffic Manager**

The **Traffic Manager** feature allows you to create traffic management rules that specify how to deal with listed client traffic and specify the downlink/uplink speed for new traffic manager rules. Click the **Save** button to let your changes take effect.

**Traffic Manager:** Use the drop-down menu to **Enable** the traffic manager feature.

- Unlisted Client Traffic: Select Deny or Forward to determine how to deal with unlisted client traffic.
- Downlink Bandwidth: The downlink bandwidth in Mbits per second. This value is entered in the Uplink/Downlink Settings window.
  - Uplink Bandwidth: The uplink bandwidth in Mbits per second. This value is entered in the Uplink/Downlink Settings window.
- Add Traffic Manager Rule: Enter a name to designate the traffic management rule. Designate an IP/MAC address to apply the rule to and specify the downlink/ uplink speed for the client.

Traffic Manage	r				
Traffic Manager Unlisted Clients Traffic Downlink Bandwidth	100 Mbits/sec				
Uplink Bandwidth Add Traffic Manag					
Name		]			
Client IP(optional)		]			
Client MAC(optional)		]			
Downlink Speed	Mbits/sec				
Uplink Speed	Mbits/sec				
	Add Clear				
Traffic Manager R	ıles				
Name Client IP	Client MAC	Downlink Speed	Uplink Speed	Edit	Delete
					Save

# Status

In the **Status Section** screen, the user can monitor and view configuration settings of the access point. Here the user can also view statistics about client information, WDS information and more. The following pages will explain settings found in the Status section in more detail.

# **Device Information**

This page displays information like the current firmware version and Ethernet and wireless parameters, as well as the information regarding CPU and memory utilization.

**Device Information:** This read-only window displays the configuration settings of the DAP-2622, including the firmware version and the device's MAC address.

Device Information	
	Firmware Version:v1.00
Ethernet MAC Address	00:AA:BB:CC:DD:10
Wireless MAC Address(2.4GHz):	Primary: 00:AA:BB:CC:DD:10
	SSID 1~7: 00:AA:BB:CC:DD:11~00:AA:BB:CC:DD:17
Wireless MAC Address(5GHz):	Primary: 00:AA:BB:CC:DD:18
	SSID 1~7: 00:AA:BB:CC:DD:19~00:AA:BB:CC:DD:1F
Ethernet	
IP Address	192.168.0.174 Refresh
Subnet Mask	255.255.255.0
Default Gateway	192.168.0.1
DNS	192.168.0.1
Wireless(2.4GHz)	
Network Name (SSID)	dlink
Channel	Ch 11 (Auto)
Data Rate	Best(Up to 300) Mbps
Security	No Authentication / No Encryption
Wireless(5GHz)	
Network Name (SSID)	dlink
Channel	Ch 36 + 40 + 44 + 48 (Auto)
Data Rate	Best(Up to 867) Mbps
Security	No Authentication / No Encryption
Device Status	
CPU Utilization	7%
Memory Utilization	58%
Nuclias Connect	
Connection Status	Disconnected
Server IP	
Server Port	

## **Client Information**

This page displays information for associated clients, such as their SSID, MAC, band, authentication method, signal strength, and power saving mode.

<b>Client Information:</b>	This window displays the wireless client
	information for clients currently connected
	to the DAP-2622.

- **SSID:** Displays the SSID of the client.
- MAC: Displays the MAC address of the client.
- **Band:** Displays the wireless band that the client is connected to.
- Authentication: Displays the type of authentication being used.
  - **RSSI:** Displays the client's signal strength.
- **Power Saving Mode:** Displays the status of the power saving feature.
  - System Info: Displays the associated client's information for the network.

Client Information							
Client Information Station association (2.4GHz): 0							
SSID	MAC	Band	Authentication	RSSI	Power Saving Mode	System Info	
No wireless clien	t						
Client Information Station association (5GHz): 0							
SSID	MAC	Band	Authentication	RSSI	Power Saving Mode	System Info	
No wireless clien	t						

# **WDS Information Page**

This page displays the access point's SSID, MAC, band, authentication method, signal strength, and status.

- **WDS Information:** This window displays the Wireless Distribution System information for clients currently connected to the DAP-2622.
  - Name: Displays the SSID of the client.
  - MAC: Displays the MAC address of the client.
  - Authentication: Displays the type of authentication being used.
    - **Signal:** Displays the client's signal strength.
    - Status: Displays the status of the power saving feature.

