

# NUCLIAS CONNECT DAP-2622 User Guide

V 1.00

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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
- Power Adapter
- Mounting Plate and Hardware
- Ethernet Cable

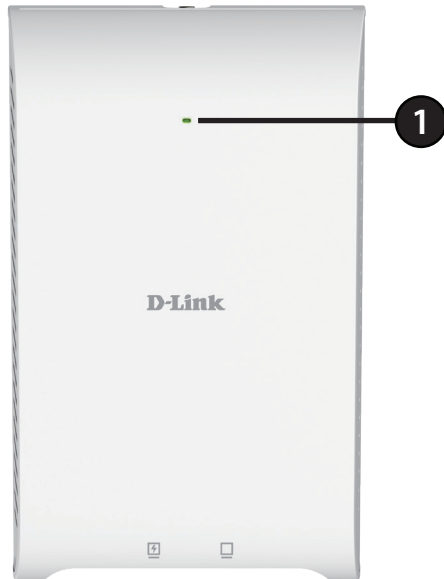
**Note:** *Using a power supply with a different voltage rating than the one included with the DAP-2622 will cause damage and void the warranty for this product.*

## System Requirements

- Computer with Windows®, Macintosh®, 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)

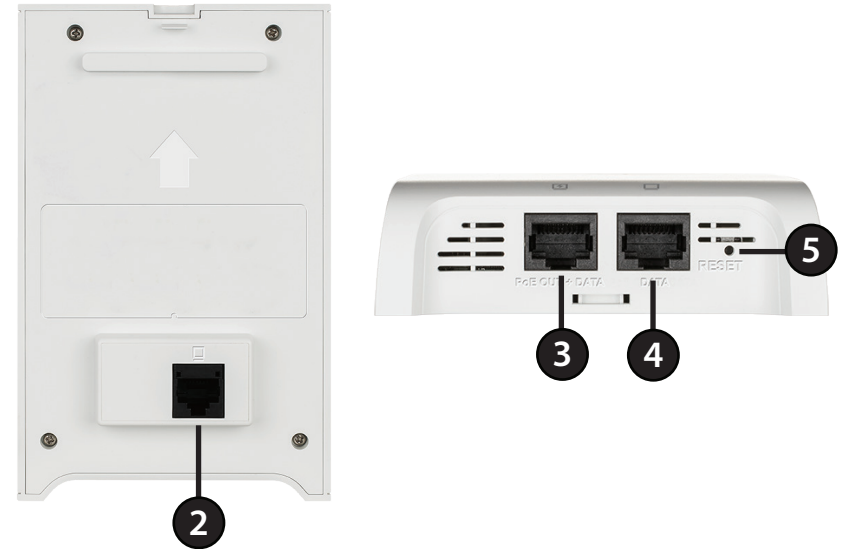
# Hardware Overview

## LEDs



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

## Connections



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

To power the access point, you can use one of the following 2 methods:

**Method 1** - Use if you have a PoE switch or router

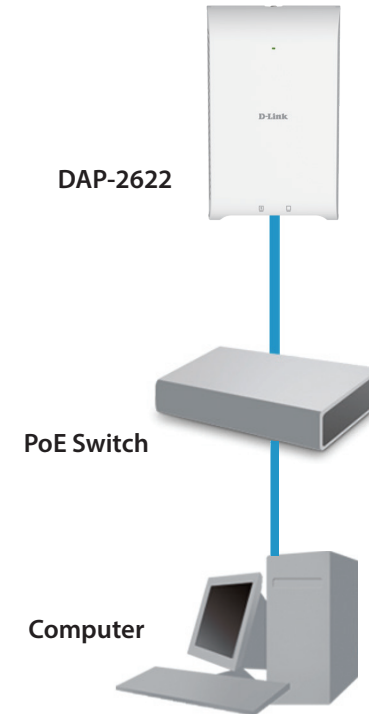
**Method 2** - Use if you have a PoE injector and do not have a PoE-capable switch or router

### Method 1 - PoE with PoE Switch or Router

Plug in one end of your Ethernet cable into the LAN port of the DAP-2622's back panel, and the other end into the port on a switch.

#### Configure the Access Point

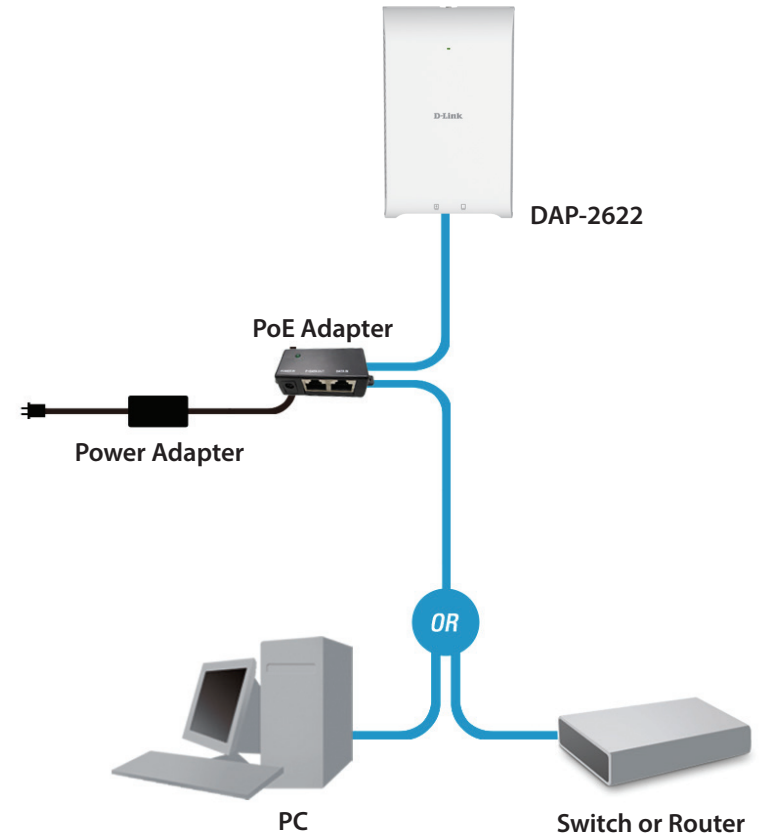
1. Connect the access point and your computer to the same PoE switch. Manage the access point from the computer.
2. Enter **dap2622.local** in the address field of your browser.
3. Log in to the Administration Web pages. The default login information is:  
Username: **admin**  
Password: **admin**





## 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 system Settings...

These settings apply to this access point

New Password

Confirm new password

System Time  Using Network Time Protocol  
 Manually

System Date

System Time(24 HR)  :

Enable Daylight Saving

DST Start(24 HR)   in  at  :

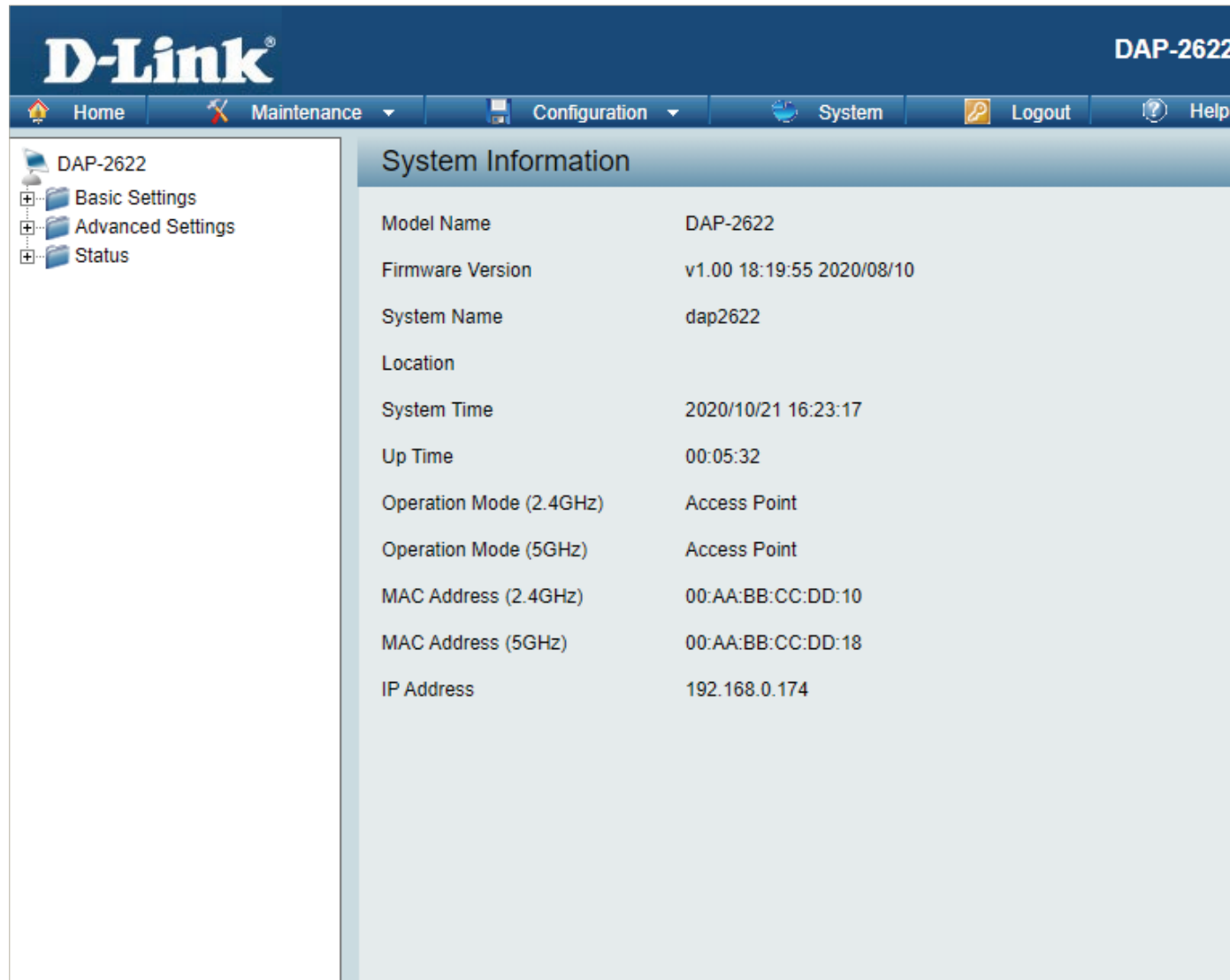
DST End(24 HR)   in  at  :

DST Offset(minutes)

System Country

# 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**.



The screenshot displays the D-Link DAP-2622 web user interface. The top navigation bar includes the D-Link logo, the device name "DAP-2622", and menu items: Home, Maintenance, Configuration, System, Logout, and Help. A left sidebar menu shows "DAP-2622" with sub-items: Basic Settings, Advanced Settings, and Status. The main content area is titled "System Information" and lists the following details:

Model Name	DAP-2622
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.

