NUCLIAS CONNECT DAP-2620 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 of up to 1,000 Access Points APs, while retaining a robust and centralized management system. 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 tasks.

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 APs without licensing charges, coupled with an inexpensive optional hardware controller (DNH-100 Nuclias Connect 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 administrators 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 and manage a variety of distributed deployments, including setting and 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

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
- Backwards-Compatibility
- 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-2620, please refer to the Nuclias Connect User Guide.

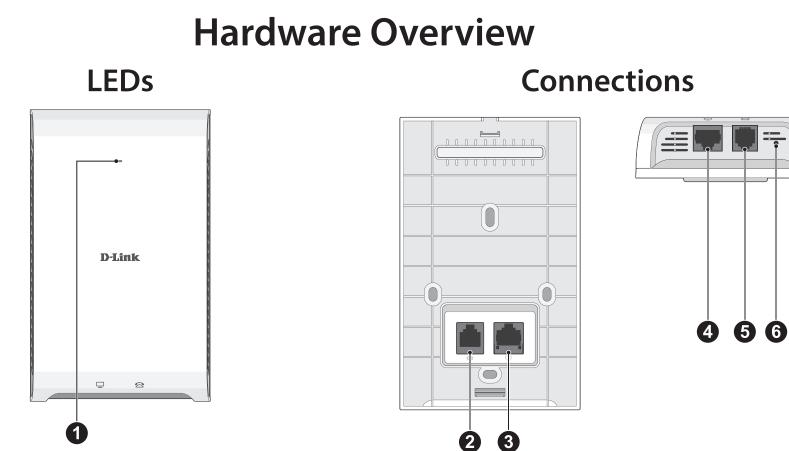
Nuclias Connect

Package Contents

- DAP-2620 802.11ac Power over Ethernet (PoE) Access Point
- Mounting Brackets
- Quick Setup Guide

System Requirements

- Computers with Windows®, Macintosh®, or Linux-based operating systems with an installed Ethernet Adapter
- Internet Explorer 11, Safari 7, Firefox 28, or Google Chrome 33 and above (for configuration)



No.	ltem	LED Color	Description	
1	Power/Status LED	Red (Flashing)	Indicates device booting up/device malfunctioned.	
		Red (Solid)	Indicates the access point has malfunctioned.	
		Green (Solid)	Indicates that the DAP-2620 is working properly.	

No.	ltem	Description
2	RJ11 Uplink Port	Connect to a Private Automatic Branch Exchange (PABX) or telephone line.
3	LAN (PoE) Port	Connect to a Power over Ethernet (PoE) switch via an Ethernet cable.
4	LAN Port	Connect to computer, IP cam or Set-Top Box
5	RJ11 Downlink Port	Connect to a phone via a phone cable.
6	Reset Button	Press and hold for 10 seconds to factory reset the device.

7

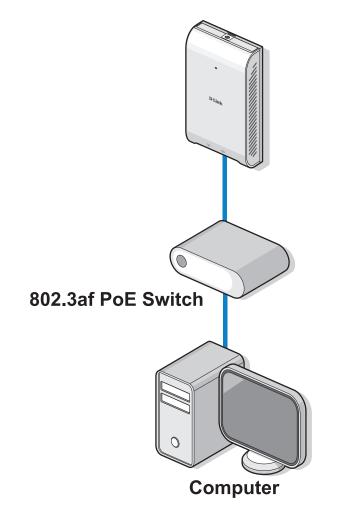
Basic Installation

Hardware Setup

To power on the DAP-2620, you can use the following method:

Plug in one end of your Ethernet cable into the LAN port of the DAP-2620's back panel, and the other end into the port on a switch.

Configure the Access Point



Basic Installation

To set up and manage the DAP-2620, 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 *dap2620.local* in the address field of your browser.

Log in to the Administration Web pages. The default login information is:

Username: admin

Password: admin

2. On your smart device, search for the Nuclias Connect app, or scan the QR codes below.



- 3. Download the Nuclias Connect app.
- 4. Open the Nuclias Connect app and follow the onscreen instructions to discover and setup your device.

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.
- System Country: Click the drop-down menu to select the country.