WDS Information						
WDS Information	Channel: 4					
Name	MAC	Authentication	Signal	Status		
WDS Information	Channel: 40					
Name	MAC	Authentication	Signal	Status		

# Stats Page Ethernet Traffic Statistics

Displays wired interface network traffic information.

**Ethernet Traffic Statistics:** This page displays transmitted and received statistics for packets and bytes.

D-Link <sup>®</sup>					DAP-2622
🛊 Home 🌠 Maintena	ice 🔻	🔚 Configurati	ion 👻	🐑 System 🛛 🛛 Logout	🕐 Help
DAP-2622	Eth	ernet Traffic Sta	itistics		
					Refresh
Performance			LAN1	LAN2	LAN3
Wireless Resource	Trans	mitted Count			
È Multi-SSID È VLAN	Tran	smitted Packet Count	32556	101901	101898
Intrusion	Tran	smitted Bytes Count	19472999	6679733	6679525
				0	0
ARP Spoofing Prevention		ped Packet Count	0	U	U
Bandwidth Optimization		ived Count eived Packet Count	194698	0	
Captive Portal     Authentication Settings			194098	U	
Login Page Upload	Rece	eived Bytes Count	40635650	0	
MAC Bypass	Drop	ped Packet Count	0	0	
DHCP Server					
Dynamic Pool Settings     Static Pool Settings					
Current IP Mapping List					
🖻 🃁 Filters					
Wireless MAC ACL					
IP Filter Settings					
Traffic Control					
Uplink/Downlink Setting	s				
Status					
Device Information					
Client Information					

# **WLAN Traffic Statistics**

Displays throughput, transmitted frame, received frame, and WEP frame error information for the AP network.

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

D-Link <sup>®</sup>				DAP-2622			
🔶 Home 🥻 Maintenance	👻 📙 Configuration 🔻	🖌 😂 System	🖉 Logout	🕐 Help			
DAP-2622	WLAN Traffic Statistics		_				
Advanced Settings				Refresh			
Performance		2.4GHz	5GHz				
Wireless Resource	Transmitted Count						
VLAN							
	Transmitted Packet Count	0	3268				
Schedule	Transmitted Bytes Count	0	1255848				
Internal RADIUS Server     ARP Spoofing Prevention	Dropped Packet Count	100509	0				
Bandwidth Optimization	Transmitted Retry Count	0	0				
Authentication Settings	Received Count						
MAC Bypass	Received Packet Count	0	1322				
DHCP Server	Received Bytes Count	0	380172				
Static Pool Settings	Dropped Packet Count	1	0				
Current IP Mapping List     Filters	Received CRC Count	1928337	61623				
Wireless MAC ACL	Received Decryption Error Count	1	0				
WLAN Partition	Received MIC Error Count	0	0				
Traffic Control	Received PHY Error Count	39	23				
Duplink/Downlink Settings DoS							
Traffic Manager							
🖻 🎾 Status							
Device Information							

# **Log** View Log

The AP's embedded memory holds logs here. The log information includes but is not limited to the following items: upgrading firmware, clients associating and disassociating with AP, and logins to the web UI. The page holds up to 500 logs.

View Log: The AP's embedded memory displays system and network messages, including a timestamp and message type.