**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.

The screenshot displays the D-Link DAP-2622 configuration interface. The 'Wireless Settings' section is active, showing the following configurations:

- Wireless Band: 2.4GHz
- Operation Mode: Access Point
- Network Name (SSID): dlink
- SSID Visibility: Enable
- Auto Channel Selection: Enabled
- Channel: 6
- Channel Width: Auto 20/40 MHz
- Authentication: Open System
- 802.11k/v/r: Disable
- Key Settings:
  - Encryption:  Disable  Enable
  - Key Type: ASCII
  - Key Size: 64 Bits
  - Key Index (1~4): 1
  - Network Key: [Empty field]
  - Confirm Key: [Empty field]

A 'Save' button is located at the bottom right of the configuration area.

**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.

## 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.

The screenshot displays the D-Link DAP-2622 configuration web interface. The top navigation bar includes Home, Maintenance, Configuration, System, Logout, and Help. The left sidebar shows a tree view of configuration categories: Basic Settings (Wireless, LAN, IPv6), Advanced Settings (Performance, Wireless Resource, Multi-SSID, VLAN, Intrusion, Schedule, Internal RADIUS Server, ARP Spoofing Prevention, Bandwidth Optimization), Captive Portal, DHCP Server, Filters, Traffic Control, Status (Device Information, Client Information, WDS Information, Statistics, Log). The main content area is titled 'Wireless Settings' and contains the following fields and sections:

- Wireless Band:** 2.4GHz
- Operation Mode:** WDS with AP
- Network Name (SSID):** dlinkwds
- Auto Channel Selection:** Enabled
- Channel:** 6
- Channel Width:** Auto 20/40 MHz
- WDS:** AP MAC Address (empty text box)
- Site Survey:** Scan button
- Authentication:** Open System
- Key Settings:**
  - Encryption:  Disable  Enable
  - Key Type: ASCII
  - Key Size: 64 Bits
  - Key Index (1-4): 1
  - Network Key (empty text box)
  - Confirm Key (empty text box)
  - Character set: (0-9,a-z,A-Z,-!@#%&\*( )\_+\*=[]:;.,/ <> ?)

A 'Save' button is located at the bottom right of the configuration area.

**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.

## 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.

The screenshot displays the D-Link DAP-2622 web interface. The top navigation bar includes Home, Maintenance, Configuration, System, Logout, and Help. The left sidebar shows a tree view of settings categories: Basic Settings (Wireless, LAN, IPv6), Advanced Settings (Performance, Wireless Resource, Multi-SSID, VLAN, Intrusion, Schedule, Internal RADIUS Server, ARP Spoofing Prevention, Bandwidth Optimization), Captive Portal, DHCP Server, Filters, Traffic Control, and Status (Device Information, Client Information, WDS Information, Statistics, Log). The main content area is titled "Wireless Settings" and contains the following configuration options:

- Wireless Band:** 2.4GHz
- Operation Mode:** WDS
- Network Name (SSID):** dlinkwds
- Auto Channel Selection:** Enabled
- Channel:** 6
- Channel Width:** Auto 20/40 MHz
- WDS:**
  - AP MAC Address:** [Empty text box]
- Site Survey:** [Scan button]
- Please wait...**
- Authentication:** Open System
- Key Settings:**
  - Encryption:**  Disable  Enable
  - Key Type:** ASCII
  - Key Size:** 64 Bits
  - Key Index (1~4):** 1
  - Network Key:** [Empty text box]
  - Confirm Key:** [Empty text box]

At the bottom right of the form is a **Save** button.



**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.

## 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**.

The screenshot shows the 'Wireless Settings' page with the following configuration:

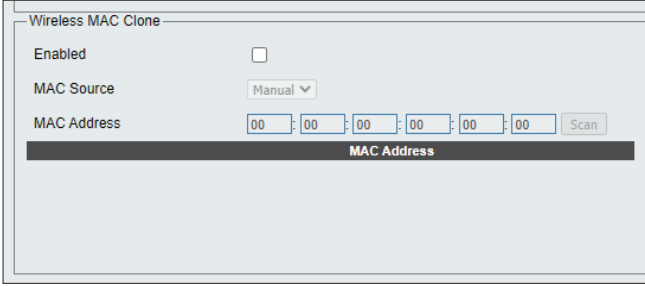
- Wireless Band:** 2.4GHz
- Operation Mode:** Wireless Client
- Network Name (SSID):** (empty)
- SSID Visibility:** Enable
- Auto Channel Selection:** Enabled
- Channel:** 6
- Channel Width:** Auto 20/40 MHz
- Site Survey:** Scan button; Table with columns: Ch, Signal (%), MAC Address, Security, SSID. Note: You can click Scan button to start.
- Authentication:** Open System
- Key Settings:**
  - Encryption:  Disable,  Enable
  - Key Type: ASCII, Key Size: 64 Bits
  - Key Index (1~4): 1
  - Network Key: (empty)
  - Confirm Key: (empty)
  - Placeholder: (0-9,a-z,A-Z,-!@#\$%^&\*()\_+~=:;'./\*<>?)
- Wireless MAC Clone:**
  - Enabled:
  - MAC Source: Manual
  - MAC Address: (00):(00):(00):(00):(00):(00) Scan
  - Placeholder: MAC Address

## 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.



The screenshot shows a web-based configuration window titled "Wireless MAC Clone". It contains the following elements:

- An "Enabled" checkbox, which is currently unchecked.
- A "MAC Source" dropdown menu set to "Manual".
- A "MAC Address" field consisting of six input boxes, each containing "00", followed by a "Scan" button.
- A dark grey bar at the bottom of the form with the text "MAC Address" centered on it.

## 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.

### 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.

The screenshot shows a configuration window for WPA/WPA2. At the top, 'Authentication' is set to 'WPA-Personal' and '802.11k/v/r' is set to 'Disable'. Below this is a 'PassPhrase Settings' section. 'WPA Mode' is set to 'AUTO (WPA or WPA2)'. 'Cipher Type' is set to 'Auto'. 'Group Key Update Interval' is set to '3600 (Sec)'. There are two radio buttons: 'Manual' (selected) and 'Periodical Key Change'. 'Time Interval' is set to '1 (1~168)hour(s)'. There are two empty text input fields for 'PassPhrase' and 'Confirm PassPhrase'. Below the inputs, a notice states: 'notice: 8~63 in ASCII or 64 in Hex. (0-9,a-z,A-Z,~!@#\$%^&\*()\_+~-={}|:~!~./<>?)'. A 'Save' button is located at the bottom right.



## 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

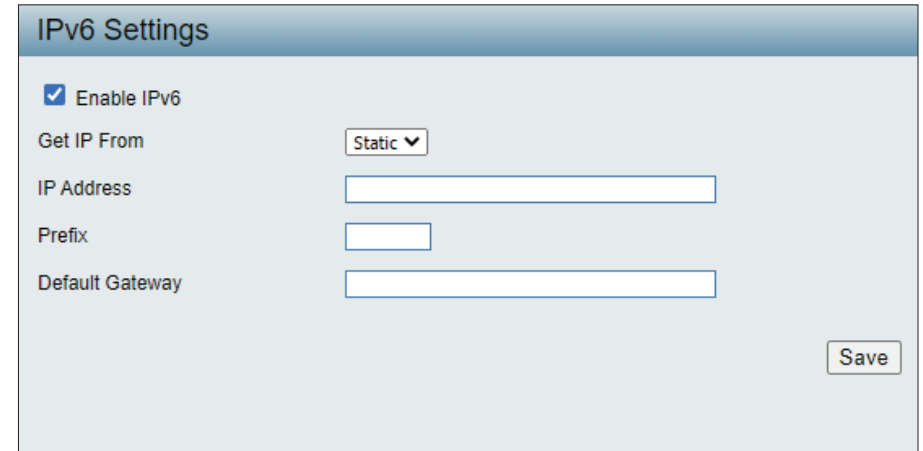
**Enable IPv6:** Check to enable IPv6.

**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.



The screenshot shows the 'IPv6 Settings' configuration page. At the top, there is a header 'IPv6 Settings'. Below it, there is a checked checkbox labeled 'Enable IPv6'. Underneath, there is a 'Get IP From' dropdown menu currently set to 'Static'. Below the dropdown are three input fields: 'IP Address', 'Prefix', and 'Default Gateway'. A 'Save' button is located in the bottom right corner of the form area.



