

NUCLIAS CONNECT DAP-2610 User Guide

V 2.00

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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-2610, please refer to the Nuclias Connect User Guide.

Package Contents

- DAP-2610 802.11ac Power over Ethernet (PoE) Access Point
- Mounting Brackets
- Ceiling Brackets
- Quick Install Guide

Note: No PSU supplied. To power the units use a D-Link 802.3af PoE switch or the D-Link DPE-301GI PoE injector.

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

LED



Connections



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-2610 is working properly.

2	Power Receptor	Connect the supplied power adapter.
3	LAN (PoE) Port	Connect to a Power over Ethernet (PoE) switch or router via an Ethernet cable.
4	Reset Button	Press and hold for five seconds to reset the access point to the factory default settings. Press and hold for one second to reboot the access point.

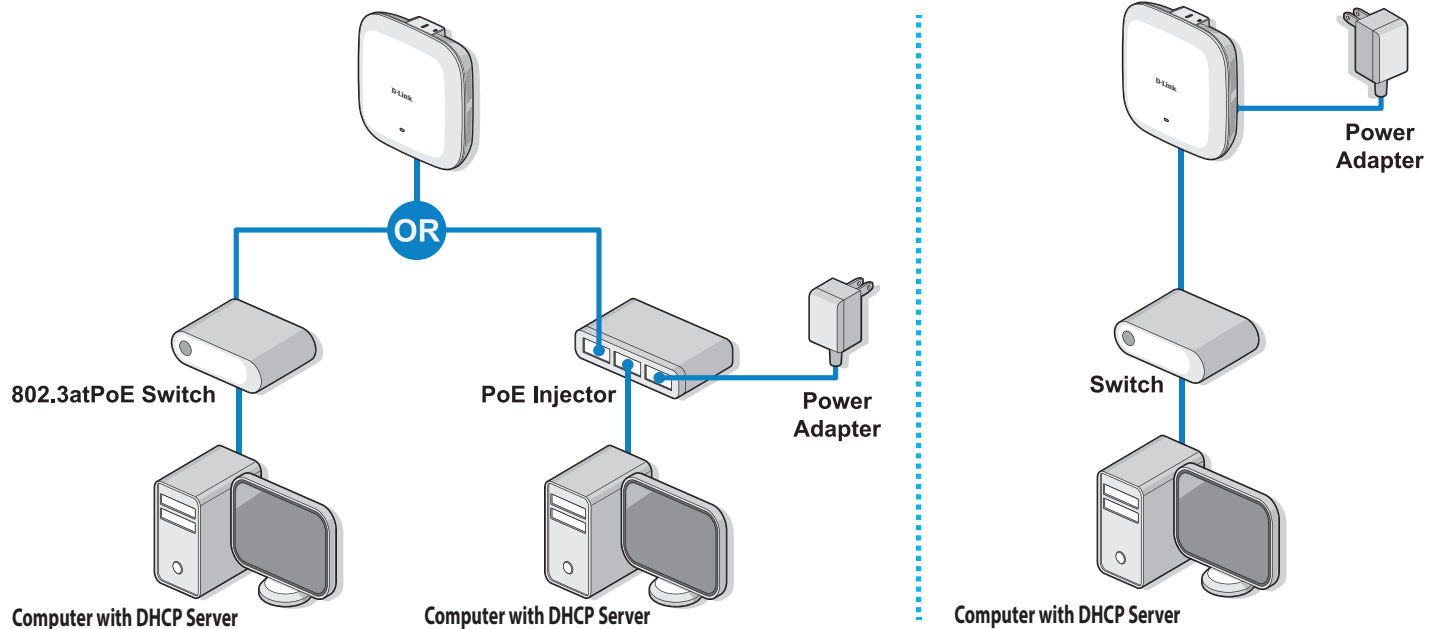
Basic Installation

Hardware Setup

To power on the DAP-2610, you can use ONE of the following methods:

1. Plug one end of your Ethernet cable into the LAN port of the DAP-2610, and the other end into a port on a 802.3af PoE switch.
2. Separately purchase a DPE-301GI PoE injector if you need to connect the Access Point without a 802.3af PoE Switch.
3. Separately purchase a power adaptor to plug into the power receptor of the DAP-2610

Configure the Access Point



To set up and manage the DAP-2610, use one of the following methods:

1. Connect the access point and your computer to the same PoE switch. Manage the access point from the computer.
Enter **dap2610.local** in the address field of your browser.
Log in to the Administration user interface. The default login information is:
Username: admin
Password: admin
2. Connect the access point and your computer via DPE-301GI PoE injector. Manage the access point from the computer.
Enter **dap2610.local** in the address field of your browser.
Log in to the Administration user interface. The default login information is:
Username: admin
Password: admin
3. Connect the access point and your computer to the same network switch. Manage the access point from the computer.
Enter **dap2610.local** in the address field on your browser.
Log in to the Administration user interface. The default login information is:
Username: admin
Password: admin

Setup Wizard

The first login instance displays the System Settings window which requires a change in password. 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 check, 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 savings time (DST) function. Set the DST start (24 hours) and end (24 hours) time by clicking on the drop-down menus and setting the Month, Week, Day, Hour, and Minute of the DST starting days.

Once the settings are configured, click **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(NTP)
 Manually

System Date

System Time(24 HR) :

Enable Daylight Saving

DST Start(24 HR) in at

DST End(24 HR) in at

Daylight Offset(minutes)

System Country

Web User Interface

The DAP-2610 supports an elaborate web user interface where the user can configure and monitor the device. Launch a web browser, type **dap2610.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-2610 web user interface. The top navigation bar includes the D-Link logo, the device name 'DAP-2610', and menu items: Home, Maintenance, Configuration, System, Logout, and Help. A left-hand navigation tree shows the following structure:

- DAP-2610
 - 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

The main content area is titled 'Performance Settings' and contains the following configuration options:

Wireless band	2.4GHz
Wireless	On
Wireless Mode	Mixed 802.11n, 802.11g and 802.11b
Data Rate	Best(Up to 300) (Mbps)
Beacon Interval (40-500)	100
DTIM Interval (1-15)	1
Transmit Power	100%
WMM (Wi-Fi Multimedia)	Enable
Ack Time Out (2.4GHz, 48~200)	48 (μs)
Short GI	Enable
IGMP Snooping	Disable
Multicast Rate	Disable (Mbps)
Multicast Bandwidth Control	Disable
Maximum Multicast Bandwidth	100 kbps
HT20/40 Coexistence	Enable
Transfer DHCP Offer to Unicast	Enable

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

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-2610 configuration interface. The main content area is titled "Wireless Settings" and contains the following fields and options:

- Wireless Band:** 2.4GHz (dropdown)
- Mode:** Access Point (dropdown)
- Network Name (SSID):** dlink (text input)
- SSID Visibility:** Enable (dropdown)
- Auto Channel Selection:** Enable (dropdown)
- Channel:** 6 (dropdown)
- Channel Width:** 20 MHz (dropdown)
- Authentication:** Open System (dropdown)
- Key Settings:**
 - Encryption:** Disable Enable
 - Key Type:** HEX (dropdown)
 - Key Index(1~4):** 1 (dropdown)
 - Network Key:** (text input)
 - Confirm Key:** (text input)
 - Key Size:** 64 Bits (dropdown)

A "Save" button is located at the bottom right of the settings area. The page also features a navigation menu at the top with "Home", "Maintenance", "Configuration", "System", "Logout", and "Help" options, and a sidebar on the left with "Basic Settings", "Wireless", "LAN", "IPv6", "Advanced Settings", and "Status" options.

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: Allows you to select the channel width you would like to operate in. Select **20 MHz** if you are not using any 802.11n wireless clients. **Auto 20/40 MHz** allows you to connect to both 802.11n and 802.11b/g 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.

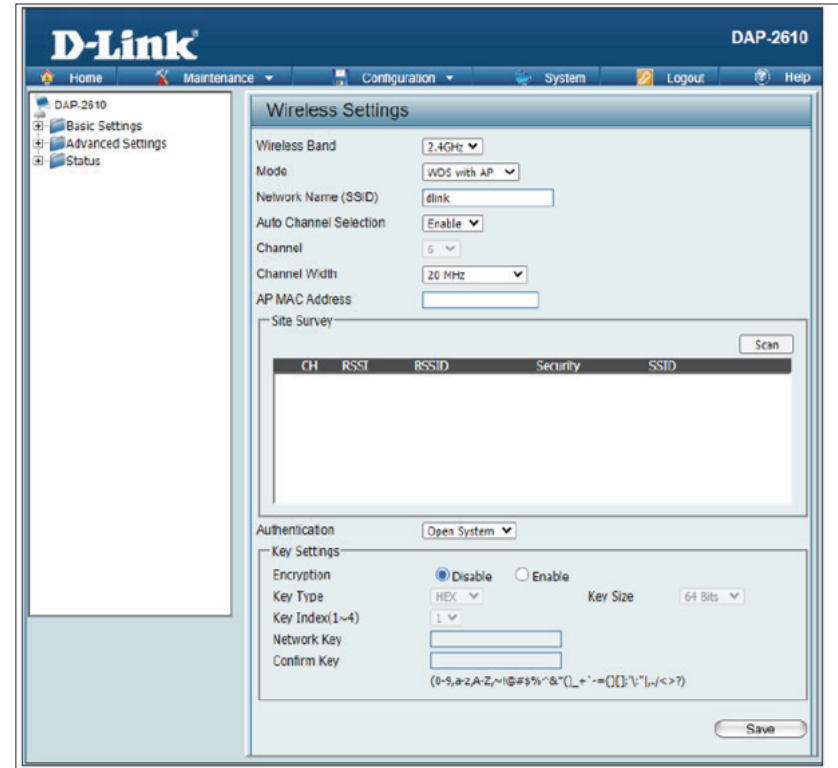
Mode: **WDS with AP** mode is selected from the drop-down menu.

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.



Authentication: Click the drop-down menu to select **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. 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.

