NUCLIAS CONNECT DAP-2610 User Guide





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Nuclias Connect Introduction

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

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

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

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

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

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

Nuclias Connect Key Features

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

For more information on how to use Nuclias Connect with DAP-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





Connections

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



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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.

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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.



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.



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.



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.

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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.
Кеу:	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.

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WPA Mode: When WPA-Enterprise is selected, you must also select a WPA mode from the drop-down menu: AUTO (WPA or WPA2), WPA2 Only, or WPA3 only.

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

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

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

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

RADIUS Port: Enter the RADIUS port.

RADIUS Secret: Enter the RADIUS secret.

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

Account Port: Enter the account port.

Account Secret: Enter the account secret.

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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.

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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.

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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.

D-Link			DAP-2610
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			Save)

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.



- Transmit Power: This setting determines the power level of the wireless transmission. Transmitting power can be adjusted to eliminate overlapping of wireless area coverage between two access points where interference is a major concern. For example, if wireless coverage is intended for half of the area, then select 50% as the option. Use the drop-down menu to select 100%, 50%, 25%, or 12.5%.
- WMM (Wi-Fi Multimedia): WMM stands for Wi-Fi Multimedia. Enabling this feature will improve the user experience for audio and video applications over your Wi-Fi network.

Ack Time Out To effectively optimize throughput over long-distance links, enter a value for Acknowledgement Time Out between 25 and 200 (2.4 GHZ, 48~200): 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 Adjust the multicast packet data rate here. The multicast rate is supported in **AP mode**, and **WDS with AP mode**, including Multi-Control: SSIDs.

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

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

Wireless Resource Control

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

- 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.

 Pate Threshold:
 When Data Pate is selected in the Aging out drop down menu, select the threshold of the data rate here. When the
- **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 WMM stands for Wi-Fi Multimedia. Enabling this feature Multimedia): will improve the user experience for audio and video applications over a Wi-Fi network.



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.

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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.

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s 6(53)	15	11
5-7150)	20	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 ID: Provide a number between 1 and 4094 for the internal VLAN.
- VLAN Name: Enter the VLAN to add or modify.

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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 .

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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.

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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.



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.

D-Li	Use the drop-down menu to enable the Bandwidth Optimization function.	Enable Bandwidth Optimization:
CONFISION CONFISION	Enter the downlink bandwidth of the device in Mbits per second.	Downlink Bandwidth:
2 mil Advanced Ge de Pertenne de Miletaria de Miletaria de VLAN	Enter the uplink bandwidth of the device in Mbits per second.	Uplink Bandwidth:
 Schedul <	Use the drop-down menu to select the type that is applied to the rule. Available options are: Allocate average BW for each station, Allocate maximum BW for each station, Allocate different BW for 1a/b/g/n stations, and Allocte specific BW for SSID. The rules are described below.	Rule Type:
	The AP will distribute average bandwidth for each client.	Allocate average BW for each station:
105	Specify the maximum bandwidth for each connected client. Reserve certain bandwidth for future clients.	Allocate maximum BW for each station:
	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 different BW for a/b/g/n stations:



Allocate specific BW for All clients share the total bandwidth. SSID:

- 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 timeoutEnter the session timeout value here. This value(1-1440):can be from 1 to 1440 minutes. By default, this
value is 60 minutes.

Band: Select 2.4GHz or 5GHz.

- SSID Index: Select the SSID for this authentication.
- Authentication Type: Select the captive portal encryption type here. 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.



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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 timeoutEnter the session timeout value here. This value(1-1440):can be from 1 to 1440 minutes. By default, this
value is 60 minutes.
 - Band: Select 2.4GHz or 5GHz.
 - **SSID Index:** Select the SSID for this authentication.
- Authentication Type: Select the captive portal encryption type here. 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.	D-Link	at 👼 tavinga
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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.

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D-Link DAP-2610 User Manual

IP Address:	Assign a static IP address that is within the IP address range of your network.
Subnet Mask:	Enter the subnet mask. All devices in the network must share the same subnet mask.
Gateway:	Enter the IP address of the gateway/router in your network.
DNS:	Enter a DNS server IP address. This is usually the local IP address of your gateway/router.
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 Enter the session timeout value here. This value can be (1-1440): 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.

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D-Link DAP-2610 User Manual

IP Address:	Assign a static IP	address that is within the IP	address range of your network.

- Subnet Mask : Enter the subnet mask. All devices in the network must share the same subnet mask.
 - **Gateway**: Enter the IP address of the gateway/router in your network.
 - **DNS**: Enter a DNS server IP address. This is usually the local IP address of your gateway/router.
 - Server: Enter the LDAP server's IP address or domain name here.
 - **Port:** Enter the LDAP server's port number here.
- Authenticate Mode: Select the authentication mode here. Options to choose from are Simple and TLS.
 - Username: Enter the LDAP server account's username here.
 - **Password:** Enter the LDAP server account's password here.
 - **Base DN:** Enter the administrator's domain name here.
- Account Attribute: Enter the LDAP account attribute string here. This string will be used to search for clients.
 - Identity: Enter the identity's full path string here. Alternatively, select the 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 Enter the session timeout value here. This value (1-1440): can be from 1 to 1440 minutes. By default, this value is 60 minutes.
 - Band: Select 2.4GHz or 5GHz.
 - **SSID Index:** Select the SSID for this authentication.
- Authentication Type:Select the captive portal encryption type here.
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

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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.



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

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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	
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Current IP Mapping List

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

	These are IP address pools that the DHCP server has assigned using the dynamic pool setting.	Current IP Mapping List		
Binding MAC Address:	The MAC address of a device on the network that is assigned an IP address from the DHCP dynamic pool.	Current DHCP Dynamic Pools Host Name Finding NAC Address Current DHCP Static Pools Host Name Ending NAC Address	Assented IP Address Assented IP Address	Losse Timu
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.	ii.		
Assigned IP Address:	The current corresponding DHCP-assigned static IP address of the device.			