D-Link <sup>®</sup>								DAP-	2622
🔶 Home 🛛 🐒 Maintenan	ce 🔻	E c	onfiguration 👻	-	System		Logout	0	Help
DAP-2622	View I	oa							
Basic Settings		3							
Advanced Settings	First Pa	ige La	st Page Prev	ious Ne:	xt Clear				
Performance									
Wireless Resource	Page 1 of 2								
	Date a	nd Time			Mess	ane			
VLAN		13:54:03	Web login succ	ess from IP="					
Intrusion Schedule	Oct 22	08:05:20	5GHz, Disasso APMAC=00:aa	ciate, STA (M	AC=40:4e:36:		=192.168.0	.236, reaso	n=3),
ARP Spoofing Prevention	Oct 22	08:05:20		5GHz, Received Deauth, STA (MAC=40:4e:36:9c:8b:b3, IP=192.168.0.236, reason=3), AP MAC=00:aa:bb:cc:dd:18. Network=					
Bandwidth Optimization	Oct 22	07:40:20	External DHCP Server assign IP=192.168.0.236 to client (MAC=40:4e:36:9c:8b:b3)						
Captive Portal     Authentication Settings     Login Page Upload     MAC Bypass	Oct 22	07:40:16	Association Success, STA (MAC=40:4e:36:9c:8b:b3), APMAC=00:aa:bb:cc:dd:18, Network=					d:18,	
	Oct 22	07:40:16	5GHz, Received associate, STA (MAC=40:4e:36:9c:8b:b3), APMAC=00:aa:bb:cc:dd:18, Network=						
DHCP Server	Oct 21	Oct 21 17:25:11 Web login success from IP=192.168.0.228 with HTTP							
Dynamic Pool Settings	Oct 21	Oct 21 16:57:47 Web login success from IP=192.168.0.228 with HTTP							
Current IP Mapping List	Oct 21	16:30:11	Web login success from IP=192.168.0.228 with HTTP						
E filters	Oct 21	16:23:16	Web login success from IP=192.168.0.228 with HTTP						
Wireless MAC ACL	Oct 21	16:18:56	DHCP, Client (MAC=00:aa:bb:cc:dd:10) gets IP=192.168.0.174						
WLAN Partition	Oct 21	16:18:54	DHCP, Client (I IP=192.168.0.1			ceives ACK	from serve	r,	
E fraffic Control		16:18:54	DHCP, Client (MAC=00:aa:bb:cc:dd:10) sends REQUEST, Request IP=192.168.0.174 from server						
Uplink/Downlink Settings	Oct 21	16:18:54	DHCP, Client (I	MAC=00:aa:b	b:cc:dd:10) red	ceives OFFE	ER from se	rver	
Traffic Manager	Oct 21	16:18:54	DHCP, Client (I	MAC=00:aa:b	b:cc:dd:10) se	nds DISCO	VER		
⊡ ∰ Status	Oct 21	16:18:54	Ethernet eth0 L	INK UP					
Device Information	Oct 21	16:18:50	DHCP, Client (I	MAC=00:aa:b	b:cc:dd:10) pe	rforms a DH	ICP renew		
Client Information	Oct 21	16:18:45	DHCP, Client (I	MAC=00:aa:b	b:cc:dd:10) pe	rforms a DH	ICP renew		
WDS Information	Oct 21	16:18:45	Ethernet eth0 L	INK DOWN					
E 📂 Statistics	Oct 21	16:18:44	Web login failu	re from IP=19	2.168.0.228 w	ith HTTP			

# Log Settings

Enter the log server's IP address to send the log to that server. Check or uncheck **System Activity**, **Wireless Activity**, or **Notice** to specify what kind of log type you want.

Log Server/IP Address:	Enter the IP address of the server you would like to send the DAP-2622 log to.	D-Link
Log Type:	Check the box for the type of activity you want to log. There are three types: <b>System Activity, Wireless Activity,</b> and <b>Notice</b> .	Advanced Settings Advanced Settings Performance Wireless Resourd Wireless Resourd VLAN Intrusion Schedule
E-mail Notification:	The DAP-2622 supports Simple Mail Transfer Protocol for log scheduling and periodical key changing. It does not support Gmail SMTP port 465. Please set to Gmail SMTP port 25 or 587.	Internal RADIUS     ARP Spoofing Pr     Bandwidth Optim     Captive Portal     Athentication     Athentication     MAC Bypass     OHCP Server     Dynamic Poo     Static Pool Se
E-mail Log Schedule:	Use the drop-down menu to set the e-mail schedule.	Current IP Ma Filters Wireless MAC WLAN Partitio IP Filter Setti Filters Status Traffic Control Traffic Control Traffic Manag CoS Traffic Manag