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

WDS Mode

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

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

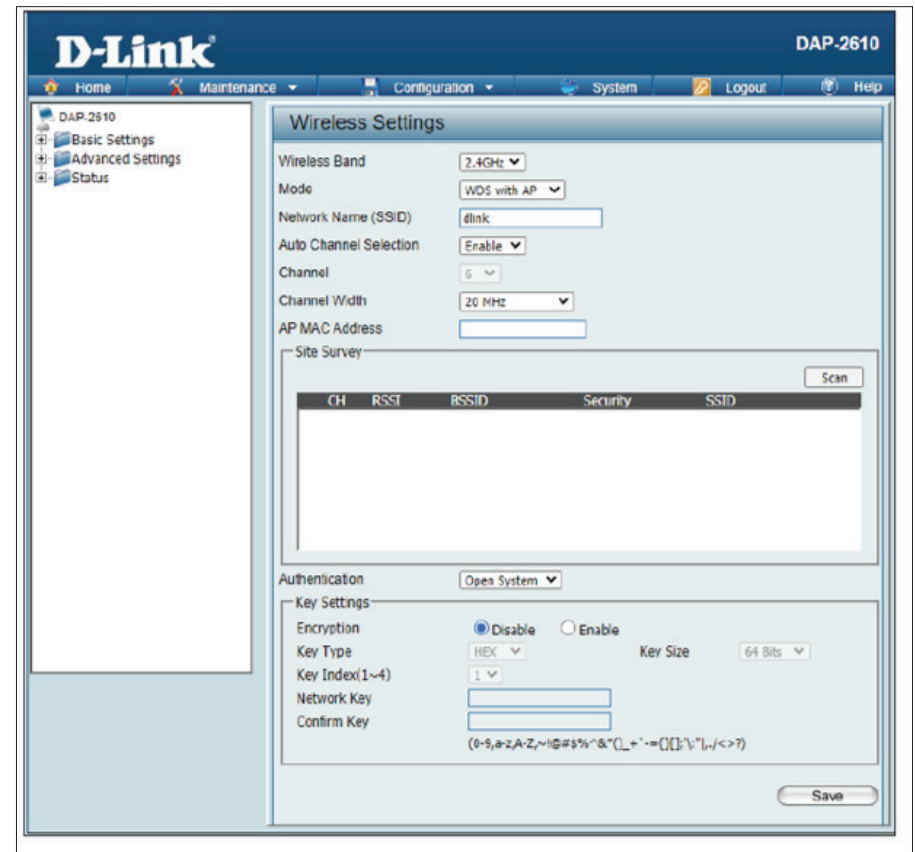
Network Name (SSID): Service Set Identifier (SSID) is the name designated for a specific wireless local area network (WLAN). The SSID's factory default setting is **dlink**. The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network.

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 addresses of the root AP of this WDS network. If left empty, then this device is the root AP.



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.

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

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-2610 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.

The screenshot displays the D-Link DAP-2610 configuration interface. The main content area is titled "Wireless Settings". On the left, a navigation tree shows "Basic Settings" expanded to "Wireless". The "Wireless Settings" page includes the following fields and options:

- Wireless Band:** 2.4GHz
- Mode:** Wireless Client
- Network Name (SSID):** dlink
- SSID Visibility:** Enable
- Auto Channel Selection:** Enable
- Channel:** 6
- Channel Width:** Auto 20/40 MHz
- Site Survey:** A table with columns CH, RSSI, BSSID, Security, and SSID. A "Scan" button is present.
- Authentication:** Open System
- Key Settings:**
 - Encryption:** Disable (selected) or Enable
 - Key Type:** HEX
 - Key Index(1~4):** 1
 - Key Size:** 64 Bits
 - Network Key:** [Text input field]
 - Confirm Key:** [Text input field]
- Wireless MAC Clone:**
 - Enable:** [Unchecked checkbox]
 - MAC Source:** Auto
 - MAC Address:** [Text input field]

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

Wireless Client Mode

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**.

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 displays the D-Link DAP-2610 web interface. The main content area is titled "Wireless Settings". On the left, a navigation menu shows "Basic Settings" expanded to "Wireless". The "Wireless Settings" section includes the following fields and options:

- Wireless Band:** 2.4GHz
- Mode:** Wireless Client
- Network Name (SSID):** dlink
- SSID Visibility:** Enable
- Auto Channel Selection:** Enable
- Channel:** 6
- Channel Width:** Auto 20/40 MHz
- Site Survey:** A table with columns for CH, RSSI, BSSID, Security, and SSID. A "Scan" button is present.
- Authentication:** Open System
- Key Settings:**
 - Encryption:** Disable (selected) or Enable
 - Key Type:** HEX
 - Key Index(1~4):** 1
 - Key Size:** 64 Bits
 - Network Key:** [Input field]
 - Confirm Key:** [Input field]
- Wireless MAC Clone:**
 - Enable:** [Unchecked checkbox]
 - MAC Source:** Auto
 - MAC Address:** [Input field] [Scan button]
 - MAC Address Table:** A table with a header "MAC Address" and an empty body.

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

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.

Encryption: Use the radio button to disable or enable encryption.

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

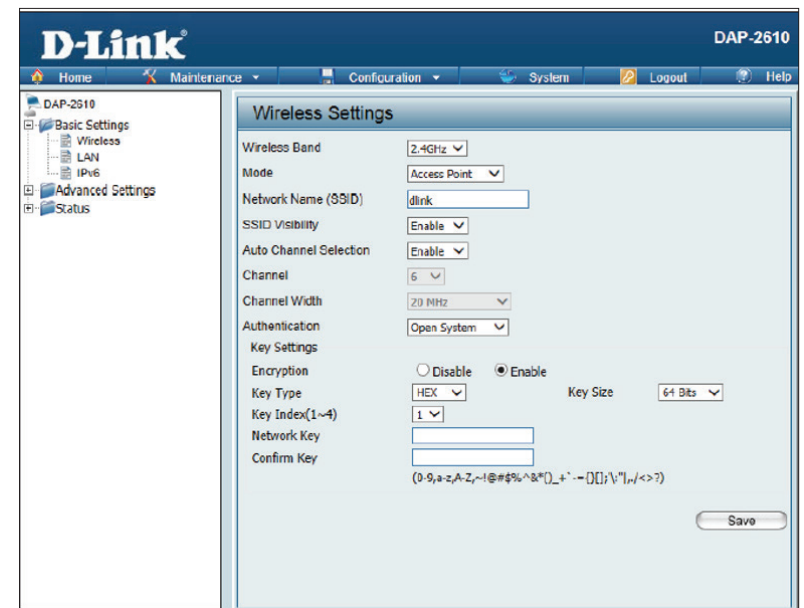
Key Size: Select **64 Bits** or **128 Bits**.

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 / WPA3)

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.

Compared with WPA-EAP, WPA-PSK is a weaker form of authentication but compared to WEP, WPA-PSK is far more secure than WEP. WPA-EAP is currently the highest level of wireless security for users.

WPA2/WPA3 are upgrades of WPA and solves some possible security issues found in WPA. Similar to WPA, WPA2/WPA3 have two variations called WPA2/WPA3-Personal (PSK) and WPA2/WPA3-Enterprise (EAP).

WPA Mode: When **WPA-Personal** is selected for Authentication type, you must also select a WPA mode from the drop-down menu: **AUTO (WPA or WPA2)**, **WPA2** or **WPA3**, **WPA2 Only**, or **WPA3 Only**.

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 displays the 'Wireless Settings' configuration interface. Key settings include:

- Wireless Band:** 2.4GHz
- Mode:** Access Point
- Network Name (SSID):** dlink
- SSID Visibility:** Enable
- Auto Channel Selection:** Enable
- Channel:** 1
- Channel Width:** 20 MHz
- Authentication:** WPA-Personal
- PassPhrase Settings:**
 - WPA Mode:** AUTO (WPA or WPA2)
 - Cipher Type:** Auto
 - Group Key Update Interval:** 3600 (Seconds)
 - Manual:** Selected (radio button)
 - Periodical Key Change:** Unselected (radio button)
 - Activated From:** Sun : 00 : 00
 - Time Interval:** 1 (1~168)hour(s)
 - PassPhrase:** [Empty field]
 - Confirm PassPhrase:** [Empty field]

Notice: 8~63 in ASCII or 64 in Hex.
(0-9,a-z,A-Z,~,!@#%&*()_+~{}|'";,./<>?)

Save

LAN

LAN is short for Local Area Network. This is your internal network. These are the IP settings of the LAN interface for the DAP-2610. 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: **Dynamic IP (DHCP)** is chosen here. Choose this option if you have a DHCP server in your network, or if you wish to assign a static IP address to the DAP-2610. 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.

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.

The screenshot shows the 'LAN Settings' configuration window. It features a title bar 'LAN Settings' and a light blue background. The settings are as follows:

Field	Value
Get IP From	Static IP (Manual) ▼
IP Address	192.168.0.50
Subnet Mask	255.255.255.0
Default Gateway	
DNS	

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

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 D-Link DAP-2610 web interface. The top navigation bar includes 'Home', 'Maintenance', 'Configuration', 'System', 'Logout', and 'Help'. The left sidebar shows a tree view with 'Basic Settings', 'Wireless', 'LAN', 'IPv6', 'Advanced Settings', and 'Status'. The main content area is titled 'IPv6 Settings' and contains the following fields:

- Enable IPv6
- Get IP From:
- IP Address:
- Prefix:
- Default Gateway:

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

Advanced Settings

In the **Advanced Settings** Section the user can configure advanced settings concerning Performance, Wireless Resource, Multi-SSID, VLAN, Intrusion, Schedule, Internal RADIUS Server, ARP Spoofing Prevention, Bandwidth Optimization, Captive Portal, DHCP Server, Filters and Traffic Control . The following pages will explain settings found in the Advanced Settings section in more detail.

The screenshot displays the D-Link DAP-2610 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. The main content area is titled 'Performance Settings' and contains the following configuration options:

Setting	Value
Wireless band	2.4GHz
Wireless	On
Wireless Mode	Mixed 802.11n, 802.11g and 802.11b
Data Rate	Best(Up to 300) (Mbps)
Beacon Interval (40-500)	100
DTIM Interval (1-15)	1
Transmit Power	100%
WMM (Wi-Fi Multimedia)	Enable
Ack Time Out (2.4GHz, 48~200)	48 (μs)
Short GI	Enable
IGMP Snooping	Disable
Multicast Rate	Disable (Mbps)
Multicast Bandwidth Control	Disable
Maximum Multicast Bandwidth	100 kbps
HT20/40 Coexistence	Enable
Transfer DHCP Offer to Unicast	Enable

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: The different combination of clients that can be supported include **Mixed 802.11n, 802.11g and 802.11b**, **Mixed 802.11g and 802.11b** and **802.11n Only** in the 2.4 GHz band, and **Mixed 802.11n, 802.11a, 802.11a Only**, and **802.11n Only** in the 5 GHz band. Please note that when backwards compatibility is enabled for legacy (802.11a/g/b) clients, degradation of 802.11n (draft) wireless performance is expected.