# 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.

The screenshot displays the D-Link DAP-2622 web management interface. The top navigation bar includes 'Home', 'Maintenance', 'Configuration', 'System', 'Logout', and 'Help'. The left sidebar shows a tree view of settings categories: Basic Settings (Wireless, LAN, IPv6), Advanced Settings (Performance, Wireless Resource, Multi-SSID, VLAN, Intrusion, Schedule, Internal RADIUS Server, ARP Spoofing Prevention, Bandwidth Optimization), Captive Portal, DHCP Server, Filters, Traffic Control, and Status (Device Information, Client Information, WDS Information, Statistics, Log). The main content area is titled 'Performance Settings' and contains the following configuration options:

Wireless Band	2.4GHz
Wireless	On
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 Mbps
Multicast Bandwidth Control	Disable
Maximum Multicast Bandwidth	100 kbps
HT 20/40 Coexistence	Enable
Transfer DHCP Offer to Unicast	Disable

A 'Save' button is located at the bottom right of the settings area.

## Performance

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

**Wireless Band:** Select either **2.4GHz** or **5GHz**.

**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	On ▼
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 ▼ 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 (2.4 GHZ, 64~200):** To effectively optimize throughput over long-distance links, enter a value for Acknowledgement Time Out between 25 and 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 Control:** Adjust the multicast packet data rate here. The multicast rate is supported in **AP mode**, and **WDS with AP mode**, including Multi-SSIDs.

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

**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 Unicast:** Enable to transfer the DHCP Offer to Unicast from LAN to WLAN. Enable this function if the number of stations on your network 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.

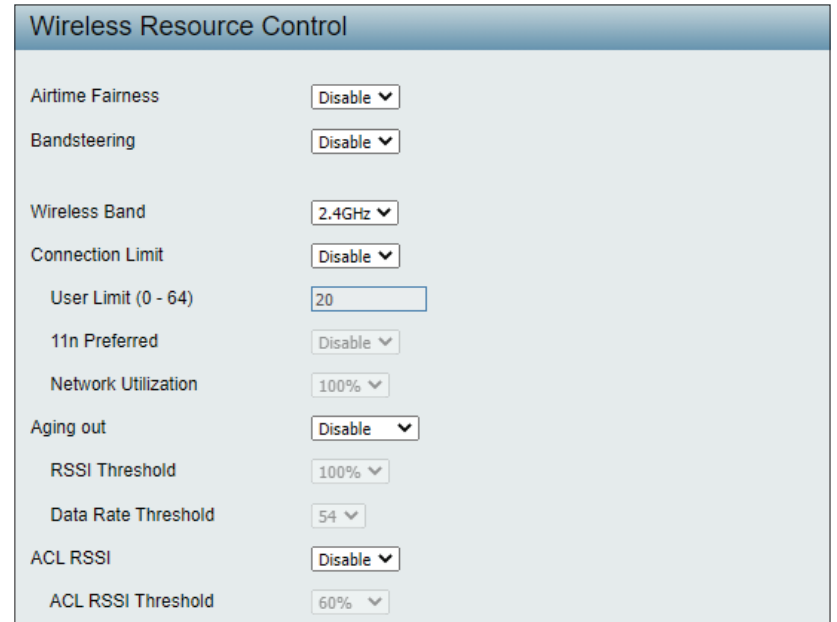
**Wireless band:** Select **2.4GHz** or **5GHz**.

**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.

**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.



The screenshot shows the 'Wireless Resource Control' configuration window. It contains the following settings:

Setting	Value
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%

**Aging out:** Use the drop-down menu to select the criteria of disconnecting the wireless clients. Available options are **RSSI** and **Data 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 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 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 four multiple Service Set Identifiers. You can set the Primary SSID in the **Basic > Wireless** section. The SSID's factory default setting is **dlink**. The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network.

**Enable 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.

**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.

**Priority:** Select the priority level of the SSID selected.

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

### Multi-SSID Settings

Enable Multi-SSID
  Enable Priority

Wireless Settings

Band: 2.4GHz

Index: Primary SSID

SSID: dlink

SSID Visibility: Enable

Security: Open System

Priority: 0

WMM (Wi-Fi Multimedia): Enable

Key Settings

Encryption:  Disable  Enable

Key Type: ASCII      Key Size: 64 Bits

Key Index (1~4): 1

Network Key:

Confirm Key:

(0-9,a-z,A-Z,~!@#%&\*()\_+ '-= {} | ; : " , / < > ?)

Index	SSID	Band	Authentication Method	Encryption Type	Delete
Primary SSID	dlink	2.4G Hz	No Authentication	No Encryption	

**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.

VID	VLAN Name	Untag VLAN Ports	Tag VLAN Ports	Edit	Delete
1	default	Mgmt, LAN1, LAN2, LAN3, Primary(2.4G), S-1(2.4G), S-2(2.4G), S-3(2.4G), S-4(2.4G), S-5(2.4G), S-6(2.4G), S-7(2.4G)	Primary(5G), S-1(5G), S-2(5G), S-3(5G), S-4(5G), S-5(5G), S-6(5G), S-7(5G)	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 Settings

VLAN Status :  Disable  Enable Save

VLAN Mode : Static(2.4G), Static(5G)

VLAN List **Port List** Add/Edit VLAN PVID Setting

Port Name	Tag VID	Untag VID	PVID
Mgmt	1	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.

**VLAN Settings**

VLAN Status :  Disable  Enable Save

VLAN Mode : Static(2.4G), Static(5G)

VLAN List | Port List | **Add/Edit VLAN** | PVID Setting

VLAN ID (VID)  VLAN Name

Port	Select All	Mgmt	LAN1	LAN2	LAN3
Untag	All	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tag	All	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not Member	All	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

2.4GHz

MSSID Port	Select All	Primary	S-1	S-2	S-3	S-4	S-5	S-6	S-7
Untag	All	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tag	All	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not Member	All	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

5GHz

MSSID Port	Select All	Primary	S-1	S-2	S-3	S-4	S-5	S-6	S-7
Untag	All	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tag	All	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not Member	All	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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 Status:** Click the radio button to enable or disable 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 Settings

VLAN Status :  Disable  Enable Save

VLAN Mode : Static(2.4G), Static(5G)

VLAN List | Port List | Add/Edit VLAN | **PVID Setting**

PVID Auto Assign Status  Disable  Enable

Port	Mgmt	LAN1	LAN2	LAN3
PVID	1	1	1	1

2.4GHz

MSSID Port	Primary	S-1	S-2	S-3	S-4	S-5	S-6	S-7
PVID	1	1	1	1	1	1	1	1

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	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**.

The screenshot shows the D-Link DAP-2622 configuration interface. The main content area is titled "Wireless Intrusion Protection". It features a "Wireless Band" dropdown menu currently set to "2.4GHz". Below this is a "Detect" button. An "AP List" dropdown menu is set to "All". A table displays the detected APs with the following columns: Type, Band, CH, SSID, BSSID, Last Seen, and Status. The table contains three entries, all of which are "New". Below the table are four buttons: "Set as Valid", "Set as Neighborhood", "Set as Rogue", and "Set as New". At the bottom, there are two radio buttons: "Mark All New Access Points as Valid Access Points" and "Mark All New Access Points as Rogue Access Points". A "Save" button is located at the bottom right of the configuration area.

Type	Band	CH	SSID	BSSID	Last Seen	Status
<input type="checkbox"/> New	b/g/n	1	RADTEST	00:AD:24:36:79:56	2020-10-21 16:34:31	
<input type="checkbox"/> New	b/g/n	1	dlink-A0D2	C4:E9:0A:6F:A0:D3	2020-10-21 16:34:31	
<input type="checkbox"/> New	b/g/n	1	mt7603e-B5CE	78:A3:51:1D:B5:CC	2020-10-21 16:34:31	

## 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.

The screenshot displays the D-Link DAP-2622 configuration page for 'Wireless Schedule Settings'. The left sidebar shows a tree view with 'Schedule' selected under 'Advanced Settings'. The main panel has a 'Wireless Schedule' dropdown menu currently set to 'Disable'. Below this is a section for adding a new rule, with fields for 'Name', 'SSID Index' (set to 'Primary SSID 2.4G'), and 'SSID' (set to 'dlink'). The 'Day(s)' section offers two options: 'All Week' (unselected) and 'Selects Day(s)' (selected), with checkboxes for each day of the week. There are also checkboxes for 'All Day(s)', 'Start Time', and 'End Time' (with an 'Overnight' checkbox). A 'Schedule List' table is visible at the bottom, with columns for Name, SSID Index, SSID, Day(s), Time Frame, Wireless, Edit, and DEL. A 'Save' button is located at the bottom right of the page.

## 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.

**User Name:** Enter a name to authenticate user access to the internal RADIUS server.

**Password:** Enter a password to authenticate user access to the internal RADIUS server. The length of your password should be 8 to 64 characters.

**Status:** Toggle the drop-down menu between **Enable** and **Disable**.

**RADIUS Account List:** Displays the list of users.

The screenshot displays the D-Link DAP-2622 web interface. The top navigation bar includes 'Home', 'Maintenance', 'Configuration', 'System', 'Logout', and 'Help'. The left sidebar shows a tree view of configuration options, with 'Internal RADIUS Server' selected under 'Advanced Settings'. The main content area is titled 'Internal RADIUS Server' and contains the following sections:

- RADIUS Accounts (Max: 256 users)**: A form with three fields: 'User Name' (4-16 characters), 'Password' (6-32 characters), and 'Status' (a dropdown menu currently set to 'Enable').
- RADIUS Account list**: A table with columns for 'User Name', 'Enable', 'Disable', and 'Delete'. The table currently shows 'No user entries'.
- A 'Save' button is located at the bottom right of the configuration area.