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

Provide system	Settings
These settings apply	y to this access point
New Password	
Confirm new password	
System Time	 Using Network Time Protocol Manually
System Date System Time(24	Feb • 13 • 2019 • HR) 11 • 8 •
Enable Daylight	Saving
DST Start(24 HF	R) Second ▼ Sunday ▼ in Mar ▼ at 2 ▼ : 0 ▼
DST End(24 HR) First ▼ Sunday ▼ in Nov ▼ at 2 ▼ : 0 ▼
DST Offset(minu	tes) 60 T
System Country Unite	d Kingdom 🔹
Update	

Web User Interface

The DAP-2620 supports an elaborate web user interface where the user can configure and monitor the device. Launch a web browser, type *dap2620.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 section called **Basic Settings**, **Advanced Settings** and **Status**.

D-Link	Ľ							DAP-	2620																	
🛊 Home 🔏	Maintenance	▼	Configuration	•	👙 System	2	Logout	0	Help																	
DAP-2620		System Inf	ormation																							
 ■ Issic Settings ■ Advanced Settings 		Model Name		DAF	P-2620																					
⊞‴ j Status		Firmware Versio	n	v1.0	00 19:33:32 2019/03/25																					
		System Name		dap	2620																					
		Location																								
			System Time		201	9/05/17 16:18:20																				
												Up Time		01:1	16:36											
											Operation Mode	e (2.4GHz)	Acc	ess Point												
			Operation Mode	e (5GHz)	Acc	ess Point																				
																			MAC Address (2	2.4GHz)	00:/	AA:BB:CC:DD:10				
											MAC Address (5GHz)	00:/	AA:BB:CC:DD:18												
																							IP Address		192	

Α

Basic Settings

Wireless Settings

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 Mode

- 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

Wireless Band	Click the drop-down menu to select the wireless band, 2.4GHz or 5GHz.
Operation Mode	Click the drop-down menu to select Access Point .
Network Name (SSID)	Enter the name of Service Set Identifier (SSID) up to 32 characters and is case-sensitive.
SSID Visibility	Click the drop-down menu to enable or disable broadcast the SSID across the network.
uto Channel Selection	Click the drop-down menu to enable automatically selects the channel that provides the best wireless performance. The channel selection process only occurs when the AP is booting up.
Channel	Click the drop-down menu to select the desired channel. The function is only available when Auto Channel Selection is Disable .
	Note: The wireless adapters will automatically

scan and match the wireless settings.

Wireless Settings	
Wireless Band	2.4GHz 🗸
Operation Mode	Access Point V
Network Name (SSID)	dlink
SSID Visibility	Enable V
Auto Channel Selection	Enabled V
Channel	6 🗸
Channel Width	Auto 20/40 MHz 💙
Authentication	Open System 🗸
Key Settings	
Encryption	Disable O Enable
Кеу Туре	ASCII V Key Size 64 Bits V
Key Index (1~4)	1 ¥
Network Key	
Confirm Key	
	$(0-9,a-z,A-Z,\sim!@\#\%\%^{*}()_{-*}={}[],,/<>?)$
	Save

12

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-EAP, 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.

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

Web User Interface

Auto

WDS with AP Mode

Wireless Band	Click the drop-down menu to select the wireless band, 2.4GHz or 5GHz.
Operation Mode	Click the drop-down menu to select WDS with AP .
Network Name (SSID)	Enter the name of Service Set Identifier (SSID) up to 32 characters and is case-sensitive.
Auto Channel Selection	This option is unavailable in WDS with AP mode.
Channel	Click the drop-down menu to select the desired channel. The function is only available when Auto Channel Selection is Disable .
	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.
AP MAC Address	Enter the MAC addresses of the APs on your network that will serve as bridges to wirelessly connect multiple networks.
Site Survey	Click Scan to search for available wireless networks, then click on the available network that you want to connect with.