Data Rate*: Indicate the base transfer rate of wireless adapters on the wireless LAN. The AP will adjust the base transfer rate depending on the base rate of the connected device. If there are obstacles or interference, the AP will step down the rate. This option is enabled in Mixed 802.11g and 802.11b mode (for 2.4 GHz) and 802.11a Only mode (for 5 GHz). The choices available are **Best (Up to 54)**, **54**, **48**, **36**, **24**, **18**, **12**, **9**, and **6** for 5 GHz and **Best (Up to 54)**, **54**, **48**, **36**, **24**, **18**, **12**, **9**, **6**, **11**, **5.5**, **2** and **1** for 2.4 GHz.

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, 48~200): To effectively optimize throughput over long-distance links, enter a value for Acknowledgement Time Out between 25 and 200 microseconds for 5 GHz, or 48 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.

Airtime Fairness: Click the drop-down menu to enable or disable the airtime fairness function.

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

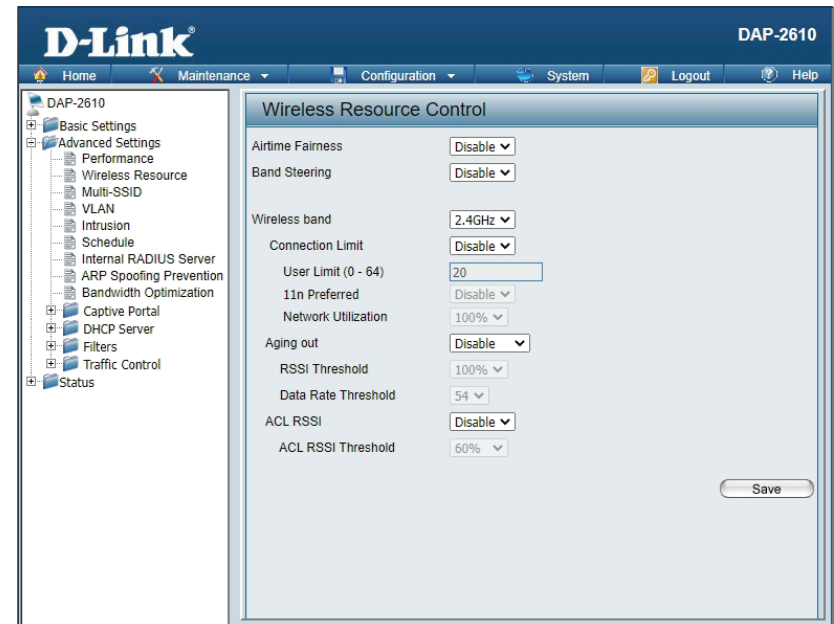
Wireless band: Select **2.4GHz** or **5GHz**.

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-2610 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-2610 will not allow any new clients to associate with the AP if the utilization exceeds the value the user specifies. Select a utilization percentage between **100%**, **80%**, **60%**, **40%**, **20%**, and **0%**. When this network utilization threshold is reached, the device will pause for one minute to allow network congestion to dissipate.



Aging out: Use the drop-down menu to select the criteria of disconnecting the wireless clients. Available options are **RSSI** and **Data 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.

D-Link DAP-2610

Home Maintenance Configuration System Logout Help

DAP-2610

- 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

Multi-SSID Settings

Enable Multi-SSID Enable Priority

Wireless Settings

Band: 2.4 GHz

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: HEX Key Size: 64 Bits

Key Index(1~4): 1

Network Key:

Confirm Key:

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

Add

Index	SSID	Band	Encryption	Delete
Primary SSID	dlink	2.4 GHz	None	

Save

Encryption: When you select Open System, toggle between **Enable** and **Disable**. If Enable is selected, the **Key Type, Key Size, Key Index (1~4), Key**, and **Confirm Keys** must also be configured.

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

Key Size: Select **64-bit** or **128-bit**.

Key Index (1-4): Select from the 1st to 4th key to be set as the active key.

Key: Input up to four keys for encryption. You will select one of these keys in the **Key Index** drop-down menu.

WPA Mode: When you select either **WPA-Personal** or **WPA-Enterprise**, you must also choose a WPA mode from the drop-down menu: **AUTO (WPA or WPA2), WPA2 Only**, or **WPA Only**. WPA and WPA2 use different algorithms. AUTO (WPA or WPA2) allows you to use both WPA and WPA2. In addition, you must configure Cipher Type, and Group Key Update Interval.

Cipher Type: Select **Auto, AES**, or **TKIP** from the drop-down menu.

Group Key Update Interval: Select the interval during which the group key will be valid. The default value of **3600** 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-2610 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-2610 without a VLAN tag will have a VLAN tag inserted with a PVID. The **VLAN List** tab displays the current VLANs.

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

VLAN Mode: The current VLAN mode is displayed.

VLAN Settings

VLAN Status : Disable Enable Save

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

VID	VLAN Name	Untag VLAN Ports	Tag VLAN Ports	Edit	Delete
1	default	Mgmt, LAN, 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)			

Port List

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

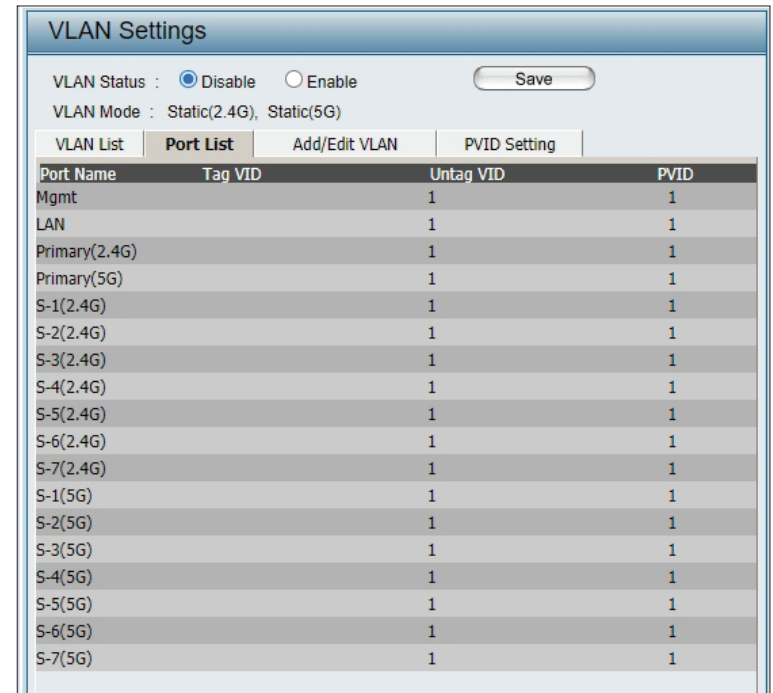
VLAN Status: Use the radio button to toggle to Enable. Next, go to the **Add/Edit VLAN** tab to add or modify an item on the **VLAN List** tab.

Port Name: The name of the port is displayed in this column.

Tag VID: The tagged VID is displayed in this column.

Untag VID: The untagged VID is displayed in this column.

PVID: The port VLAN identifier is displayed in this column.



Port Name	Tag VID	Untag VID	PVID
Mgmt	1	1	1
LAN	1	1	1
Primary(2.4G)	1	1	1
Primary(5G)	1	1	1
S-1(2.4G)	1	1	1
S-2(2.4G)	1	1	1
S-3(2.4G)	1	1	1
S-4(2.4G)	1	1	1
S-5(2.4G)	1	1	1
S-6(2.4G)	1	1	1
S-7(2.4G)	1	1	1
S-1(5G)	1	1	1
S-2(5G)	1	1	1
S-3(5G)	1	1	1
S-4(5G)	1	1	1
S-5(5G)	1	1	1
S-6(5G)	1	1	1
S-7(5G)	1	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: Use the radio button to check **Enable**.

VLAN ID: Provide a number between 1 and 4094 for the internal VLAN.

VLAN Name: Enter the VLAN to add or modify.

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	LAN
Untag	All	<input type="radio"/>	<input type="radio"/>
Tag	All	<input type="radio"/>	<input type="radio"/>
Not Member	All	<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: Use the radio button to toggle between **Enable** and **Disable**.

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

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	LAN
PVID	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: Select **2.4GHz** or **5GHz**.

Detect: Click this button to initiate a scan of the network.

AP List: Click the drop-down menu to select **All**, **Valid**, **Neighbor**, **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.

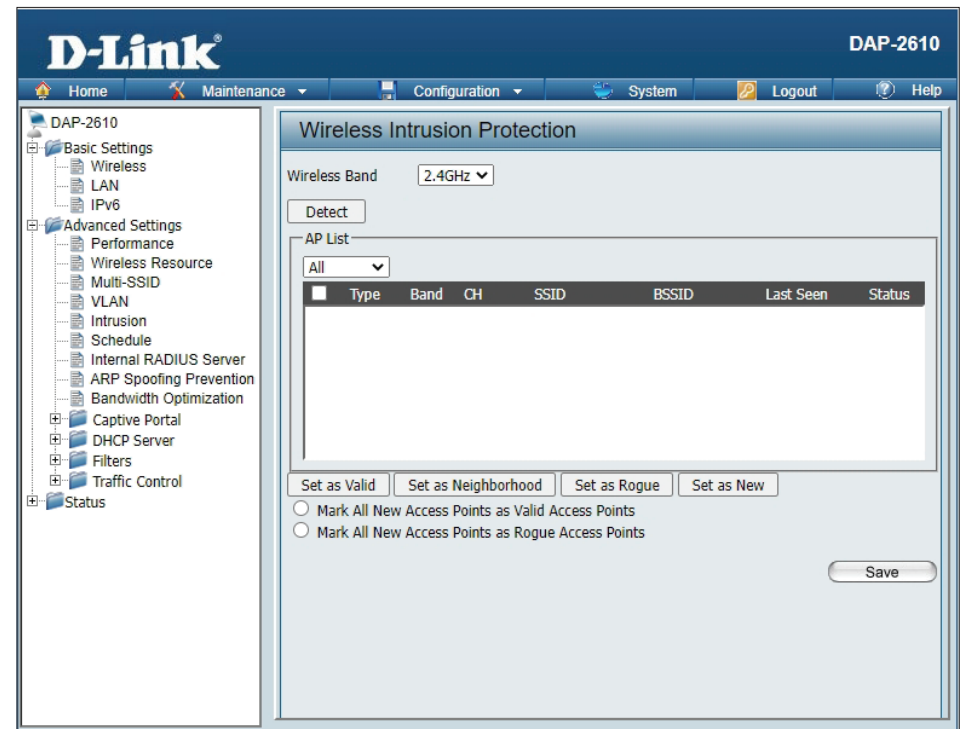
Neighbor: A detected AP with a weak signal strength is classified as a suspect neighbor.