D-Link			DAP-2622
🛊 Home 🕺 🕺 Maintenance	e 👻 🔚 Configuration	👻 🤤 System 🛛 🖉 Li	ogout 💿 Help
DAP-2622	Log Settings		_
General Contents     Gene	Log Settings		
Wireless Resource	Log Server Settings		
VLAN	Log Type	System Activity	
Schedule		Attacks	
ARP Spoofing Prevention		Votice	
E 💋 Captive Portal	EU directive Syslog Server Sett	ings	
Authentication Settings	Log Server / IP Address		
DHCP Server	Email Notification		
Static Pool Settings	Email Notification		
Filters	Outgoing mail server (SMTP)	Internal 💙	
Wireless MAC ACL	Authentication		
IP Filter Settings ⊡- ∰ Traffic Control	SSL/TLS		
📑 Uplink/Downlink Settings 📑 QoS	From Email Address		
Traffic Manager	To Email Address		
Status     Device Information	Email Server Address		
Client Information	SMTP Port		
	Account		
Ethernet	Password		
WLAN ⊡-12 Log	Confirm Password		
	Email Log Schedule		
Log Settings	Eman Log Schedule.		
	Schedule	0 V hours or when Log is full	
			Save

	Click the drop-down menu to select the SMTP server type, options include: Internal, Gmail, Hotmail.	D-Link Maintenanc	e - Configuration ·	🕶 💝 System 💋 Logout
Authentication	Check the box to enable the authentication of the email notification.	Basic Settings     Advanced Settings     Performance     Wireless Resource	Log Settings	
SSL/TLS	Check the box to enable the SSL/TLS function.	Multi-SSID  VLAN  Intrusion  Schedule  Internal RADIUS Server	Log Server / IP Address Log Type	System Activity
From Email Address	Enter the email address of the account you would like to send the log.	ARP Spoofing Prevention	— EU directive Syslog Server Setti	Notice
To Email Address	Enter the email address of the account you would like to send the log.	Authentication Settings	Log Server / IP Address Email Notification	
Email Server Address	Enter the IP address of the server you would like to send the log.	Static Pool Settings Current IP Mapping List Filters Wireless MAC ACL	Email Notification Outgoing mail server (SMTP)	Internal V
SMTP Port	Enter the SMTP port of the email server.	WLAN Partition	Authentication	
Account	Enter the user name of the of the listed email address.	Control     Control     Oplink/Downlink Settings     OoS     Traffic Manager     Status	From Email Address To Email Address	
Password	Enter the password set for the email notification.	Client Information	Email Server Address SMTP Port Account	
Confirm Password	Retype the password entry to confirm the password.	Ethernet WLAN Cog View Log Log Settings	Password Confirm Password Email Log Schedule	
			Schedule	0 V hours or when Log is full

Save

DAP-2622

# **Maintenance Section**

In the **Maintenance** section, you can configure miscellaneous settings for the DAP-2622. The following pages will explain settings found in this section in more detail.

<b>D-Link</b>						DAP-	2622
🏠 Home 🥻 Maintenan	ce 🔻	📙 Configuration 👻	💝 System		Logout	0	Help
P DAP-2622	Ad	ministration Settings	_	_	_	_	
⊡- 🥟 Basic Settings 📄 Wireless	Lim	it Administrator 🗖					
LAN ■ IPv6	Syst	em Name Settings 🗖					
<ul> <li>Advanced Settings</li> <li>Performance</li> <li>Wireless Resource</li> </ul>	Log	in Settings 🗖					
Multi-SSID	Con	sole Settings 🗖					
Intrusion Schedule Internal RADIUS Server	Ping	control Settings					
ARP Spoofing Prevention	LEI	) Settings					
Captive Portal	Cou	ntry Settings 🗖					
MAC Bypass	DDI	? Settings					
DHCP Server	Nuc	lias Connect Settings 🗖					
Static Pool Settings	Sav	re					

# Administration Limit Administrator

### Limit Administrator VLAN Check the box provided and the enter

- ID: the VLAN ID that the administrator will be allowed to log in from.
- Limit Administrator IP: Check to limit the range of IPs that the administrator will be allowed to log in from.
  - IP Range: Enter the IP address range that the administrator will be allowed to log in from and then click the **Add** button.

Limit Administrator 🛛			
Limit Administrator VLAN ID	Enable	1	
Limit Administrator IP	Enable		
IP Range	From:	To: Add	d
Item From	То	Delete	

## System Name Settings

System Name:	The name of the device. The default
	name is <b>dap2622</b> .

- **Location:** The physical location of the device (e.g. 72nd Floor, D-Link HQ).
- MDNS Name: The MDNS name of the device. The default name is **dap2622**.