Wireless Settings		
Wireless Band Operation Mode	2.4GHz V WDS with AP V	^
Network Name (SSID)	dlinkwds	
Auto Channel Selection	Enabled V	
Channel	6 🗸	
Channel Width	Auto 20/40 MHz 🗸	
WDS		
AP MAC Address		
Site Survey	Scan	
Ch Signal MAC Address	Security SSID	
You can click Scan button to star	t.	
Authentication Key Settings	Open System 🗸	
Encryption	Disable Denable	
Кеу Туре	ASCII V Kev Size 64 Bits V	~

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

Web User Interface

WDS Mode

Wireless Band	Click the drop-down menu to select the wireless band, 2.4GHz or 5GHz.
Operation Mode	Click the drop-down menu to select WDS .
Network Name (SSID)	Enter the name of Service Set Identifier (SSID) up to 32 characters and is case-sensitive.
Auto Channel Selection	This option is unavailable in WDS mode.
Channel	Click the drop-down menu to select the desired channel. The function is only available when Auto Channel Selection is Disable .
	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.
AP MAC Address	Enter the MAC addresses of the APs on your network that will serve as bridges to wirelessly connect multiple networks.
Site Survey	Click Scan to search for available wireless networks, then click on the available network that you want to connect with.

Wireless Settings		
Wireless Band Operation Mode Network Name (SSID) Auto Channel Selection Channel Channel Width WDS AP MAC Address Site Survey	2.4GHz V WDS V dinkwds Enabled V 6 V Auto 20/40 MHz V Scan	^
Ch Signal MAC Address (%) MAC Address		
YOU CAN LICK SCAN DUTTON TO STAN	ι.	
Authentication Key Settings	Open System 🗸	
Encryption	Disable Denable	~
Key Type	ASCII V Kev Size 64 Bits V	

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	Click the drop-down menu to select the wireless
	band, 2.4GHz or 5GHz.

- **Operation Mode** Click the drop-down menu to select **Wireless Client**.
- **Network Name (SSID)** Enter the name of Service Set Identifier (SSID) up to 32 characters and is case-sensitive.
 - **SSID Visibility** This option is unavailable in Wireless Client mode.
- Auto Channel Selection Click the drop-down menu to select the desired channel. The function is only available when Auto Channel Selection is Disable.

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

- **Channel** The channel used will be displayed, and matches the AP that the DAP-2620 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 **Scan** to search for available wireless networks, then click on the available network that you want to connect with.
- Authentication Will be explained in the next topic.
 - **Enable** Check the box to enable the Wireless MAC Clone function.
 - MAC Source Click the drop-down menu to select Auto or Manual.

Wireless Settings		
Wireless Band	2.4GHz 🗸	^
Operation Mode	Wireless Client 🗸	
Network Name (SSID)		
SSID Visibility	Enable 🗸	
Auto Channel Selection	Enabled V	
Channel	6 🗸	
Channel Width	Auto 20/40 MHz 🗸	
Site Survey		
	Scan	
Ch Signal MAC Address	Security SSID	
<u> </u>		
You can click Scan button to start		
You can click Scan button to start		ł
You can click Scan button to start		ľ
You can click Scan button to start		ľ
You can click Scan button to start		
You can click Scan button to start Authentication	Open System V	
Authentication Key Settings	Open System 🗸	
Authentication		
Authentication Key Settings	Open System 🗸	~

MAC Address When MAC Source is set to Manual, click Scan to find the MAC address to clone.

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

Wireless Security

Wireless security is a key concern for any wireless network installed. Unlike any other networking method wireless networks will broadcast it's presence for anyone to connect to it. Today, wireless security has advanced to a level where it is virtually impenetrable.

There are mainly two forms of wireless encryption and they are 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 now encryption. WPA is the newest encryption standard and with the advanced WPA2 standard wireless networks have finally reach a point where the security is strong enough to give users the peace of mind when installing wireless networks.

Wired Equivalent Privacy (WEP)

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

- **Open System** will send a request to the access point and if the key used matches the one configured on the access point, the access point will return a success message back to the wireless client. If the key does not match the one configured on the access point, the access point will deny the connection request from the wireless client.
- Shared Key will send a request to the access point and if the key used matches the one configured on the access point, the access point will send a challenge to the client. The client will then again send a confirmation of the same key back to the access point where the access point will either return a successful or a denial packet back to the wireless client.
 - **Encryption** Click the radio button to disable or enable encryption.
 - Key Type Click the drop-down menu to select HEX* or ASCII**.
 - Key Size Click the drop-down menu to select 64 Bits or 128 Bits.
 - Key Index (1~4) Click the drop-down menu to select the 1st through the 4th key to be the active key.
 - **Network Key** Input the characters which will define the network key.
 - **Confirm Key** Re-enter the value as entered in the Network Key to confirm the setting.
 - Save Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

* 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.