Filters

Wireless MAC ACL

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

Wireless Band: Displays the current wireless band rate.

Access Control List: Select **Disable** to disable the filters function.

Select **Accept** to accept only those devices with MAC addresses in the Access Control List. All other devices not on the list will be rejected.

Select **Reject** to reject the devices with MAC addresses on the Access Control List. All other devices not on the list will be accepted.

- MAC Address: Enter each MAC address that you wish to include in your filter list, and click **Apply**.
- MAC Address List: When you enter a MAC address, it appears in this list. Highlight a MAC address and click **Delete** to remove it from this list.
 - **Current Client** This table displays information about all the current **Information:** connected stations.



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.

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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 .

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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.

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QoS

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

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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.

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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.

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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.

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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.	WDS Information
Name:	Displays the SSID of the client.	Nomi NAC
MAC:	Displays the MAC address of the client.	
Authentication:	Displays the type of authentication being used.	
Signal:	Displays the client's signal strength.	
Status:	Displays the status of the power saving feature.	

WDS Informat	ion	_	
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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					
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AP List					
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* There are only three non-overlapped channels in 2.46 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.

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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.

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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.

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Provide Sectors	Log Settings	
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General States Harman Harman Control States Harman Harman Control States Harman Harman Control States Harman Control States Harman Control States Harman States Har	Not Server Settings Ung Server Frit Accesses Ung Trans Set Section Access Set Section Ex direction Systep Server Suffrage	
	Lig Server / P. Address	
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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.



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.

D-Lini	K						DAP-	2610
🚯 Home 🔏	Maintenance	•	Configurati	• 10	System	Logout		Help
DAP-2610		Adr	ministration Sett	ings				
Advanced Settings Status		.imi	t Administrator	1				
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		Ping	Control Setting					
		.ED	Settings					
		DDP	Control Setting					
		Cour	ntry Settings 🔲					
		luci	ias Connect Setti	ng 💶				
						(Save	

Administration Limit Administrator

Limit Administrator VLAN Check the box provided and the enter

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

Enable 1		
Enable		
From:	To	Add
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ting		
	0329404	To Delete

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 Sett	ings 🗹	
System Name	dsp2610	
Location		

Login Settings

User Name: Enter a username for the web UI. The		Login Settings 🕜			
	default is admin .	Login Name	admin		
Old Password	When changing your password, enter the	New Passacrd			
old password: when changing your pass old password here.		Confirm Proceed	I	Apply New Prozvort	

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.

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.

Console Settings Ø	
Status	🗹 Enatiw
Console Protocol	@Telnat () 25H
Timetut	Stilens (M)

Timeout: Set to 1 Min, 3 Mins, 5 Mins, 10 Mins, 15 Mins or Never.

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.

Slatue .	C) En	able
SNMPv2 Settings Public Community String	public] 84+++2+000014-001.1497
Private Community String	private	04+++Z-+Q8%*6*(_++0)1.10%
Trap Status	Enable	
Trap Server		0P Address or Demain Name:

Ping Control Setting

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

Ping Control Setting	₹.
Status	🗹 Linable

LED Setting

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

LED Settings 🔽		
LED Status	≋on Ooff	

DDP Control Setting

Status: Check the box to enable the DDP control.	DDP Control Setting 🛛	
This is enabled by default.	Status	🛃 Lustie

Country Settings

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

Country Settings 📓			
Select a Country	Lawen	¥	

Nuclias Connect Setting

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

Nuclias Connect Setting
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Deatle

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	D-Link	DAP-2910 DAP-2910
	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.	Der Sitt Bart Stongs Biltitus	Firmware and SSL Certification Upload Uplate Persents From Local Hard Drive Elements Winker s2.01 uplate Remark Proc. Rel:
Language Pack Upgrade:	Select a file with a language pack to upload to the access point.		upland : In the De Cose: typed
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.		appleed way from Hit; 1

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.

 Browse to the saved configuration file you have in your local drive and click Upload to update the configuration.	D-Link	1
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.	 gesten versige gesten versige gesten versige 	
 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.	D-Link	12					1	DAP 2510
Enable NTP Server:	Check to enable the AP to get system time from an NTP server from the Internet.	Kons Manana Manana Manana Manana Manana Manana	Time and Date S			ican.	ų.	Laged	T I How
NTP Server:	Enter the NTP server IP address.	Bachaord Settingt Bachaord Settingt Bachaord Settingt Bachaord Settingt Bachaord Settingt Bachaord Settingt Bachaord Settingt	Time Configuration Careti Time Automatic Time Con	0101/1919	00 20 50 S				
Time Zone:	Use the drop-down menu to select your time zone.	B V/35 vite vertice B Drayrest Anatoso B B Statistics H B Log	En anne het P Hittil Garrant Trans 2010		1000	1	in.		
Enable Daylight Saving:	Check the box to enable Daylight Saving Time.		Set the Date and The Date And Time	Tear 22 Hear 21	10 V	Mynth Meufa Tuur bete	(30 m) (3 m)	Dev Second	7 - W) 21 - W)
Daylight Saving Dates:	Use the drop-down menu to select the correct Daylight Saving offset.		Depresent Conference protein Destant Soverg Deplet Serving Office		0				
	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		Darhoft Serving Dalwa	DSF Start DST Drd	16325 1	West in P ni P	1249 124 - 4 125 - 4	Hosi 11 an - F 11 an - F	Ministe 1
	the computer in use. (Make sure that the computer's time is set correctly.)							1	199

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 DefaultClick Restore to restore the DAP-2610Settings: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 Battings

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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