System Name Settings 🔽	
System Name	dap2622
Location	
MDNS Name	dap2622

# **Login Settings**

- Login Name: Enter a username for the web UI. The default is **admin**.
- New Password: When changing your password, enter the new password here. The password is case-sensitive. The length should be between 8 and 30 characters.

Login Settings 🗹		
Login Name	admin	
New Password	•••••	(8-30Characters)
Confirm Password	••••• Password	(Confirm) Apply New

**Confirm Password:** Enter the new password a second time for confirmation purposes.

## **Console Settings**

- Status: This 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,<br/>15 Mins or Never.

Console Settings 🗹	
Status	C Enable
Console Protocol	
Login Timeout	3 Mins V
	·

# **Ping Control Setting**

Status: Check the box to enable Ping control. Ping works by sending ICMP "echo request" packets to the target host and listening for a response.

Ping Control Settings	<b>~</b>	
Status	Enable	

# **LED Settings**

LED Status: Click **On** or **Off** to enable or disable the LED status display.

LED Settings 🗹		
LED Status	● On ○ Off	

## **DDP Control Setting**

Status:	Check the box to enable the DDP control.	
	This is enabled by default.	

DDP Settings 🗹	
Status	Enable

## **Country Settings**

Select a Country: Select the country your network is located in from the drop-down menu.



## **Nuclias Connect Setting**

**Enable Nuclias Connect:** Check this box to configure the DAP-2622 with Nuclias Connect.

Nuclias Connect Settings	4
Enable Nuclias Connect	Disable 🗸

# Firmware and SSL Upload

This page allows the user to perform a firmware upgrade. A firmware upgrade is a function that upgrade the running software used by the access point. This is a useful feature that prevents future bugs and allows for new features to be added to this product. Please go to your local D-Link website to see if there is a newer version firmware available.

Local Hard Drive:	The current firmware version is displayed above the file location field. After the	D-Link Maintenance - Configuration - System 🛛 Logout			2 Logout	DAP-2622
	latest firmware is downloaded, click on the <b>Choose File</b> button to locate the new firmware. Once the file is selected, click on the <b>Upload</b> button to begin updating the firmware. Don't turn the power off while upgrading.	Advanced Settings     Advanced Settings	Firmware and SSL Certification Upload Update Firmware From Local Hard Drive Firmware Version v1.00 Upload Firmware From File : Choose File No file chosen Update Language Pack Upgrade			
Language Pack Upgrade:	Select a file with a language pack to upload to the access point.		Upload : Update SSL Certification From	Choose File No file chosen	Update	_
Upload SSL Certification from Local Hard Drive:	After you have downloaded a SSL certification to your local drive, click <b>Choose File</b> . Select the certification and click <b>Upload</b> to complete the upgrade.	Authentication Settings	Upload Certificate From File : Upload Key From File :	Choose File No file chosen Choose File No file chosen	Update	

# **Configuration File Upload**

This page allows the user to backup and recover the current configuration of the access point in case of a unit failure.

Upload Configuration File:	Browse to the saved configuration file you have in your local drive and click <b>Upload</b> to update the configuration.
Download Configuration File:	Click <b>Download</b> to save the current configuration file to your local disk. Note that if you save one configuration file with the administrator's password now, after resetting your DAP-2622 and then updating to this saved configuration file, the password will be gone.
Upload Nuclias Connect Network File:	Browse to a Nuclias Connect configuration file and click <b>Upload</b> to upload it to the access point.

D-Link <sup>®</sup>		DAP-2622
🛊 Home 🕺 🅻 Maintenar	ce 🔻 📙 Configuration 👻 👙 System 🛛	🖉 Logout 🛛 🕐 Help
DAP-2622	Configuration File Upload and Download	
E Settings	Upload Configuration File	
LAN	Upload File : Choose File No file chosen	Upload
Advanced Settings		
Wireless Resource	Download Configuration File	
Multi-SSID VLAN Intrusion	Load Settings to Local Hard Drive Download	
Schedule	Upload Nuclias Connect Network File	
Internal RADIUS Server     ARP Spoofing Prevention     Bandwidth Optimization	Upload File : Choose File No file chosen	Upload
Captive Portal		

# Time and Date Settings

Enter the NTP server IP, choose the time zone, and enable or disable daylight saving time.