Wireless Settings	
Wireless Band Operation Mode	2.4GHz V Access Point V
Network Name (SSID) SSID Visibility	dlink Enable V
Auto Channel Selection	Enabled V
Channel Channel Width	6 V Auto 20/40 MHz V
Authentication Key Settings	Open System
Encryption	Disable Denable
Key Type Key Index (1~4)	ASCII V Key Size 64 Bits V
Network Key	
Confirm Key	(0-9,a-z,A-Z,~!@#\$%^&*()_+`-={}[,:'' ,./<>?)
	Save

Wi-Fi Protected Access (WPA / WPA2)

The WPA protocol is based on the 802.11i standard. WPA offers two variations called WPA-Personal (PSK) and WPA-Enterprise (EAP). WPA-EAP requires the user to install a Radius Server on the network for authentication, while WPA-Personal does not. In comparison, WPA-PSK is seen as a weaker authentication variation than WPA-EAP. WPA-EAP is the highest level of wireless security a user can use for wireless today. WPA2 is an upgrade of WPA and solves security issues found in WPA. WPA2 also offers two variations called WPA2-Personal (PSK) and WPA2-EAP. Enterprise (EAP) similar to WPA.

WPA Mode When Authentication setting is set to WPA-Personal, click the drop-down menu to select one of the following: Auto (WPA or WPA2), WPA2 Only, or WPA Only.

Auto (WPA or WPA2) allows the device to select either setting to match the client configuration.

- Cipher Type Click the drop-down menu to select the cipher type for the WPA setting, type: Auto, AES, or TKIP.
- **Group Key Update** Enter the interval period in seconds in which the **Interval** interval period is valid.
 - **Encryption key** Select the method to define the cipher type encryption key: **Manual** or **Periodical Key Change**.
 - **Manual:** Enter the PassPhrase encryption key. The minimum and maximum number of characters is 8 to 63 ASCII characters and 64 characters in HEX. In the Confirm PassPhrase field enter the same key to confirm.
 - **Periodical Key Change:** Select the option to have each client negotiate an unique encryption key between the client and the access point.
 - Save Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

Wireless Settings	
Wireless Band	2.4GHz 💙
Operation Mode	Access Point
Network Name (SSID)	dlink
SSID Visibility	Enable V
Auto Channel Selection	Enabled V
Channel	6 🗸
Channel Width	Auto 20/40 MHz 🗸
Authentication	WPA-Personal V
PassPhrase Settings	
WPA Mode	AUTO (WPA or WPA2) V
Cipher Type	Auto V Group Key Update Interval 3600 (Sec)
 Manual 	O Periodical Key Change
Time Interval	1 (1~168)hour(s)
PassPhrase	
Confirm PassPhrase	
	notice: 8~63 in ASCII or 64 in Hex.
	$(0-9,a-z,A-Z,\sim!@\#\$\%^&*()_+`=\{\{[],\cdot,"],./<>?)$
	Save

WPA Mode When Authentication setting is set to WPA-EAP, click the drop-down menu to select one of the following: Auto (WPA or WPA2), WPA2 Only, or WPA Only.

Auto (WPA or WPA2) allows the device to select either setting to match the client configuration.

- Cipher Type Click the drop-down menu to select the cipher type for the WPA setting, type: Auto, AES, or TKIP.
- **Group Key Update** Enter the interval period in seconds in which the **Interval** interval period is valid.
 - **RADIUS Server** Enter the IP address of the RADIUS server to be used to authenticate.

Radius Port Enter the RADIUS port.