Rogue: An AP that has been installed on the secure network without 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**.



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.

Wireless Schedule Settings

Wireless Schedule: **Disable**

Add Schedule Rule

Name:

Index: Primary SSID 2.4G

SSID: dlink

Day(s): All Week Select Day(s)

Sun Mon Tue Wed Thu Fri Sat

All Day(s):

Start Time: : (hour:minute, 24 hour time)

End Time: : (hour:minute, 24 hour time) Overnight

Schedule Rule List

Name	SSID Index	SSID	Day(s)	Time Frame	Wireless	Edit	DEL
+.: To the end time of the next day overnight.							

Internal RADIUS Server

The DAP-2610 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-2610 web management interface. The top navigation bar includes 'Home', 'Maintenance', 'Configuration', 'System', 'Logout', and 'Help'. A left sidebar shows a tree view of configuration options, with 'Internal RADIUS Server' selected. The main content area is titled 'Internal RADIUS Server' and contains two sections: 'Add RADIUS Account' and 'RADIUS Account list'. The 'Add RADIUS Account' section has input fields for 'User Name' and 'Password', and a 'Status' dropdown menu currently set to 'Enable'. The 'RADIUS Account list' section is a table with columns for 'User Name', 'Enable', 'Disable', and 'Delete', but it is currently empty. A 'Save' button is located at the bottom right of the configuration area.

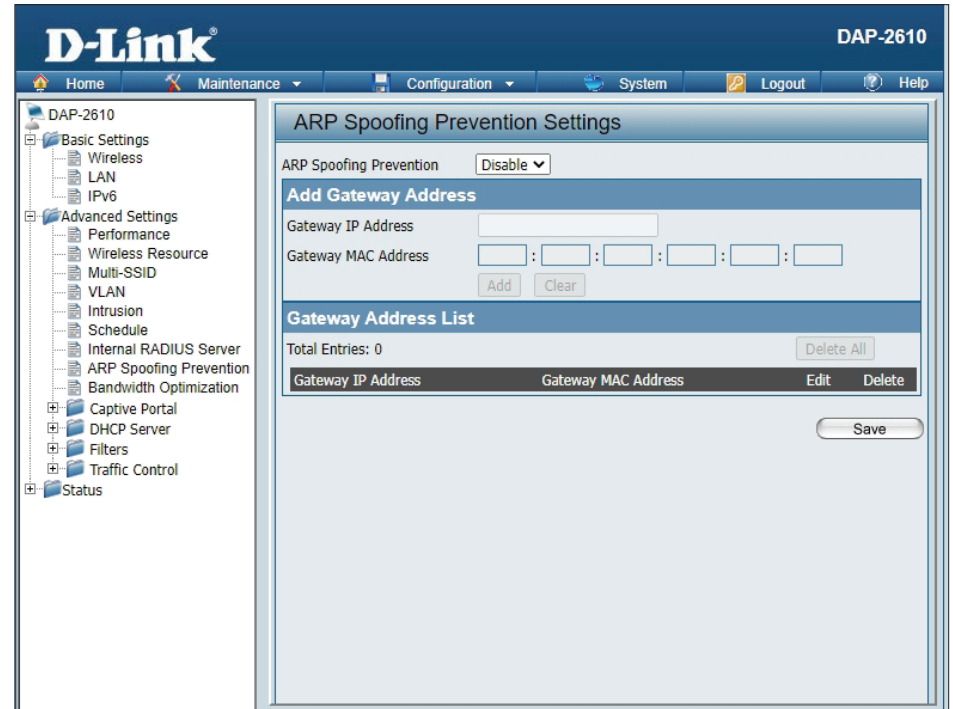
ARP Spoofing Prevention

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.

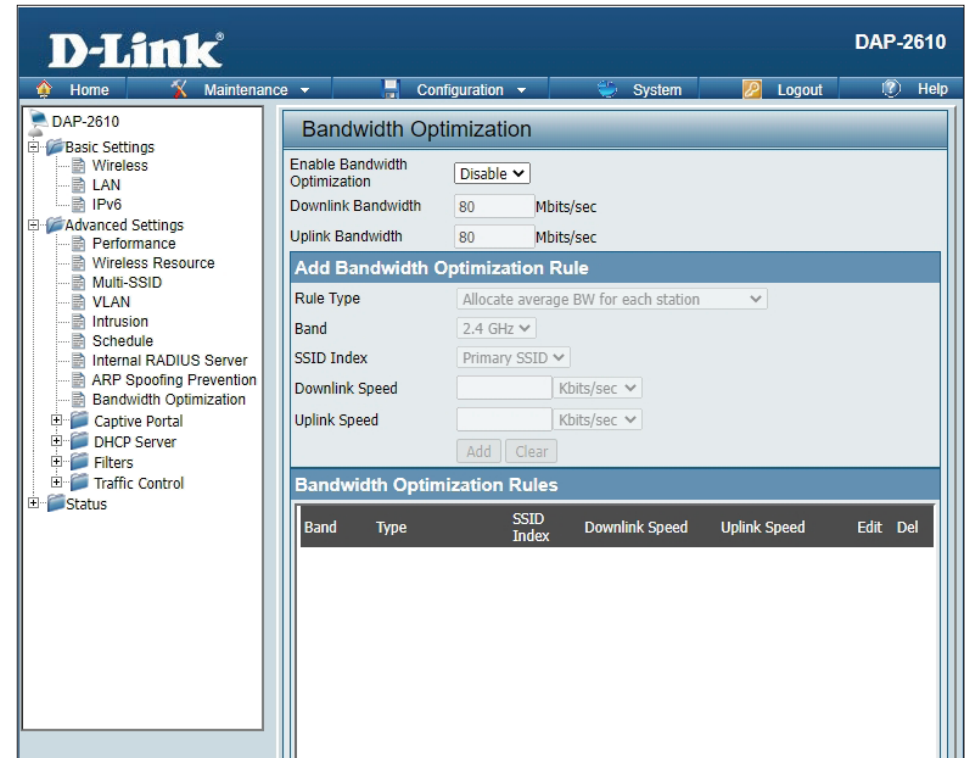
Uplink Bandwidth: Enter the uplink bandwidth of the device in Mbits per second.

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.



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.

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-2610 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 (Authentication Settings, Login Page Upload, MAC Bypass, Walled Garden), DHCP Server, Filters, Traffic Control, and Status.

The main content area is titled 'Captive Portal Authentication' and contains the following configuration options:

- Band:** 2.4GHz
- SSID Index:** Primary SSID
- Idle Timeout (1-1440):** 60 Minute(s)
- Authentication Type:** Web Redirection Only
- Web Redirection Interface Settings:**
 - Web Redirection State:** Enable
 - URL Path:** http://
- IP Interface Settings:**
 - Please enable VLAN, and make sure IP subnet of each VLAN Group and LAN are different.*
 - IPIF Status:** Disable
 - VLAN Group:** [Empty field]
 - Get IP From:** Static IP(Manual)
 - IP Address:** [Empty field]
 - Subnet Mask:** [Empty field]
 - Gateway:** [Empty field]
 - DNS:** [Empty field]

A 'Save' button is located at the bottom right of the configuration area. Below the settings is a table with the following structure:

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-2610. 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-2610. 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.

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-2610. 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-2610. 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.

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-2610. 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.

The screenshot displays the D-Link DAP-2610 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:

- Band:** 2.4GHz
- SSID Index:** Primary SSID
- Idle Timeout (1-1440):** 60 Minute(s)
- Authentication Type:** LDAP
- Web Redirection Interface Settings:**
 - Web Redirection State:** Disable
 - URL Path:** http://
- IP Interface Settings:**
 - IPIF Status:** Disable
 - VLAN Group:** (empty field)
 - Get IP From:** Static IP(Manual)
 - IP Address:** (empty field)
 - Subnet Mask:** (empty field)
 - Gateway:** (empty field)
 - DNS:** (empty field)
- LDAP Settings:**
 - Server:** (empty field)
 - Port:** 389
 - Authenticate Mode:** Simple
 - Username:** (empty field)
 - Password:** (empty field)
 - Base DN:** (empty field) (ou=,dc=)
 - Account Attribute:** (empty field) (ex.cn)
 - Identity:** (empty field) Auto Copy

At the bottom right, there is a 'Save' button. Below the settings, there is a table with columns: 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

The screenshot displays the D-Link DAP-2610 web interface. The left sidebar shows a navigation tree with 'Captive Portal' expanded. The main content area is titled 'Captive Portal Authentication' and contains the following settings:

- Band:** 2.4GHz
- SSID Index:** Primary SSID
- Idle Timeout (1-1440):** 60 Minute(s)
- Authentication Type:** POP3
- Web Redirection Interface Settings:**
 - Web Redirection State:** Disable
 - URL Path:** http://
- IP Interface Settings:**
 - IPIF Status:** Disable
 - VLAN Group:** (empty field)
 - Get IP From:** Static IP(Manual)
 - IP Address:** (empty field)
 - Subnet Mask:** (empty field)
 - Gateway:** (empty field)
 - DNS:** (empty field)
- POP3 Settings:**
 - Server:** (empty field)
 - Port:** 110
 - Connection Type:** None

At the bottom right, there is a 'Save' button. Below the settings is a table with columns: 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-2610. 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-2610 web interface. The main content area is titled "Login Page Upload". It features a section for "Upload Login Style From Local Hard Drive" with a text input field for the file path, a "浏览..." (Browse) button, and an "Upload" button. Below this, it shows "The Left space" as 457216 Byte(s). The "Login Page Style List" section includes a "Wireless Band" dropdown menu set to "2.4GHz" and 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"/>		
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"/>		
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"/>		

MAC Bypass

The DAP-2610 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-2610 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 'MAC Bypass' selected under 'Authentication Settings'. The main content area is titled 'MAC Bypass Settings' and contains the following elements:

- Wireless Band:** A dropdown menu set to '2.4GHz'.
- SSID Index:** A dropdown menu set to 'Primary SSID'.
- MAC Address:** A form with five input fields for the MAC address (e.g., [] : [] : [] : [] : []) and an 'Add' button.
- MAC Address List:** A table with columns for 'ID', 'MAC Address', and 'Delete'. The table is currently empty.
- Upload MAC File:** A section with an 'Upload File' label, a text input field, a '浏览...' (Browse) button, and an 'Upload' button.
- Download MAC File:** A section with a 'Download MAC File' label, the text 'Load MAC File to Local Hard Driver', and a 'Download' button.
- Save:** A large 'Save' button at the bottom right of the settings area.