Current Time:	Displays the current time and date settings.	D-Link	DAP-2622
Enable NTP Server:	Check to enable the AP to get system time from an NTP server from the Internet.	Image: Home       Maintenance       Image: Configuration       Image: System       Image: Sys	2 Logout 🛛 🕅 Help
NTP Server:	Enter the NTP server IP address.	LAN PV6 Current Time 2020/10/22 16:56:49 Advanced Settings	
Time Zone:	Use the drop-down menu to select your time zone.	Performance     Automatic Time Configuration       Wireless Resource     Enable NTP       VLAN     Enable NTP       Intrusion     NTP Server	
Set the Date and Time Manually:	You can either manually set the time for the AP here, or click the <b>Copy Your Computer's</b> <b>Time Settings</b> button to copy the time from the computer in use. (Make sure that the computer's time is set correctly.)	Schedule       Time Zone       (GMT) Greenwich Mean Time : Dublin, Edinburgh,         ARP Spoofing Prevention       Set the Date and Time Manually         ARP Spoofing Prevention       Set the Date and Time Manually         Authentication Settings       Year       2020 V         Add Bypass       Hour       16 V       Minute         DHCP Server       Copy Your Computer's Time Settings       Copy Your Computer's Time Settings	
Enable Daylight Saving:	Check the box to enable Daylight Saving Time.	Daylight Configuration       Current IP Mapping List       Filters       Wireless MAC ACL       WILAN Partition       Daylight Saving Offset       IP Filter Settings	Hour Minute
	Use the drop-down menu to select the correct Daylight Saving offset.	Image: Second secon	

# **Configuration and System**

These options are the remaining option to choose from in the top menu. Configuration allows the user to save and activate or discard the current configurations. **System** allows the user to restart the unit, perform a factory reset, or clear the language pack settings. **Logout** allows the user to safely log out from the access point's web configuration. **Help** allows the user to read more about the given options to configure without the need to consult the manual. The following pages will explain settings found in the configuration and system section in more detail.

🛕 Home - 🐔 Maintenance 🚽	Configuration 👻	👙 System 💋 Logout 🕧 Help
		•
	Configuration -	stem 💋 Logout 💿
	Save and Activate Discard Changes <mark>tion</mark>	The current browser connection will be disconnected if you click here.

# **System Settings**

On this page the user can restart the unit, perform a factory reset of the access point or clear the added language pack.

Restart the Device:	Click <b>Restart</b> to restart the DAP-2622.	D-Li
•	Click <b>Restore</b> to restore the DAP-2622 back to factory default settings.	Home DAP-2622 DAP-262 DAP-262 DAP-262 DAP-262 DAP-262 DAP-262 DAP-26 DA
Clear Language Pack:	Click to clear the current language pack.	Advanced



# Help

The help page is useful to view a brief description of a function available on the access point in case the manual is not present.

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.

#### Application

This option allows the user to choose for indoor or outdoor mode at the 5G Band.

#### 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 "dink". 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-2553. 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

# **Technical Specifications**

## Standards

- IEEE 802.11ac
- IEEE 802.11n
- IEEE 802.11g
- IEEE 802.11b
- IEEE 802.11a
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.3az
- IEEE 802.3at

## **Network Management**

- Web Browser interface (HTTP, Secure HTTP (HTTPS))
- D-Link Nuclias Connect

### Security

- WPA<sup>™</sup> Personal/Enterprise
- WPA2<sup>™</sup> Personal/Enterprise
- WEP<sup>™</sup> 64-/128-bit

### **Wireless Frequency Range**

• 2.4 to 2.4835 GHz and 5.15 to 5.85 GHz\*\*

## **Operating Voltage**

• 802.3at PoE

## Antenna Type

• 2 internal

## LEDs

Power/Status

## Max. Power Consumption

• 9.5 W, 21.5 W (including PoE output)

### Temperature

- Operating: 0°C to 40°C
- Storing: -20°C to 65°C

### Humidity

- Operating: 10% 90% (non-condensing)
- Storing: 5% 95% (non-condensing)

## Certifications

- CE
- FCC

### Dimensions

- L = 154.1 mm (6 in)
- W = 95 mm (3.7 in)
- H = 27.4 mm (1 in)

# **Antenna Pattern**