- **RADIUS Secret** Enter the shared secret to be used between the radius server and the DAP to authenticate.
- Accounting Mode Click the drop-down menu to enable or disable the accounting mode.
- Accounting Server Enter the IP address of the accounting server.
 - Accounting Port Enter the accounting port.
- Accounting Secret Enter the accounting secret.
 - Save Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

Wireless Settings 2.4GHz 🗸 Wireless Band Operation Mode Access Point V Network Name (SSID) dlink SSID Visibility Enable 🗸 Auto Channel Selection Enabled 🗸 Channel 6 V Channel Width Auto 20/40 MHz 🗸 WPA-EAP \sim Authentication RADIUS Server Settings WPA Mode AUTO (WPA or WPA2) V Cipher Type Auto V Group Key Update Interval 3600 (Sec) RADIUS Server Mode RADIUS Server External Internal Primary RADIUS Server Setting RADIUS Server Radius Port 1812 RADIUS Secret (0-9,a-z,A-Z,~!@#\$%^&*()_+`-={}[];':"|,./<>?) Backup RADIUS Server Setting (Optional) RADIUS Server Radius Port 1812

RADIUS Secret

LAN

LAN is short for Local Area Network. This is considered your internal network. These are the IP settings of the LAN interface for the DAP-2620. These settings may be referred to as private settings. You may change the LAN IP address if needed. The LAN IP address is private to your internal network and cannot be seen on the Internet.

- Get IP From Click the drop-down menu to select IP address setting mode.
 - Static IP (Manual): Select this setting to assign a static IP address to the device.
 - **Dynamic IP (DHCP)**: Select this setting to obtain an IP address from a DHCP server on the network.

IP Address Enter the IP address to assign a static IP address

- **Subnet Mask** Enter the subnet mask. All devices in the network must share the same subnet mask.
- **Default Gateway** Enter the IP address of the gateway/router in your network.
 - **DNS** Enter a DNS server IP address. This is usually the local IP address of your gateway/router.
 - Save Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

LAN Settings	
Get IP From	Dynamic IP (DHCP) V
IP Address	192.168.1.166
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
DNS	192.168.1.201
	Save

IPv6

Enable IPv6 Check to enable the IPv6.

- Get IP From Click the drop-down menu to select IPv6 address setting mode.
 - **Auto**: Choose this option the DAP-2620 can get IPv6 address automatically. The other fields will be grayed out.
 - Static: to set IPv6 address manually.
- **IP Address** Enter the LAN IPv6 address used.

Prefix Enter the LAN subnet prefix length value used.

- **Default Gateway** Enter the LAN default gateway IPv6 address used.
 - Save Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

IPv6 Settings	
Enable IPv6	
Get IP From	Auto 🗸
IP Address	
Prefix	
Default Gateway	
	Save

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.

🛊 Home 🐐 Maintenance	Maintenance 👻 🚽 Configuration	👻 💝 System	💋 Logout	🕐 Help
bore Maintenance basic Settings Advanced Settings Advanced Settings VLAN Intrusion Schedule Internal RADIUS Server ARP Spoofing Prevention Bandwidth Optimization Captive Portal DEACP Server Filters Traffic Control Status	Maintenance Configuration System Information Model Name urce Firmware Version System Name Location System Time Prevention Up Time	 System DAP-2620 v1.00 19:33:32 2019/03/25 dap2620 2019/05/17 16:18:20 01:16:36 Access Point Access Point O0:AA:BB:CC:DD:10 00:AA:BB:CC:DD:18 192.168.1.166 	2 Logout	(t) Help

Performance

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

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

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

Data Rate* When Wireless Mode is set to Mixed 802.11b, 802.11g (for 2.4GHz) and 802.11a Only (for 5GHz), click the drop-down menu to indicate the base transfer rate of wireless adapters on the wireless LAN. The AP will adjust the base transfer rate depending on the base rate of the connected device. If there are obstacles or interference, the AP will derate the transfer rate.

Beacon Interval (40-500) Beacons are packets sent by an access point to synchronize a wireless network. Specify a value in milliseconds. The default (100) is recommended. Setting a higher beacon interval can help to save the power of wireless clients, while setting a lower one can help a wireless client connect to an access point faster.