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-2610 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-2610 to function as a DHCP server.

IP Assigned From: Input the first IP address available for assignment on your network.

IP Pool Range (1-254): Enter the number of IP addresses available for assignment. IP addresses are increments of the IP address specified in the **IP Assigned From** field.

Subnet Mask: All devices in the network must have the same subnet mask to communicate. Enter the subnet mask for the network here.

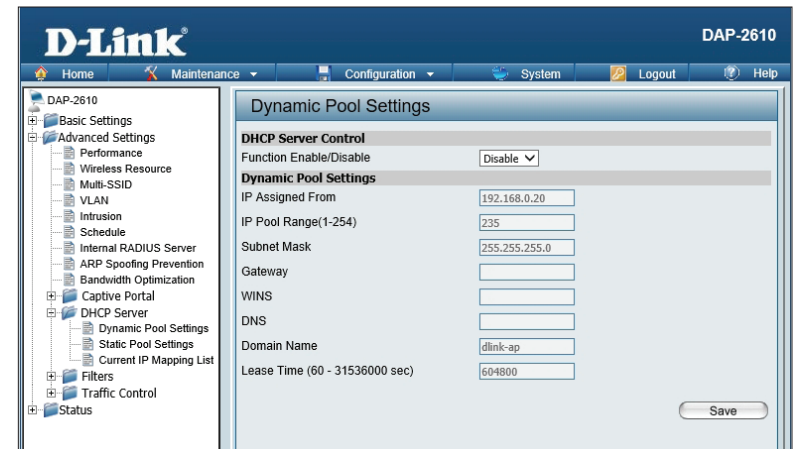
Gateway: Enter the IP address of the gateway on the network.

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

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

Domain Name: Enter the domain name of the network, if applicable.

Lease Time: The lease time is the period of time before the DHCP server will assign new IP addresses.



Static Pool Setting

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

Function Enable/Disable: Dynamic Host Configuration Protocol (DHCP) assigns IP addresses to wireless devices on the network. This protocol simplifies network management and allows new wireless devices to receive IP addresses automatically without the need to manually assign IP addresses. Select **Enable** to allow the DAP-2610 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.

Static Pool Settings

DHCP Server Control

Function Enable/Disable: Enable

Static Pool Setting

Host Name:

Assigned IP:

Assigned MAC Address: : : : : :

Subnet Mask: 255.255.255.0

Gateway:

WINS:

DNS:

Domain Name: dlink-ap

Save

Host Name	MAC Address	IP Address	Edit	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			
Current DHCP Dynamic Pools			
Host Name	Binding MAC Address	Assigned IP Address	Lease Time
Current DHCP Static Pools			
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.

The screenshot shows the D-Link DAP-2610 configuration interface. The main content area is titled "Wireless MAC ACL Settings".

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	Band	Authentication	Signal	Add

Upload ACL File

Upload File : [選擇檔案] [未選擇任何檔案] [Upload]

Download ACL File

Load ACL File to Local Hard Driver : [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 displays the D-Link DAP-2610 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, DHCP Server, Filters (Wireless MAC ACL, WLAN Partition, IP Filter Settings), Traffic Control, and Status. The main content area is titled "IP Filter Settings" and contains the following fields:

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

Below these fields is an "Add" button. A table with the following headers is present:

ID	IP Address	Subnet Mask	Delete
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At the bottom, there are two sections:

- Upload IP Filter File:** Includes an "Upload File:" label, a text input field, a "浏览..." (Browse) button, and an "Upload" button.
- Download IP Filter File:** Includes a "Load IP Filter File to Local Hard Driver:" label and a "Download" button.

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

Traffic Control

Uplink/Downlink Setting

The **Uplink/Downlink Settings** page allow you to customize the 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.

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

Downlink Bandwidth: The downlink bandwidth in Mbits per second.

Uplink Bandwidth: The uplink bandwidth in Mbits per second.

The screenshot displays the D-Link DAP-2610 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 'Uplink/Downlink Settings' selected under 'Traffic Control'. The main content area is titled 'Uplink and Downlink Setting' and features three tabs: 'Ethernet', '2.4GHz', and '5GHz'. The 'Ethernet' tab is active, showing checkboxes for 'Downlink' and 'Uplink'. Below these are sections for 'Downlink Interface' and 'Uplink Interface', each containing checkboxes 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, and a 'Save' button.

QoS

Quality of Service (QoS) enhances the experience of using a network by prioritizing the traffic of different applications. The DAP-2610 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. Click the **Save** button when you are finished.

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.

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.

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.

The screenshot shows the QoS configuration interface. At the top, there is a section titled "QoS" with an "Enable QoS" checkbox. Below this is the "Advanced QoS" section, which contains several rows of settings. Each row includes a priority level dropdown menu, a "Limit" field (usually 100%), and a "Port" field with a range of ports. The "Save" button is located at the bottom right of the configuration area.

Category	Priority	Limit	Port
ACK/DHCP/ICMP/DNS	Highest Priority	100%	53,67,68,546,547
Web Traffic	Third Priority	100%	80,443,3128,8080
Mail Traffic	Second Priority	100%	25,110,465,995
Ftp Traffic	Low Priority	100%	20,21
User Defined-1	Highest Priority	100%	0 - 0
User Defined-2	Second Priority	100%	0 - 0
User Defined-3	Third Priority	100%	0 - 0
User Defined-4	Low Priority	100%	0 - 0
Other Traffic	Low Priority	100%	

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.

Name: Enter the name of the traffic manager rule.

Client IP (optional): Enter the client IP address of the traffic manager rule.

Client MAC (optional): Enter the client MAC address of the traffic manager rule.

Downlink Speed: Enter the downlink speed in Mbits per second.

Uplink Speed: Enter the uplink speed in Mbits per second.

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	Del
<input type="button" value="Save"/>						

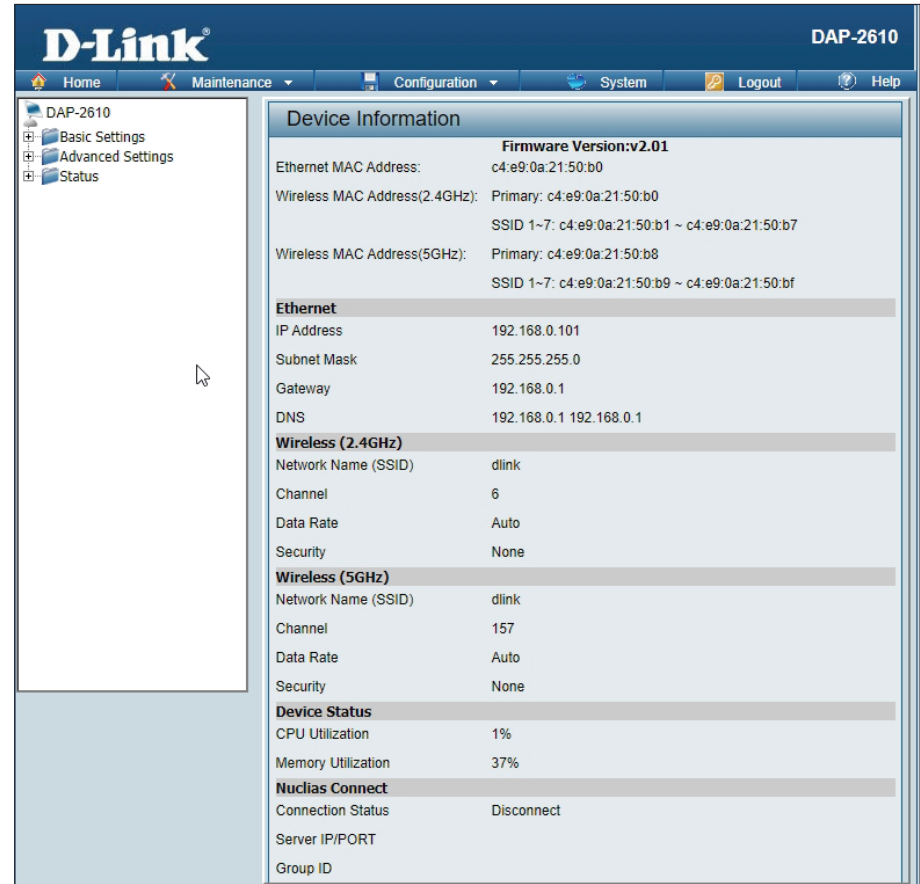
Status

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

Device Information

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

Device Information: This read-only window displays the configuration settings of the DAP-2610, including the firmware version and the device's MAC address.



The screenshot shows the D-Link DAP-2610 web interface. The top navigation bar includes Home, Maintenance, Configuration, System, Logout, and Help. The left sidebar shows a tree view with DAP-2610, Basic Settings, Advanced Settings, and Status. The main content area is titled 'Device Information' and contains the following data:

Device Information	
Firmware Version:v2.01	
Ethernet MAC Address:	c4:e9:0a:21:50:b0
Wireless MAC Address(2.4GHz):	Primary: c4:e9:0a:21:50:b0 SSID 1-7: c4:e9:0a:21:50:b1 ~ c4:e9:0a:21:50:b7
Wireless MAC Address(5GHz):	Primary: c4:e9:0a:21:50:b8 SSID 1-7: c4:e9:0a:21:50:b9 ~ c4:e9:0a:21:50:bf
Ethernet	
IP Address	192.168.0.101
Subnet Mask	255.255.255.0
Gateway	192.168.0.1
DNS	192.168.0.1 192.168.0.1
Wireless (2.4GHz)	
Network Name (SSID)	dlink
Channel	6
Data Rate	Auto
Security	None
Wireless (5GHz)	
Network Name (SSID)	dlink
Channel	157
Data Rate	Auto
Security	None
Device Status	
CPU Utilization	1%
Memory Utilization	37%
Nuclias Connect	
Connection Status	Disconnect
Server IP/PORT	
Group ID	

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-2610.