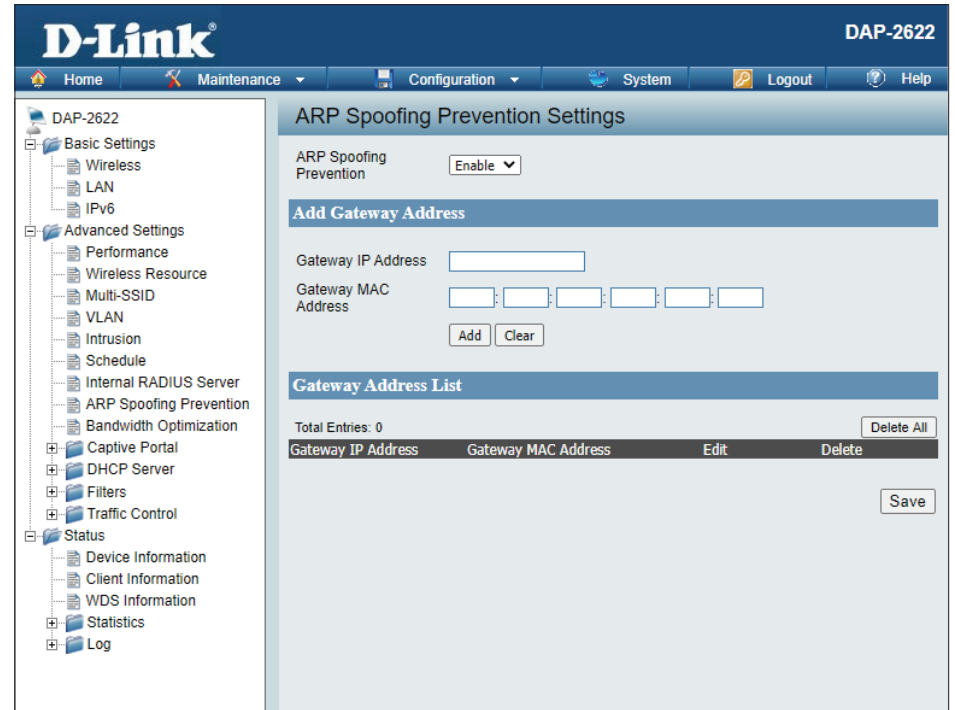
## ARP Spoofing Prevention

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.



## 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.

**Enable Bandwidth Optimization:** Use the drop-down menu to enable the Bandwidth Optimization function.

**Downlink Bandwidth:** Enter the downlink bandwidth of the device in Mbits per second.

**Uplink Bandwidth:** Enter the uplink bandwidth of the device in Mbits per second.

**Rule Type:** 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 **Allocate specific BW for SSID**. The rules are described below.

**Allocate average BW for each station:** The AP will distribute average bandwidth for each client.

**Allocate maximum BW for each station:** Specify the maximum bandwidth for each connected client. Reserve certain bandwidth for future clients.

**Allocate different BW for a/b/g/n stations:** 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.

The screenshot shows the D-Link DAP-2622 web interface. The main configuration area is titled "Bandwidth Optimization". It includes the following fields and options:

- Enable Bandwidth Optimization:** A dropdown menu set to "Disable".
- Downlink Bandwidth:** A text input field containing "80" with "Mbits/sec" to its right.
- Uplink Bandwidth:** A text input field containing "80" with "Mbits/sec" to its right.
- Add Bandwidth Optimization Rule:** A section with a dropdown menu for "Rule Type" set to "Allocate average BW for each station". Below it are dropdown menus for "Band" (set to "2.4GHz") and "SSID Index" (set to "Primary SSID"). There are also text input fields for "Downlink Speed" and "Uplink Speed", both with "Kbits/sec" units. "Add" and "Clear" buttons are located below these fields.
- Bandwidth Optimization Rules:** A table with columns: Band, Type, SSID Index, Downlink Speed, Uplink Speed, Edit, and Delete. The table is currently empty.
- A "Save" button is located at the bottom right of the configuration area.



**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 (1-1440):** Enter the session timeout value here. This value 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. The options to choose from are **Web Redirection, Username/Password, Passcode, Remote RADIUS, LDAP** and **POP3**. In this section we'll discuss the **Web Redirection** option.

**Web Redirection State:** Default setting is **Enable** when select Web Redirection Only.

**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.

The screenshot displays the D-Link DAP-2622 web interface for Captive Portal Authentication. The left sidebar shows a tree view with 'Captive Portal' expanded to 'Authentication Settings'. The main panel shows the following configuration:

- Session Timeout (1-1440):** 60 Minute(s)
- Band:** 2.4GHz
- SSID Index:** Primary SSID
- Authentication Type:** Web Redirection Only
- Web Redirection Interface Settings:**
  - 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:** [ ]

At the bottom right, there is a 'Save' button. Below the form, there are tabs for 'Band', 'SSID Index', 'Captive Profile', 'Edit', and '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.

## 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 (1-1440):** Enter the session timeout value here. This value 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. The options to choose from are **Web Redirection, Username/Password, Passcode, Remote RADIUS, LDAP** and **POP3**. In this section we'll discuss the Username/Password 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.

**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 timeout(1-1440):** Enter the session timeout value here. This value 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. Options to choose from are **Web Redirection, Username/Password, Passcode, Remote RADIUS, LDAP** and **POP3**. In this section we'll discuss the **Passcode** 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.

The screenshot displays the D-Link DAP-2622 web interface. The left sidebar shows a navigation tree with 'Captive Portal' expanded to 'Authentication Settings'. The main content area is titled 'Captive Portal Authentication' and contains the following settings:

- Session Timeout (1-1440):** 60 Minute(s)
- Band:** 2.4GHz
- SSID Index:** Primary SSID
- Authentication Type:** Passcode

Below these are sections for 'Web Redirection Interface Settings' and 'IP Interface Settings':

- Web Redirection Interface Settings:**
  - Web Redirection State: Enable
  - URL Path: http://
- IP Interface Settings:**
  - IPIF Status: Disable
  - VLAN Group: (empty)
  - Get IP From: Static IP (Manual)
  - IP Address: (empty)
  - Subnet Mask: (empty)
  - Gateway: (empty)
  - DNS: (empty)

The 'Passcode Settings' section includes:

- Passcode Quantity: (empty)
- Duration: (empty) Hour
- Last Active Time: Year 2020, Month Jan, Day 1, Hour 1:00
- User Limit: (empty)
- Buttons: Add, Clear

At the bottom, there is a table with columns: Passcode, Duration, Last Active Time, User Limit, and Delete. A 'Delete All' button is also present. A 'Save' button is located at the bottom right of the interface.

**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 **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. Options to choose from are **Web Redirection, Username/Password, Passcode, Remote RADIUS, LDAP** and **POP3**. In this section we'll discuss the Remote RADIUS 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.

**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.

**Captive Portal Authentication**

Session Timeout (1-1440)  Minute(s)

Band

SSID Index

Authentication Type

**Web Redirection Interface Settings**

Web Redirection State

URL Path

**IP Interface Settings**

IPIF Status

VLAN Group

Get IP From

IP Address

Subnet Mask

Gateway

DNS

**Remote RADIUS Settings**

**Radius Server Settings**

RADIUS Server  Radius Port

Shared Secret

Remote RADIUS Type

**Secondary radius Server Settings**

RADIUS Server  Radius Port

Shared Secret

Remote RADIUS Type

**Third radius Server Settings**

RADIUS Server  Radius Port

Shared Secret

Remote RADIUS Type



**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.

**Session timeout (1-1440):** Enter the session timeout value here. This value 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. Options to choose from are **Web Redirection, Username/Password, Passcode, Remote RADIUS, LDAP** and **POP3**. In this section we'll discuss the LDAP 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.

**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.

**Captive Portal Authentication**

Session Timeout (1-1440)  Minute(s)

Band

SSID Index

Authentication Type

**Web Redirection Interface Settings**

Web Redirection State

URL Path

**IP Interface Settings**

IPIF Status

VLAN Group

Get IP From

IP Address

Subnet Mask

Gateway

DNS

**LDAP Settings**

Server

Port

Authenticate Mode

User Name

Password

Base DN  (ou=,dc=)

Account Attribute  (ex.cn)

Identity   Auto Copy

Band    SSID Index    Captive Profile    Edit    Delete

**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 **Auto Copy** 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 (1-1440):** Enter the session timeout value here. This value 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. Options to choose from are **Web Redirection, Username/Password, Passcode, Remote RADIUS, LDAP** and **POP3**. In this section we'll 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 Authentication**

Session Timeout (1-1440)  Minute(s)

Band

SSID Index

Authentication Type

**Web Redirection Interface Settings**

Web Redirection State

URL Path

**IP Interface Settings**

IPIF Status

VLAN Group

Get IP From

IP Address

Subnet Mask

Gateway

DNS

**POP3 Settings**

Server

Port

Connection Type

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 from file:** 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.

The screenshot shows the D-Link DAP-2622 web interface. The main content area is titled "Login Page Upload". It features an "Upload Login Style From Local Hard Drive" section with a "Choose File" button and an "Upload" button. Below this, it shows "The Left space" with a value of "726016 Byte(s)".

The "Login Page Style List" section includes a "Wireless Band" dropdown menu set to "2.4GHz". Below the dropdown is a table with columns for ID, Style Name, Pri, S-1, S-2, S-3, S-4, S-5, S-6, S-7, Download, and Del.

ID	Style Name	Pri	S-1	S-2	S-3	S-4	S-5	S-6	S-7	Download	Del
1	pages_default.tar	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="button" value="Download"/>	<input type="button" value="Del"/>
2	pages_headerpic.tar	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="button" value="Download"/>	<input type="button" value="Del"/>
3	pages_license.tar	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="button" value="Download"/>	<input type="button" value="Del"/>

A "Save" button is located at the bottom right of the table area.

## 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 Hard Driver:** To download MAC bypass list file, click **Download** to save the MAC bypass list.

The screenshot displays the D-Link DAP-2622 web interface. The top navigation bar includes Home, Maintenance, Configuration, System, Logout, and Help. The left sidebar shows a tree view of settings categories: Basic Settings, Advanced Settings (Performance, Wireless Resource, Multi-SSID, VLAN, Intrusion, Schedule, Internal RADIUS Server, ARP Spoofing Prevention, Bandwidth Optimization), Captive Portal (Authentication Settings, Login Page Upload, MAC Bypass), DHCP Server, Filters, Traffic Control, and Status. The main content area is titled "MAC Bypass Settings" and contains the following elements:

- Wireless Band: 2.4GHz (dropdown menu)
- SSID Index: Primary SSID (dropdown menu)
- MAC Address: Five input fields followed by an "Add" button.
- A table with columns "ID", "MAC Address", and "Delete".
- Upload MAC File section: "Upload File:" label, "Choose File" button, "No file chosen" text, and "Upload" button.
- Download MAC File section: "Load MAC File to Local Hard Driver:" label and "Download" button.
- A "Save" button at the bottom right.

## 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.

The screenshot shows the D-Link DAP-2622 web interface. The top navigation bar includes Home, Maintenance, Configuration, System, Logout, and Help. The left sidebar shows a tree view of settings categories: Basic Settings, Advanced Settings, Performance, Wireless Resource, Multi-SSID, VLAN, Intrusion, Schedule, Internal RADIUS Server, ARP Spoofing Prevention, Bandwidth Optimization, Captive Portal, Authentication Settings, Login Page Upload, MAC Bypass, DHCP Server, Dynamic Pool Settings, Static Pool Settings, Current IP Mapping List, Filters, Traffic Control, and Status. The main content area is titled 'Dynamic Pool Settings' and contains the following fields:

- DHCP Server Control:** Function Enable/Disable (set to Disabled)
- Dynamic Pool Settings:**
  - IP Assigned From: 192.168.0.20
  - IP Pool Range(1-254): 235
  - Subnet Mask: 255.255.255.0
  - Gateway: (empty)
  - WINS: (empty)
  - DNS: (empty)
  - Domain Name: dlink-ap
  - Lease Time (60 - 31536000 sec): 604800

A 'Save' button is located at the bottom right of the settings area.



## 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.

The screenshot shows the D-Link DAP-2622 web interface. The top navigation bar includes Home, Maintenance, Configuration, System, Logout, and Help. The left sidebar shows a tree view of settings: Basic Settings, Advanced Settings (Performance, Wireless Resource, Multi-SSID, VLAN, Intrusion, Schedule, Internal RADIUS Server, ARP Spoofing Prevention, Bandwidth Optimization), Captive Portal (Authentication Settings, Login Page Upload, MAC Bypass), DHCP Server (Dynamic Pool Settings, Static Pool Settings, Current IP Mapping List), Filters, Traffic Control, and Status. The main content area is titled 'Static Pool Settings' and contains the following configuration options:

- DHCP Server Control:** Function Enable/Disable (Disabled)
- Static Pool Settings:**
  - Host Name: [ ]
  - Assigned IP: [ ]
  - Assigned MAC Address: [ ] : [ ] : [ ] : [ ] : [ ]
  - Subnet Mask: 255.255.255.0
  - Gateway: [ ]
  - WINS: [ ]
  - DNS: [ ]
  - Domain Name: dlink-ap

A 'Save' button is located at the bottom right of the configuration area. Below the configuration area, a table header is visible with columns: Host Name, MAC Address, IP Address, Edit, and Delete.

## 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.

**Current DHCP Dynamic Profile:** These are IP address pools that the DHCP server has assigned using the dynamic pool setting.

**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 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.

Current IP Mapping List			
<b>Current DHCP Dynamic Pools</b>			
Host Name	Binding MAC Address	Assigned IP Address	Lease Time
<b>Current DHCP Static Pools</b>			
Host Name	Binding MAC Address	Assigned IP Address	

## 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 Information:** This table displays information about all the current 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 Drive:** To download ACL list file, click **Download** and to save the ACL list.

The screenshot shows the D-Link DAP-2622 configuration page for Wireless MAC ACL Settings. The interface includes a navigation menu on the left and a main configuration area on the right.

**Navigation Menu:**

- DAP-2622
  - Basic Settings
  - Advanced Settings
    - Performance
    - Wireless Resource
    - Multi-SSID
    - VLAN
    - Intrusion
    - Schedule
    - Internal RADIUS Server
    - ARP Spoofing Prevention
    - Bandwidth Optimization
  - Captive Portal
    - Authentication Settings
    - Login Page Upload
    - MAC Bypass
  - DHCP Server
    - Dynamic Pool Settings
    - Static Pool Settings
    - Current IP Mapping List
  - Filters
    - Wireless MAC ACL
    - WLAN Partition
    - IP Filter Settings
  - Traffic Control
  - Status

**Main Configuration Area:**

**Wireless MAC ACL Settings**

Wireless Band: 2.4GHz (Total: 512 Used: 0)

Access Control List: Disable

SSID Index: Primary SSID

MAC Address: [ ] : [ ] : [ ] : [ ] : [ ] : [ ] Add

ID	MAC Address	Delete	
Current Client Information			
MAC Address	SSID	Signal (%)	Add

**Upload ACL File**

Upload File : Choose File No file chosen Upload

**Download ACL File**

Load ACL File to Local Hard Drive : Download

Save

## WLAN Partition

This page allows the user to configure a WLAN Partition.

**Wireless Band:** Displays the current wireless band.

**Link Integrity:** Select **Enable** or **Disable**. If the Ethernet connection between the LAN and the AP is disconnected, enabling this feature will cause the wireless segment associated with the AP to be disassociated from the AP.

**Ethernet WLAN Access:** The default is **Enable**. When disabled, all data from the Ethernet to associated wireless devices will be blocked. Wireless devices can still send data over the Ethernet interface.

**Internal Station Connection:** The default value is **Enable**, 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.

WLAN Partition		
Wireless Band	2.4GHz ▼	
Link Integrity	Disable ▼	
Ethernet to WLAN Access	Enable ▼	
Internal Station Connection		
Primary SSID	<input checked="" type="radio"/> Enable	<input type="radio"/> Disable <input type="radio"/> Guest mode
Multi-SSID 1	<input type="radio"/> Enable	<input type="radio"/> Disable <input type="radio"/> Guest mode
Multi-SSID 2	<input type="radio"/> Enable	<input type="radio"/> Disable <input type="radio"/> Guest mode
Multi-SSID 3	<input type="radio"/> Enable	<input type="radio"/> Disable <input type="radio"/> Guest mode
Multi-SSID 4	<input type="radio"/> Enable	<input type="radio"/> Disable <input type="radio"/> Guest mode
Multi-SSID 5	<input type="radio"/> Enable	<input type="radio"/> Disable <input type="radio"/> Guest mode
Multi-SSID 6	<input type="radio"/> Enable	<input type="radio"/> Disable <input type="radio"/> Guest mode
Multi-SSID 7	<input type="radio"/> Enable	<input type="radio"/> Disable <input type="radio"/> Guest mode
<input type="button" value="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 **2.4GHz** or **5GHz**.

**IP Address:** Enter the IP address or network address.

**Subnet Mask:** Enter the subnet mask of the IP address or network address.

**Upload IP Filter File:** To upload an IP filter list file, click **Browse** and navigate to the IP filter list file saved on the computer, then click **Upload**.

**Download IP Filter File:** To download an IP Filter list file, click **Download**.

The screenshot shows the D-Link DAP-2622 web interface. The top navigation bar includes Home, Maintenance, Configuration, System, Logout, and Help. The left sidebar shows a tree view of settings, with IP Filter Settings selected under the Filters section. The main content area is titled 'IP Filter Settings' and contains the following fields and options:

- Wireless Band: 2.4GHz (dropdown)
- SSID Index: Primary SSID (dropdown)
- Filter State: Disable (dropdown)
- IP Address: [Text Input]
- Subnet Mask: [Text Input]
- Add: [Button]

Below these fields is a table with columns: ID, IP Address, Subnet Mask, and Delete. Under the table, there are two sections:

- Upload IP Filter File:** Includes an 'Upload File:' label, a 'Choose File' button, a 'No file chosen' text, and an 'Upload' button.
- Download IP Filter File:** Includes a 'Load IP Filter File to Local Hard Driver:' label, a 'Download' button, and a 'Save' button.

# 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.

**Downlink Bandwidth:** The downlink bandwidth in Mbits per second.

**Uplink Bandwidth:** The uplink bandwidth in Mbits per second.

**Ethernet:** Check the box to specify the Downlink or Uplink settings.

The screenshot displays the D-Link DAP-2622 web interface. The navigation menu on the left includes sections like Basic Settings, Advanced Settings, Captive Portal, Filters, Traffic Control, and Status. The main content area is titled "Uplink and Downlink Settings". It features checkboxes for Ethernet1, Ethernet2, and Ethernet3, each with options for Downlink and Uplink. Below this, there are tabs for 2.4GHz and 5GHz. The 2.4GHz tab is active, showing checkboxes for Downlink and Uplink interfaces, each with options for Primary-ssid and Multi-ssid1 through Multi-ssid7. At the bottom, there are input fields for "Downlink Bandwidth(1~867)" and "Uplink Bandwidth(1~867)", both set to 100 Mbits/sec. A "Save" button is located at the bottom right of the main content area.

## 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 **Save** button when you are finished.

**Downlink Bandwidth** Enter the downlink bandwidth in Mbits per second. This value is entered in the **Uplink/Downlink Settings** window.

**Uplink Bandwidth** Enter the uplink bandwidth in Mbits per second. This value is entered in the **Uplink/Downlink Settings** window.