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 clients information for the network.

Client Information							
Client Information		Station association (2.4GHz) : 0					
SSID	MAC	Band	Authentication	RSSI	Power Saving Mode	System Info	
Client Information		Station association(5GHz) : 0					
SSID	MAC	Band	Authentication	RSSI	Power Saving Mode	System Info	

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-2610.

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 window titled "WDS Information" containing two tables. The first table is for Channel 1 (2.412 GHz) and the second is for Channel 36 (5.18 GHz). Both tables have columns for Name, MAC, Authentication, Signal, and Status.

WDS Information				
Channel : 1 (2.412 GHz)				
Name	MAC	Authentication	Signal	Status

WDS Information				
Channel : 36 (5.18 GHz)				
Name	MAC	Authentication	Signal	Status

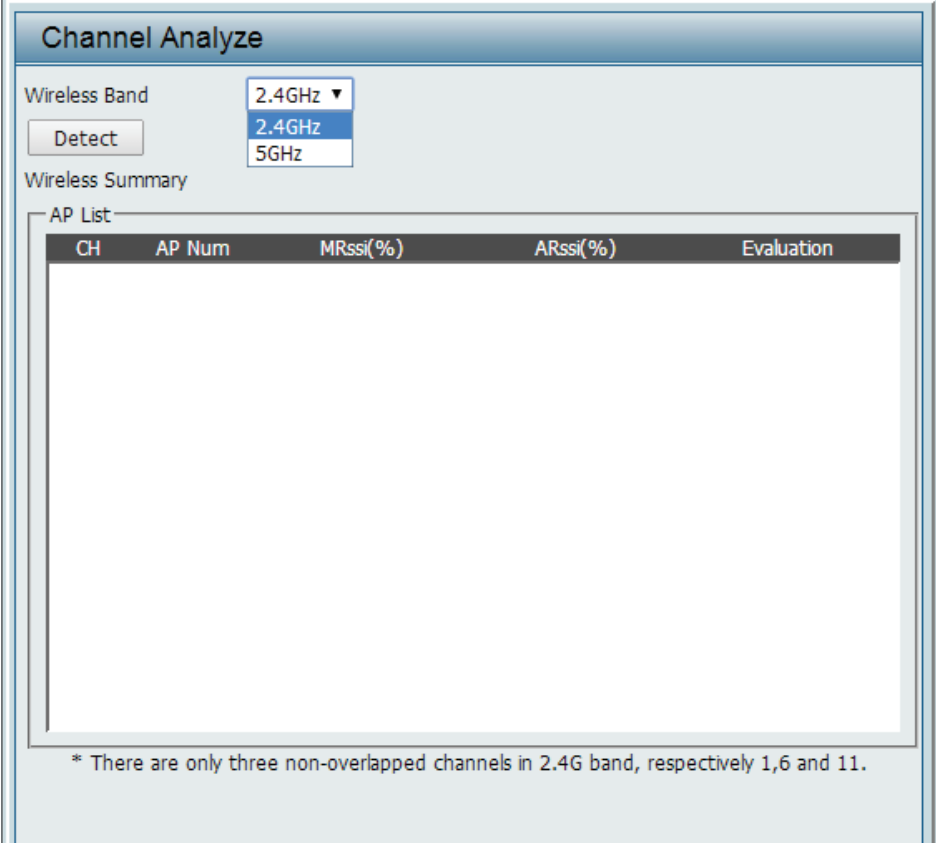
Channel Analyze

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

Detect: Click the **Detect** button to scan.

AP List: This will list the transmitting channels and quality.

Wireless Summary: The wireless summary list displays after clicking **Detect**.



Channel Analyze

Wireless Band: 2.4GHz ▾
2.4GHz
5GHz

Detect

Wireless Summary

AP List

CH	AP Num	MRssi(%)	ARssi(%)	Evaluation
----	--------	----------	----------	------------

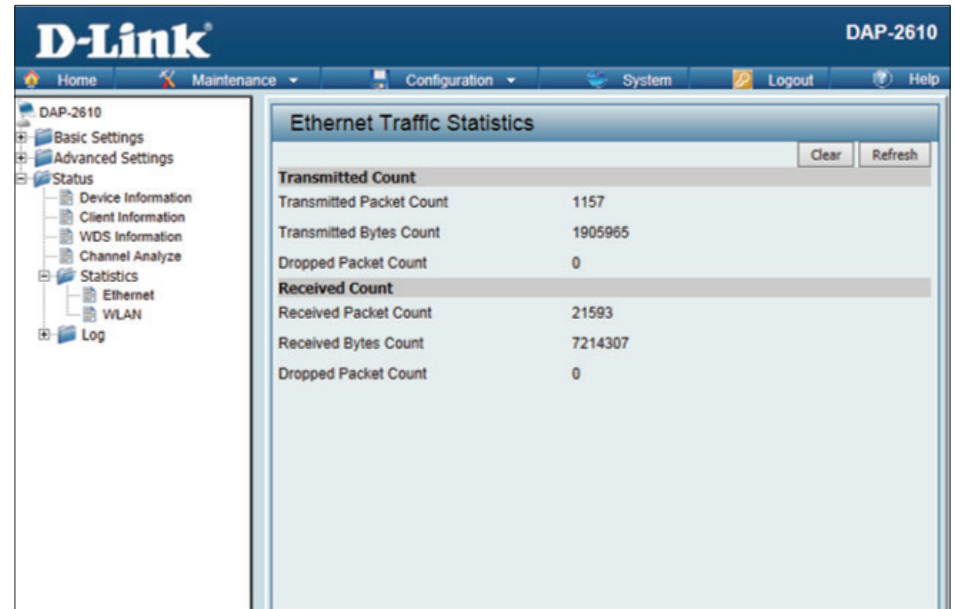
* There are only three non-overlapped channels in 2.4G band, respectively 1,6 and 11.

Stats Page

Ethernet Traffic Statistics

Displays wired interface network traffic information.

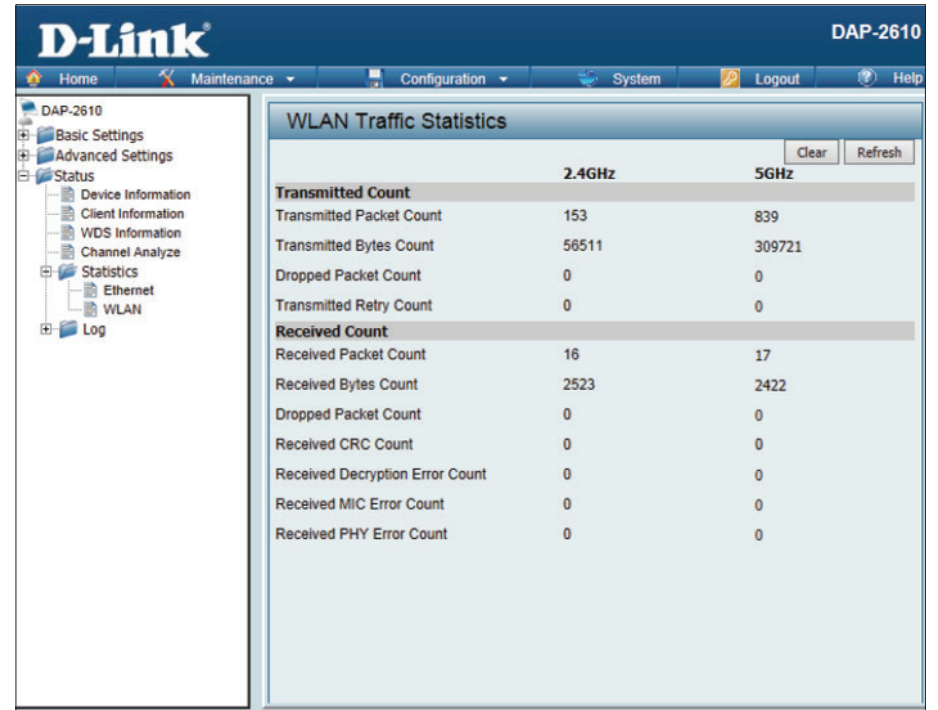
Ethernet Traffic Statistics: This page displays transmitted and received statistics for packets and bytes.



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-2610 web interface. The top navigation bar includes Home, Maintenance, Configuration, System, Logout, and Help. The left sidebar shows a tree view with categories: Basic Settings, Advanced Settings, Status, Device Information, Client Information, WDS Information, Channel Analyze, Statistics (with sub-items Ethernet and WLAN), and Log. The main content area is titled 'WLAN Traffic Statistics' and features a table with columns for 2.4GHz and 5GHz. The table is divided into 'Transmitted Count' and 'Received Count' sections. Buttons for 'Clear' and 'Refresh' are located at the top right of the table.