**ACK/DHCP/ICMP/DNS Priority** 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.

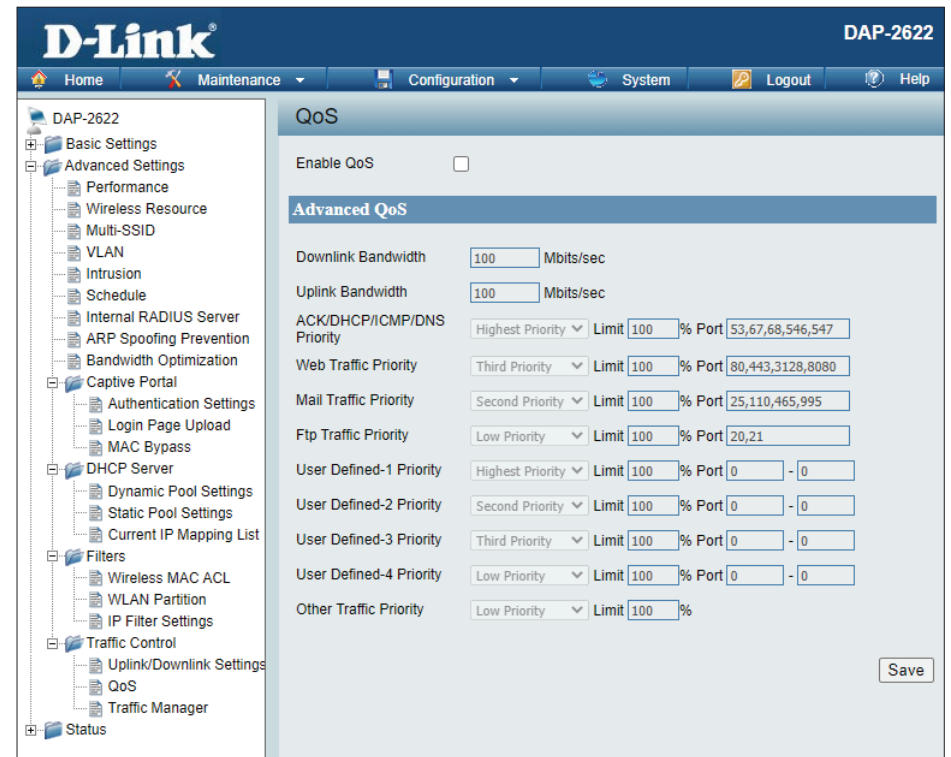
**Mail Traffic Priority** Click the drop-down menu to select the level of priority for the selected rule.

**FTP Traffic Priority** Click the drop-down menu to select the level of priority for the selected rule.

**User Defined-1/2/3/4 Priority** 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 **Configuration > Save and Activate**.



## 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 Manager

Traffic Manager

Unlisted Clients Traffic  Deny  Forward

Downlink Bandwidth  Mbits/sec

Uplink Bandwidth  Mbits/sec

---

#### Add Traffic Manager Rule

Name

Client IP(optional)

Client MAC(optional)

Downlink Speed  Mbits/sec

Uplink Speed  Mbits/sec

---

#### Traffic Manager Rules

Name	Client IP	Client MAC	Downlink Speed	Uplink Speed	Edit	Delete



## 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 <input type="button" value="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.

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

## 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.

The screenshot shows a web interface titled "WDS Information". It contains two tables, one for Channel 4 and one for Channel 40. Each table has a header row with columns: Name, MAC, Authentication, Signal, and Status. The tables are currently empty of data rows.

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.

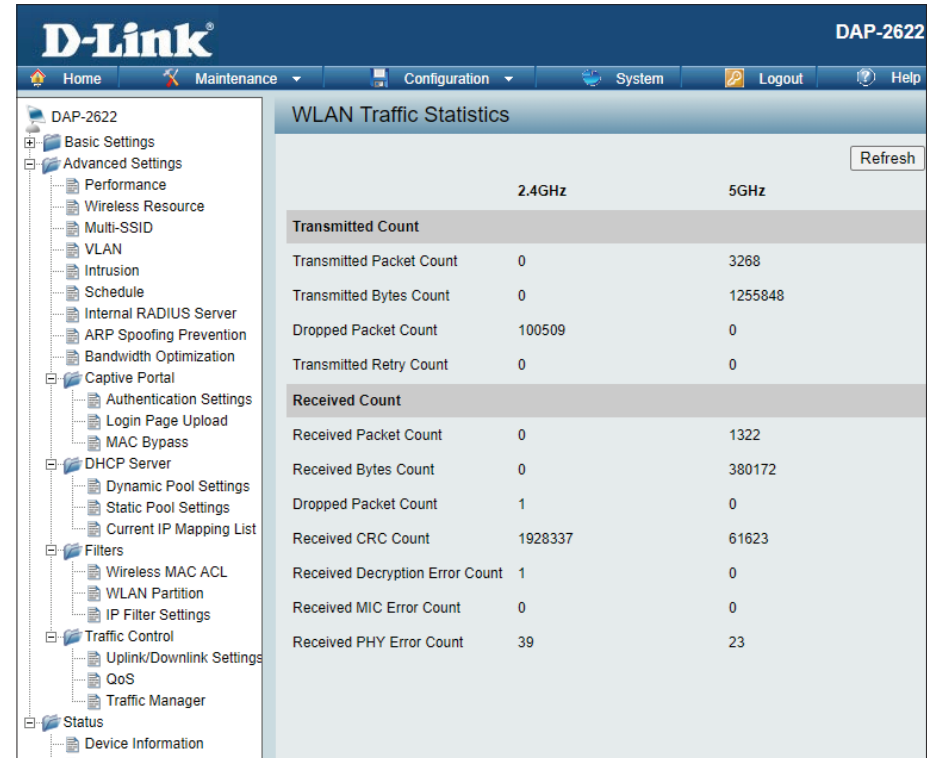
**Ethernet Traffic Statistics:** This page displays transmitted and received statistics for packets and bytes.

	LAN1	LAN2	LAN3
<b>Transmitted Count</b>			
Transmitted Packet Count	32556	101901	101898
Transmitted Bytes Count	19472999	6679733	6679525
Dropped Packet Count	0	0	0
<b>Received Count</b>			
Received Packet Count	194698	0	0
Received Bytes Count	40635650	0	0
Dropped Packet Count	0	0	0

## 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.



The screenshot shows the D-Link DAP-2622 web interface. The left sidebar contains a navigation tree with categories like Basic Settings, Advanced Settings, Performance, Wireless Resource, Multi-SSID, WLAN, Intrusion, Schedule, Internal RADIUS Server, ARP Spoofing Prevention, Bandwidth Optimization, Captive Portal, Authentication Settings, Login Page Upload, MAC Bypass, DHCP Server, Dynamic Pool Settings, Static Pool Settings, Current IP Mapping List, Filters, Wireless MAC ACL, WLAN Partition, IP Filter Settings, Traffic Control, Uplink/Downlink Settings, QoS, Traffic Manager, and Status. The main content area is titled 'WLAN Traffic Statistics' and features a 'Refresh' button. Below the title is a table with columns for 2.4GHz and 5GHz, and rows for Transmitted and Received counts.

	2.4GHz	5GHz
<b>Transmitted Count</b>		
Transmitted Packet Count	0	3268
Transmitted Bytes Count	0	1255848
Dropped Packet Count	100509	0
Transmitted Retry Count	0	0
<b>Received Count</b>		
Received Packet Count	0	1322
Received Bytes Count	0	380172
Dropped Packet Count	1	0
Received CRC Count	1928337	61623
Received Decryption Error Count	1	0
Received MIC Error Count	0	0
Received PHY Error Count	39	23

# 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.

The screenshot shows the D-Link DAP-2622 web interface. The top navigation bar includes Home, Maintenance, Configuration, System, Logout, and Help. The left sidebar contains a tree view of the configuration menu, with 'View Log' selected under the 'Status' section. The main content area displays the 'View Log' page, which includes navigation buttons (First Page, Last Page, Previous, Next, Clear) and a table of log entries.

Date and Time	Message
Oct 22 13:54:03	Web login success from IP=192.168.0.228 with HTTP
Oct 22 08:05:20	5GHz, Disassociate, STA (MAC=40.4e.36.9c.8b.b3, IP=192.168.0.236, reason=3), APMAC=00.aa.bb.cc.dd:18, Network=
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=
Oct 22 07:40:20	External DHCP Server assign IP=192.168.0.236 to client (MAC=40.4e.36.9c.8b.b3)
Oct 22 07:40:16	Association Success, STA (MAC=40.4e.36.9c.8b.b3), APMAC=00.aa.bb.cc.dd:18, Network=
Oct 22 07:40:16	5GHz, Received associate, STA (MAC=40.4e.36.9c.8b.b3), APMAC=00.aa.bb.cc.dd:18, Network=
Oct 21 17:25:11	Web login success from IP=192.168.0.228 with HTTP
Oct 21 16:57:47	Web login success from IP=192.168.0.228 with HTTP
Oct 21 16:30:11	Web login success from IP=192.168.0.228 with HTTP
Oct 21 16:23:16	Web login success from IP=192.168.0.228 with HTTP
Oct 21 16:18:56	DHCP, Client (MAC=00.aa.bb.cc.dd:10) gets IP=192.168.0.174
Oct 21 16:18:54	DHCP, Client (MAC=00.aa.bb.cc.dd:10) receives ACK from server, IP=192.168.0.174, Lease time=604800
Oct 21 16:18:54	DHCP, Client (MAC=00.aa.bb.cc.dd:10) sends REQUEST, Request IP=192.168.0.174 from server
Oct 21 16:18:54	DHCP, Client (MAC=00.aa.bb.cc.dd:10) receives OFFER from server
Oct 21 16:18:54	DHCP, Client (MAC=00.aa.bb.cc.dd:10) sends DISCOVER
Oct 21 16:18:54	Ethernet eth0 LINK UP
Oct 21 16:18:50	DHCP, Client (MAC=00.aa.bb.cc.dd:10) performs a DHCP renew
Oct 21 16:18:45	DHCP, Client (MAC=00.aa.bb.cc.dd:10) performs a DHCP renew
Oct 21 16:18:45	Ethernet eth0 LINK DOWN
Oct 21 16:18:44	Web login failure from IP=192.168.0.228 with 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.

**Log Type:** Check the box for the type of activity you want to log. There are three types: **System Activity**, **Wireless Activity**, and **Notice**.

**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.

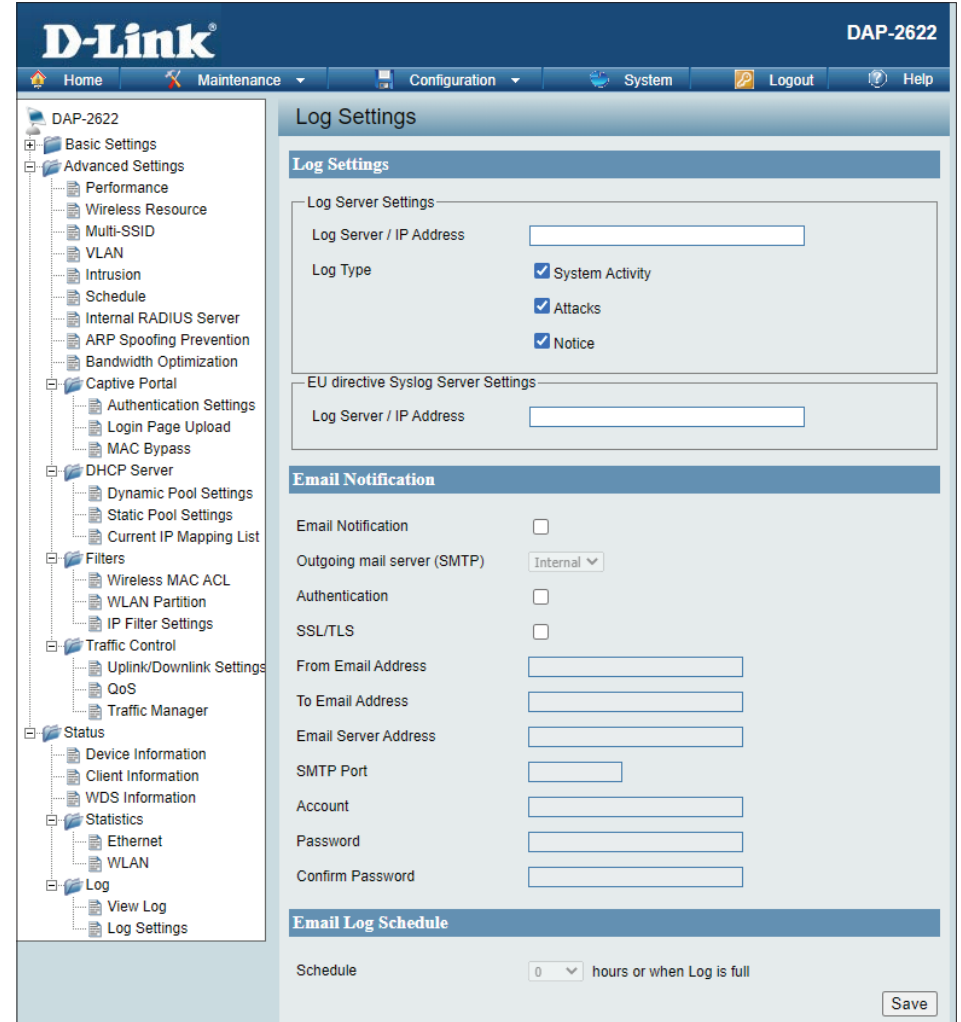
**E-mail Log Schedule:** Use the drop-down menu to set the e-mail schedule.

The screenshot shows the D-Link DAP-2622 web interface. The top navigation bar includes Home, Maintenance, Configuration, System, Logout, and Help. The left sidebar shows a tree view of the configuration menu, with 'Log Settings' selected under the 'Log' category. The main content area is titled 'Log Settings' and contains the following sections:

- Log Settings:**
  - Log Server / IP Address: [Text Input Field]
  - Log Type:
    - System Activity
    - Attacks
    - Notice
- EU directive Syslog Server Settings:**
  - Log Server / IP Address: [Text Input Field]
- Email Notification:**
  - Email Notification:
  - Outgoing mail server (SMTP): [Internal v]
  - Authentication:
  - SSL/TLS:
  - From Email Address: [Text Input Field]
  - To Email Address: [Text Input Field]
  - Email Server Address: [Text Input Field]
  - SMTP Port: [Text Input Field]
  - Account: [Text Input Field]
  - Password: [Text Input Field]
  - Confirm Password: [Text Input Field]
- Email Log Schedule:**
  - Schedule: [0 v] hours or when Log is full
  - [Save Button]



- Outgoing mail server (SMTP)** Click the drop-down menu to select the SMTP server type, options include: Internal, Gmail, Hotmail.
- Authentication** Check the box to enable the authentication of the email notification.
- SSL/TLS** Check the box to enable the SSL/TLS function.
- From Email Address** Enter the email address of the account you would like to send the log.
- To Email Address** Enter the email address of the account you would like to send the log.
- Email Server Address** Enter the IP address of the server you would like to send the log.
- SMTP Port** Enter the SMTP port of the email server.
- Account** Enter the user name of the of the listed email address.
- Password** Enter the password set for the email notification.
- Confirm Password** Retype the password entry to confirm the password.



# 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.

The screenshot displays the D-Link DAP-2622 web interface. The top navigation bar includes the D-Link logo, the model number "DAP-2622", and menu items: Home, Maintenance (selected), Configuration, System, Logout, and Help. A left sidebar contains a tree view of settings categories: DAP-2622, Basic Settings (Wireless, LAN, IPv6), Advanced Settings (Performance, Wireless Resource, Multi-SSID, VLAN, Intrusion, Schedule, Internal RADIUS Server, ARP Spoofing Prevention, Bandwidth Optimization), Captive Portal (Authentication Settings, Login Page Upload, MAC Bypass), and DHCP Server (Dynamic Pool Settings, Static Pool Settings, Current IP Mapping List). The main content area is titled "Administration Settings" and lists several configuration options, each with a checkbox: Limit Administrator, System Name Settings, Login Settings, Console Settings, Ping Control Settings, LED Settings, Country Settings, DDP Settings, and Nuclias Connect Settings. A "Save" button is located at the bottom of the settings list.

# Administration

## Limit Administrator

**Limit Administrator VLAN ID:** Check the box provided and then enter 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.

The screenshot shows a web-based configuration interface for 'Limit Administrator'. At the top, there is a header 'Limit Administrator' with a checked checkbox. Below this, there are three main sections:

- Limit Administrator VLAN ID:** A checkbox labeled 'Enable' is currently unchecked. To its right is a text input field containing the number '1'.
- Limit Administrator IP:** A checkbox labeled 'Enable' is currently unchecked.
- IP Range:** This section contains two text input fields labeled 'From:' and 'To:'. To the right of these fields is a button labeled 'Add'.

Below these sections is a table with the following headers: 'Item', 'From', 'To', and 'Delete'. The table body is currently empty.

## System Name Settings

**System Name:** The name of the device. The default name is **dap2622**.

**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**.

## 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.

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

## Console Settings

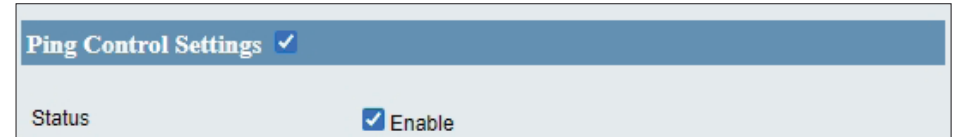
**Status:** This is enabled by default. Uncheck the box to disable the console.

**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, 15 Mins** or **Never**.

## Ping Control Setting

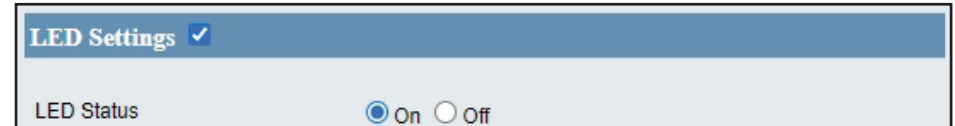
**Status:** Check the box to enable Ping control. Ping works by sending ICMP “echo request” packets to the target host and listening for a response.



The screenshot shows a settings panel titled "Ping Control Settings" with a checkmark icon. Below the title, there is a label "Status" followed by a checked checkbox and the text "Enable".

## LED Settings

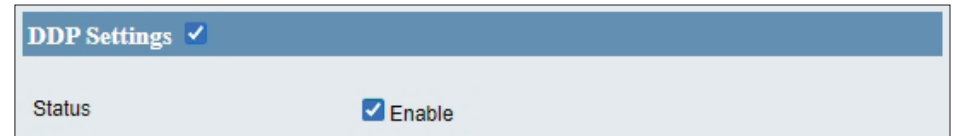
**LED Status:** Click **On** or **Off** to enable or disable the LED status display.



The screenshot shows a settings panel titled "LED Settings" with a checkmark icon. Below the title, there is a label "LED Status" followed by two radio buttons: "On" (which is selected) and "Off".