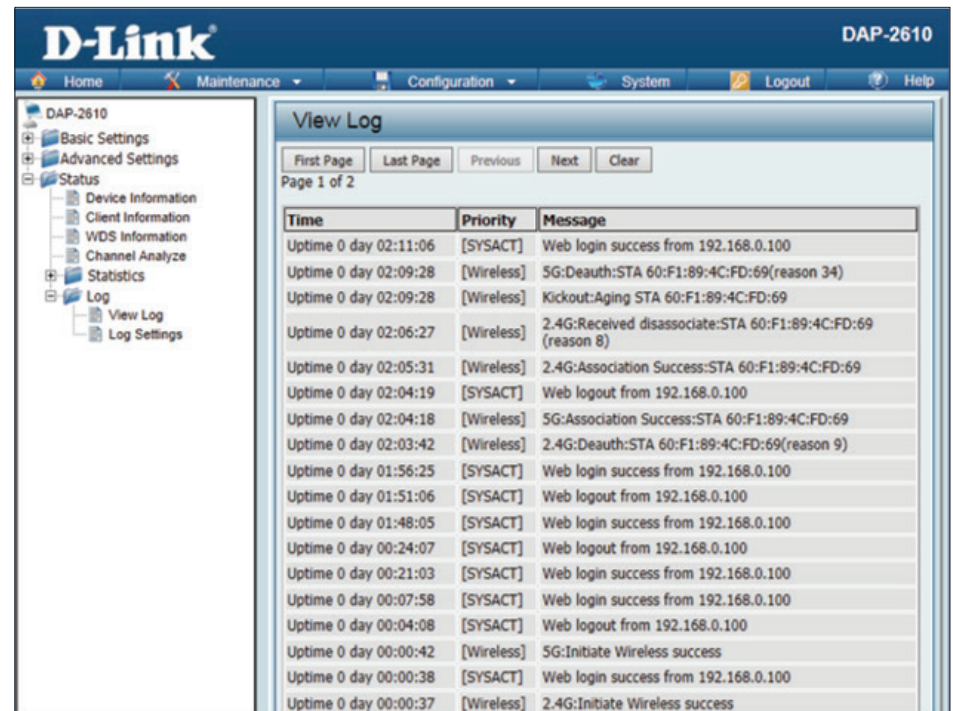
	2.4GHz	5GHz
Transmitted Count		
Transmitted Packet Count	153	839
Transmitted Bytes Count	56511	309721
Dropped Packet Count	0	0
Transmitted Retry Count	0	0
Received Count		
Received Packet Count	16	17
Received Bytes Count	2523	2422
Dropped Packet Count	0	0
Received CRC Count	0	0
Received Decryption Error Count	0	0
Received MIC Error Count	0	0
Received PHY Error Count	0	0

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 displays the D-Link DAP-2610 web management interface. The top navigation bar includes links for Home, Maintenance, Configuration, System, Logout, and Help. The left sidebar menu shows the following structure:

- DAP-2610
 - Basic Settings
 - Advanced Settings
 - Status
 - Device Information
 - Client Information
 - WDS Information
 - Channel Analyze
 - Statistics
 - Log
 - View Log
 - Log Settings

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 log server.

Log Type: Check the boxes to select the log type.

Log Server / IP Address: Enter the IP address of the EU directive Syslog server.

E-mail Notification: Check the box to enable sending email notification.

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.

From Email Address: Enter the email address.

To Email Address: Enter the email address.

Email Server Address: Enter the email server address.

The screenshot displays the 'Log Settings' configuration page for a D-Link DAP-2610 device. The interface is organized into a sidebar menu on the left and a main content area on the right. The main content area is titled 'Log Settings' and contains several sections:

- Log Server Settings:** Features a text input field for 'Log Server / IP Address' and three checked checkboxes for 'System Activity', 'Wireless Activity', and 'Notice'.
- EU directive Syslog Server Settings:** Includes a text input field for 'Log Server / IP Address'.
- Email Notification:** Contains a checked 'Email Notification' checkbox, a dropdown menu for 'Outgoing mail server (SMTP)' set to 'Internal', and unchecked checkboxes for 'Authentication' and 'SSL/TLS'. Below these are text input fields for 'From Email Address', 'To Email Address', 'Email Server Address', 'SMTP Port', 'User Name', 'Password', and 'Confirm Password'.
- Email Log Schedule:** Includes a dropdown menu for 'Schedule' set to '0' and the text 'hours or when Log is full'.

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

SMTP Port: Enter the SMTP port.

User Name: Enter the name of the new user entry.

Password: Enter the password set for the email notification.

Confirm Password: Retype the password entry to confirm the password.

Schedule: Click the drop-down menu to set email log schedule.

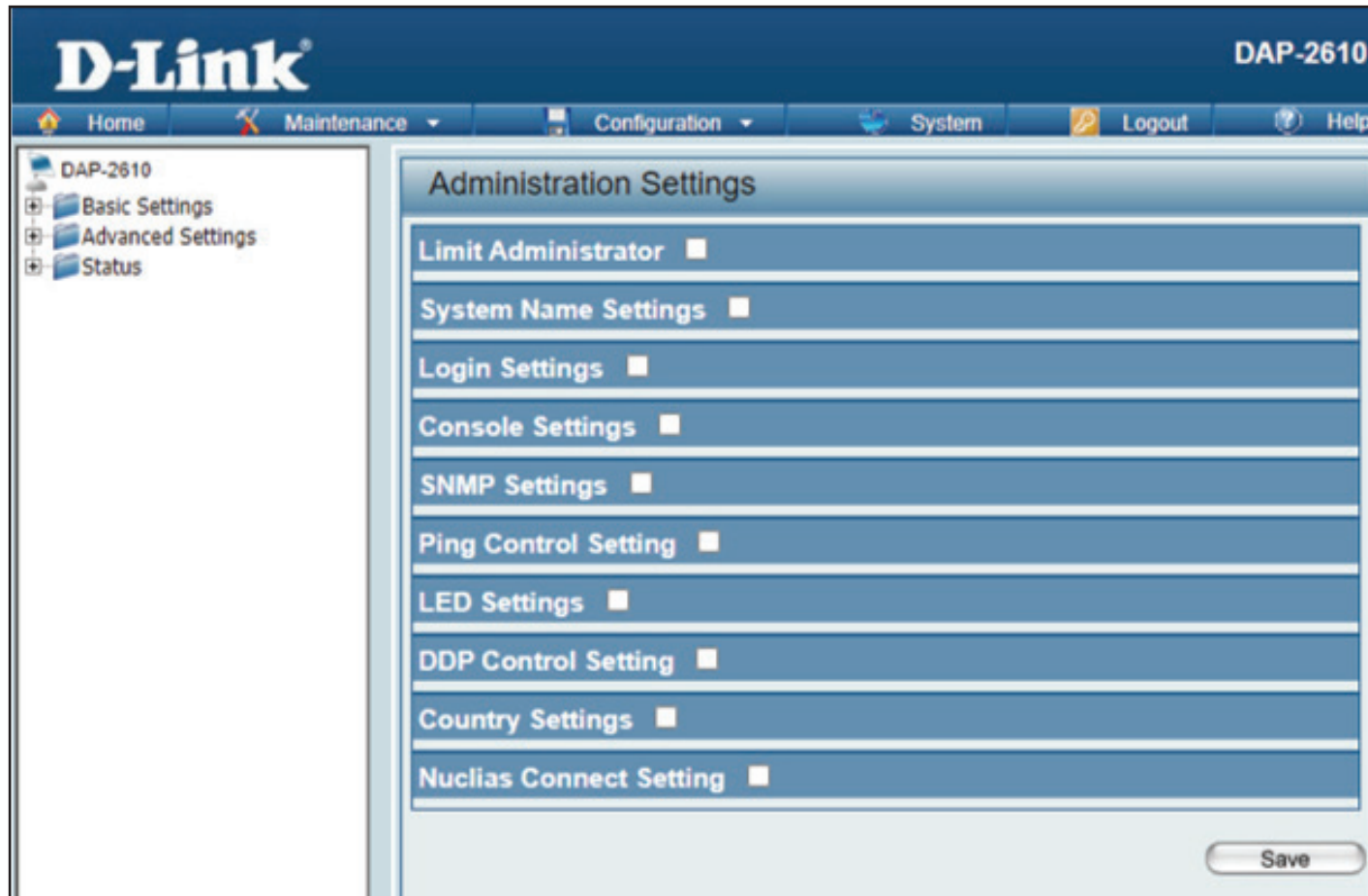
The screenshot displays the D-Link DAP-2610 web management interface. The top navigation bar includes 'Home', 'Maintenance', 'Configuration', 'System', 'Logout', and 'Help'. A left sidebar menu shows 'DAP-2610' with sub-items: 'Basic Settings', 'Advanced Settings', 'Status', 'Device Information', 'Client Information', 'WDS Information', 'Channel Analyze', 'Statistics', 'Log', 'View Log', and 'Log Settings'. The main content area is titled 'Log Settings' and is divided into three sections:

- Log Settings:** Contains 'Log Server / IP Address' (text input), 'Log Type' (checkboxes for System Activity, Wireless Activity, and Notice, all checked), and 'EU directive Syslog Server Settings' with a 'Log Server / IP Address' (text input).
- Email Notification:** Contains 'Email Notification' (checkbox, unchecked), 'Outgoing mail server (SMTP)' (dropdown menu, 'Internal'), 'Authentication' (checkbox, unchecked), 'SSL/TLS' (checkbox, unchecked), 'From Email Address' (text input), 'To Email Address' (text input), 'Email Server Address' (text input), 'SMTP Port' (text input), 'User Name' (text input), 'Password' (text input), and 'Confirm Password' (text input).
- Email Log Schedule:** Contains 'Schedule' (dropdown menu, '0' selected) and the text 'hours or when Log is full'.

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

Maintenance Section

In the **Maintenance** section, you can configure miscellaneous settings for the DAP-2610. The following pages will explain settings found in this section in more detail.



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.

ID: the VLAN ID that the administrator will be allowed to log in from.

Limit Administrator IP: Check to limit the range of IPs that the administrator will be allowed to log in from.

IP Range: Enter the IP address range that the administrator will be allowed to log in from and then click the **Add** button.

The screenshot shows a web-based configuration page titled "Limit Administrator" with a checked checkbox. It contains the following fields and controls:

- Limit Administrator VLAN ID:** A checkbox labeled "Enable" and a text input field containing the number "1".
- Limit Administrator IP:** A checkbox labeled "Enable".
- IP Range:** Two text input fields labeled "From:" and "To:" with an "Add" button to the right.
- Table:** A table with four columns: "Item", "From", "To", and "Delete". The table is currently empty.
- Navigation Menu:** A vertical list of settings categories, each with a square icon: "System Name Settings", "Login Settings", "Console Settings", "SNMP Settings", "Ping Control Setting", "LED Settings", and "Central WiFiManager Setting".
- Save Button:** A "Save" button located at the bottom right of the page.

System Name Settings

System Name: The name of the device. The default name is **dap2610**.

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

System Name Settings <input checked="" type="checkbox"/>	
System Name	<input type="text" value="dap2610"/>
Location	<input type="text"/>

Login Settings

User Name: Enter a username for the web UI. The default is **admin**.

Old Password: When changing your password, enter the old password here.

New Password: When changing your password, enter the new password here. The password is case-sensitive. The length should be between 0 and 12 characters.

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

Login Settings <input checked="" type="checkbox"/>	
Login Name	<input type="text" value="admin"/>
New Password	<input type="text"/>
Confirm Password	<input type="text"/> <input type="checkbox"/> Apply New Password

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**.

Console Settings <input checked="" type="checkbox"/>	
Status	<input checked="" type="checkbox"/> Enable
Console Protocol	<input checked="" type="radio"/> Telnet <input type="radio"/> SSH
Timeout	3 Mins <input type="button" value="v"/>

SNMP Settings

Status: Check the box to enable the SNMP functions. This is enabled by default.