## DDP Control Setting

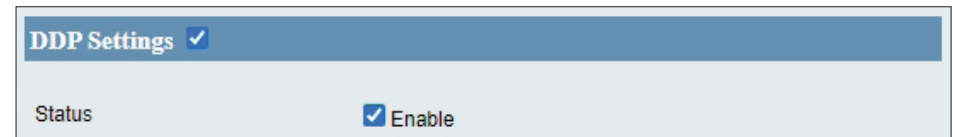
**Status:** Check the box to enable the DDP control.  
This is enabled by default.



The screenshot shows a settings panel titled "DDP Settings" with a checkmark icon. Below the title, there is a "Status" label followed by a checked checkbox and the word "Enable".

## Country Settings

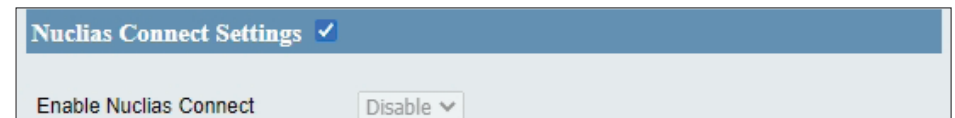
**Select a Country:** Select the country your network is located in from the drop-down menu.



The screenshot shows a settings panel titled "DDP Settings" with a checkmark icon. Below the title, there is a "Status" label followed by a checked checkbox and the word "Enable".

## Nuclias Connect Setting

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



The screenshot shows a settings panel titled "Nuclias Connect Settings" with a checkmark icon. Below the title, there is a label "Enable Nuclias Connect" followed by a dropdown menu currently set to "Disable".

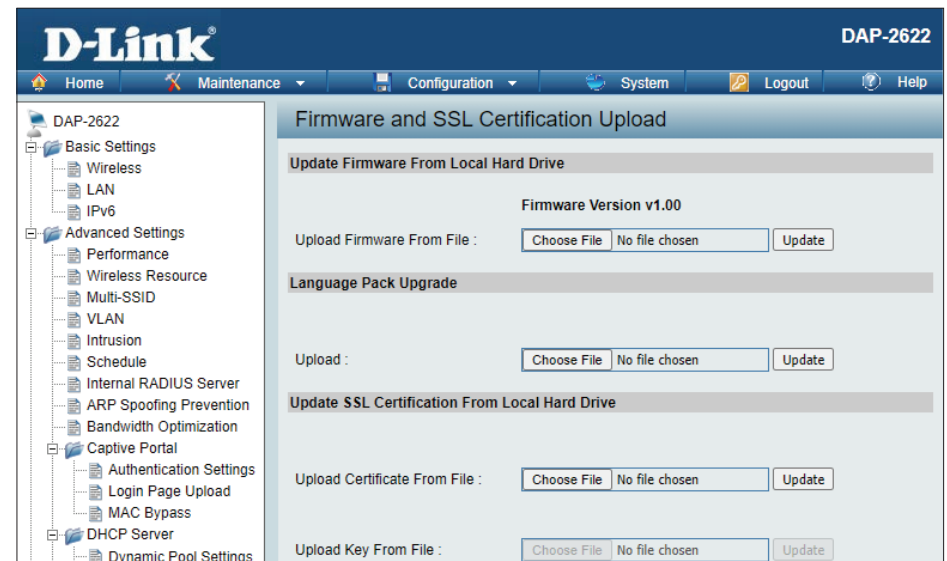
## Firmware and SSL Upload

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.

**Upload Firmware from Local Hard Drive:** The current firmware version is displayed above the file location field. After the latest firmware is downloaded, click on the **Choose File** button to locate the new firmware. Once the file is selected, click on the **Upload** button to begin updating the firmware. Don't turn the power off while upgrading.

**Language Pack Upgrade:** Select a file with a language pack to upload to the access point.

**Upload SSL Certification from Local Hard Drive:** After you have downloaded a SSL certification to your local drive, click **Choose File**. Select the certification and click **Upload** to complete the upgrade.



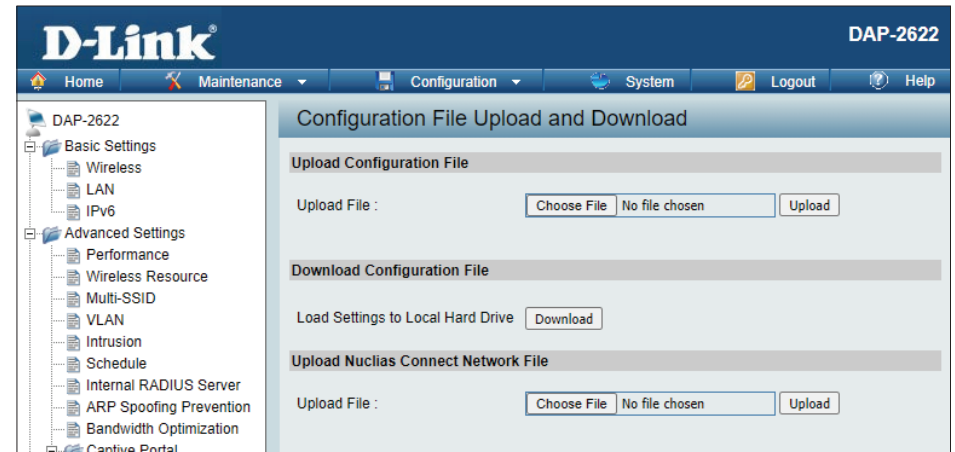
## Configuration File Upload

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 **Upload** to update the configuration.

**Download Configuration File:** Click **Download** 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 **Upload** to upload it to the access point.





## 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.

**Enable NTP Server:** Check to enable the AP to get system time from an NTP server from the Internet.

**NTP Server:** Enter the NTP server IP address.

**Time Zone:** Use the drop-down menu to select your time zone.

**Set the Date and Time Manually:** You can either manually set the time for the AP here, or click the **Copy Your Computer's Time Settings** button to copy the time from the computer in use. (Make sure that the computer's time is set correctly.)

**Enable Daylight Saving:** Check the box to enable Daylight Saving Time.

**Daylight Saving Dates:** Use the drop-down menu to select the correct Daylight Saving offset.

**D-Link** DAP-2622

Home Maintenance Configuration System Logout Help

**Time and Date Settings**

**Time Configuration**

Current Time 2020/10/22 16:56:49

**Automatic Time Configuration**

Enable NTP

NTP Server

Time Zone (GMT) Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London

**Set the Date and Time Manually**

Date And Time

Year 2020 Month Oct Day 22

Hour 16 Minute 58 Second 33

Copy Your Computer's Time Settings

**Daylight Configuration**

Enable Daylight Saving

Daylight Saving Offset 60

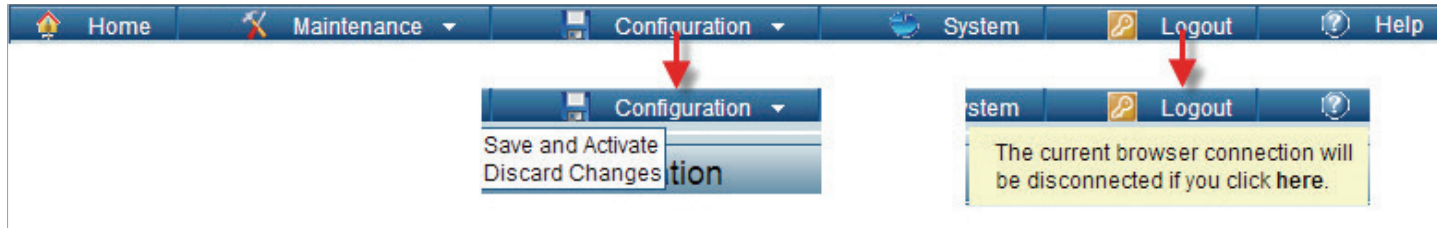
Daylight Saving Dates

	Month	Week	Day	Hour	Minute
DST Start	Mar	3rd	Sun	3 am	0
DST End	Nov	2nd	Sun	3 am	0

Save

# 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.



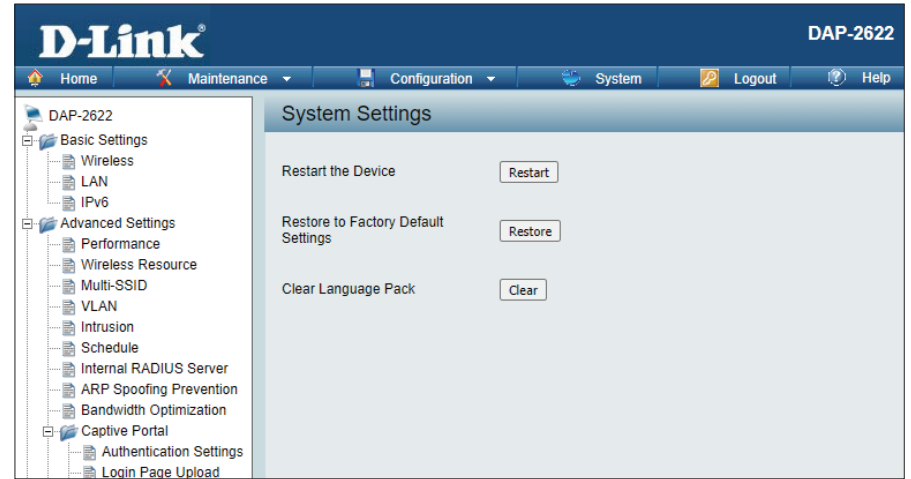
# System Settings

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 **Restart** to restart the DAP-2622.

**Restore to Factory Default Settings:** Click **Restore** to restore the DAP-2622 back to factory default settings.

**Clear Language Pack:** Click to clear the current language pack.



# 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 or to 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 "dlink". The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network.

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

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

**Channel**  
Indicate the channel setting for the DAP-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™ Personal/Enterprise
- WPA2™ Personal/Enterprise
- WEP™ 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