Public Community String: Enter the public SNMP community string.

Private Community String: Enter the private SNMP community string.

Trap Status: Check the box to enable the trap status.

Trap Server: Enter the trap server IP address. This is the IP address of the SNMP manager that will receive traps sent from the wireless access point.

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.

LED Setting

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

DDP Control Setting

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

DDP Control Setting ✓	
Status	<input checked="" type="checkbox"/> Enable

Country Settings

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

Country Settings ✓	
Select a Country	Taiwan ▼

Nuclias Connect Setting

Enable Nuclias Connect: Check this box to configure the DAP-2610 with Nuclias Connect.

Nuclias Connect Setting ✓	
Enable Nuclias Connect	Disable ▼

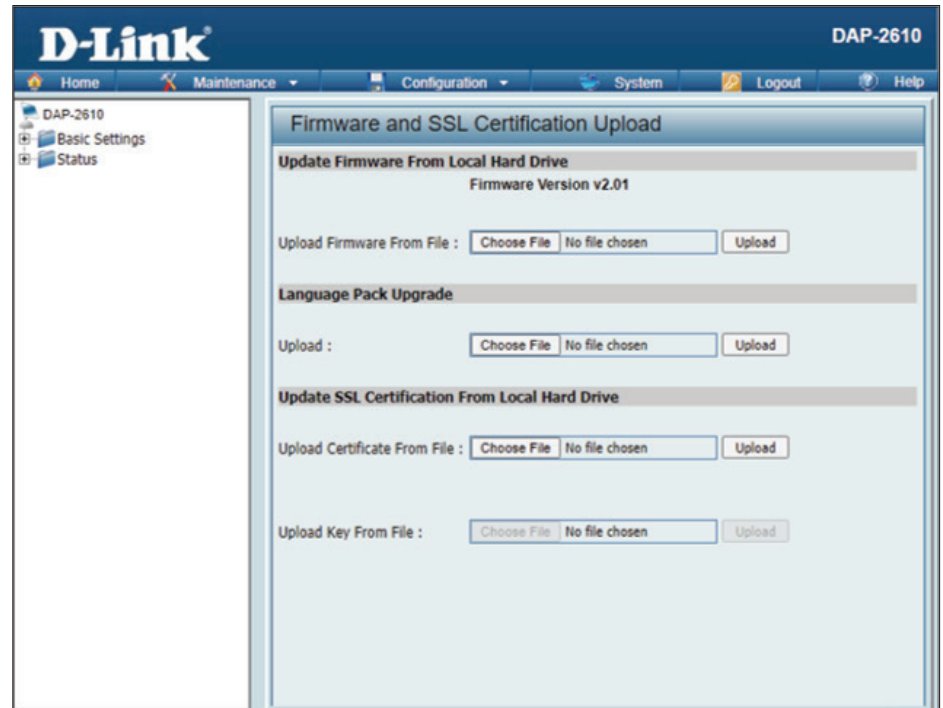
Firmware and SSL Upload

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

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.



The screenshot displays the D-Link DAP-2610 web management interface. The top navigation bar includes links for Home, Maintenance, Configuration, System, Logout, and Help. The main content area is titled "Firmware and SSL Certification Upload" and shows the current "Firmware Version v2.01". Below this, there are three sections for uploading files from the local hard drive: "Update Firmware From Local Hard Drive", "Language Pack Upgrade", and "Update SSL Certification From Local Hard Drive". Each section contains a "Choose File" button, a "No file chosen" status indicator, and an "Upload" button.

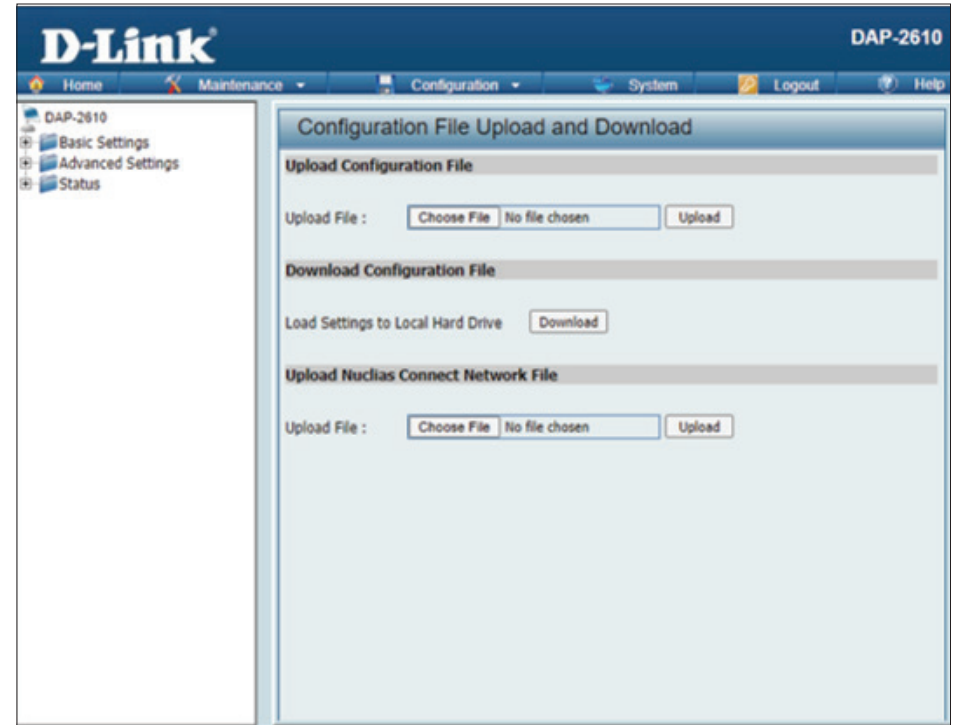
Configuration File Upload

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-2610 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.

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.

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.)

The screenshot shows the D-Link DAP-2610 web interface. The main content area is titled "Time and Date Settings". It is divided into several sections:

- Time Configuration:** Shows the "Current Time" as 01/01/1970 08:39:50.
- Automatic Time Configuration:** Includes a checkbox for "Enable NTP" (unchecked), a text input field for "NTP Server", and a dropdown menu for "Time Zone" set to "(GMT+08:00) Kuala Lumpur, Singapore".
- Set the Date and Time Manually:** Features dropdown menus for "Year" (2020), "Month" (Sep), "Day" (7), "Hour" (17), "Minute" (29), and "Second" (51). A button labeled "Copy Your Computer's Time Settings" is located below these fields.
- Daylight Configuration:** Includes a checkbox for "Enable Daylight Saving" (unchecked), a dropdown for "Daylight Saving Offset" (15), and a table for "Daylight Saving Dates":

	Month	Week	Day	Hour	Minute
DST Start	Jan	1st	Sun	12 am	0
DST End	Jan	1st	Sun	12 am	0

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

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.



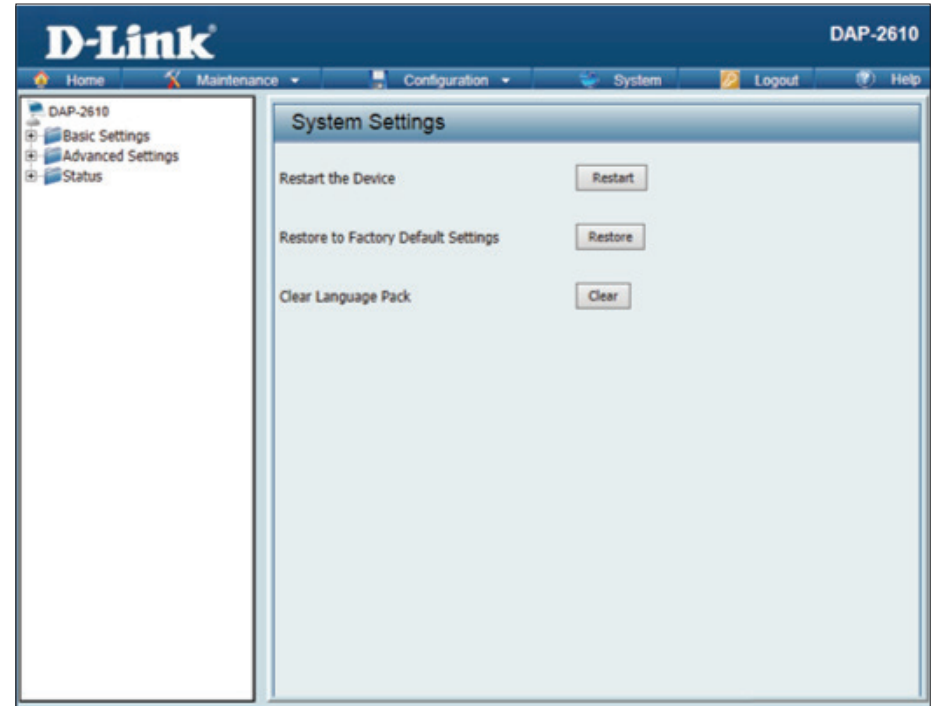
System Settings

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-2610.

Restore to Factory Default Settings: Click **Restore** to restore the DAP-2610 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 802.11a
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.3af
- IEEE 802.3x

Network Management

- Web Browser interface (HTTP, Secure HTTP (HTTPS))
- Nuclias Connect
- SNMP Support (Private MIB)
- Command Line Interface (Telnet, Secure SSH Telnet)

Security

- WPA™ Personal/Enterprise
- WPA2™ Personal/Enterprise
- WPA3™ Personal/Enterprise
- WEP™ 64-/128-bit

Wireless Frequency Range

- 2.4 to 2.4835 GHz and 5.15 to 5.85 GHz**

Operating Voltage

- 802.3af PoE or 12V/1A

Antenna Type

- 2 internal dual-band 3 dBi omni antennas

LEDs

- Power/Status

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

- FCC Class B
- CE
- UL
- IC
- C-Tick
- Wi-Fi

Dimensions

- L = 170 mm
- W = 170 mm
- H = 28 mm

Antenna Pattern

Antenna Pattern		
Orientation	H-Plane	E-Plane
<p>2.4 GHz Ceiling Mounted</p>		
<p>2.4 GHz Wall Mounted</p>		
<p>5 GHz Ceiling Mounted</p>		
<p>5 GHz Wall Mounted</p>		