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

Web User Interface

- **DTM 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** Use the drop-down menu to 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.
- WMM (Wi-Fi Multimedia) This function is available for Mixed 802.11g and 802.11b in 2.4GHz and 802.11a Only in 5GHz wireless bands. Click the dropdown menu to enable or disable the WMM function. WMM stands for Wi-Fi Multimedia. Enabling this feature will improve the user experience for audio and video applications over a Wi-Fi network.
 - Ack Time Out To effectively optimize throughput over long distance links enter a value for Acknowledgement Time Out between 25 and 200 microseconds for 5GHz or between 48 and 200 microseconds in the 2.4GHz in the field provided.
 - **Short GI** Click the drop-down menu to enable or disable the short GI function. 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 Click the drop-down menu to enable or disable the IGMP Snooping function. 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 Click the drop-down menu to select the multicast rate to adjust multicast packet data rates.
 - Multicast Bandwidth Adjust the multicast packet data rate. The multicast rate is supported in AP mode, (2.4GHz and 5GHz) and WDS with AP mode, Control including Multi-SSIDs.
 - Maximum Multicast Set the multicast packets maximum bandwidth pass through rate from the Ethernet interface to the Access Point. The function is **Bandwidth** only available when **Multicast Bandwidth Control** is **Enable**.
 - HT20/40 Coexistence Click the drop-down menu to enable the function 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 over-lapping and causing interference, the Access Point will automatically change to 20 MHz.
 - Transfer DHCP Offer to Click the drop-down menu to enable the function to transfer the DHCP Offer to Unicast from LAN to WLAN, suggest to enable Unicast this function if stations number is larger than 30.
 - **STP (Spanning tree)** Click the drop-down menu to enable the spanning tree function.

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

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** Click the drop-down menu to enable the Band Steering function. When the wireless clients support both 2.4GHz and 5GHz and the 2.4GHz signal is not strong enough, the device will use 5GHz as higher priority.
- Wireless Band Click the drop-down menu to select the wireless band, 2.4GHz or 5GHz.
- **Connection Limit** Click the drop-down menu to enable or disable the connection limit function. The option is 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-2620 will not allow clients to associate with the AP.
- User Limit (1 64) This function is only available when Connection Limit is enabled. Set the maximum amount of users that are allowed access (1 - 64 users) to the device using the specified wireless band.
 - **11n Preferred** This function is only available when Connection Limit is enabled. 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.

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

Network Utilization Click the drop-down menu to set the maximum utilization of this access point for service. The DAP-2620 will not allow any new clients to associate with the AP if the utilization exceeds the value the user specifies. When this network utilization threshold is reached, the device will pause one minute to allow network congestion to dissipate.

Aging out Use the drop-down menu to select the criteria of disconnecting the wireless clients.

- **RSSI Threshold** When **Aging out** is **RSSI**, click the drop-down menu to select the percentage of RSSI. When the RSSI of wireless clients is lower than the specified percentage, the device disconnects the wireless clients. The function is only available when **Aging out** is **RSSI**.
- Data Rate Threshold When Aging out is Data Rate, click the drop-down menu to select the threshold of data rate. When the data rate of wireless clients is lower than the specified number, the device disconnects the wireless clients. The function is only available when Aging out is Data Rate.
 - ACL RSSI Click the drop-down menu to enable the ACL RSSI 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 Click the drop-down menu to set the ACL RSSI Threshold.
 - **Save** Click to save the updated configuration. To make the updates permanent, click **Configuration > Save and Activate**.

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.
 - Enable Priority Check to enable the Priority function.
 - **Band** Click the drop-down menu to select the wireless band, 2.4GHz or 5GHz.
 - Index You can select up to three multi-SSIDs. With the Primary SSID, you have a total of four multi-SSIDs.
 - **SSID** This function is only available when Index is not set to Primary SSID. Enter the Service Set Identifier (SSID) designated for a specific wireless local area network (WLAN). The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network.
 - **SSID Visibility** This function is only available when Index is not set to Primary SSID. Enable or Disable SSID visibility. Enabling this feature broadcasts the SSID across the network, thus making it visible to all network users.
 - Security This function is only available when Index is not set to Primary SSID. Click the drop-down menu to select the security encryption, options include: WPA-Personal, WPA-EAP, or 802.1X.
 - Priority This function is only available when Enable Priority is selected. Click the drop-down menu to select the priority level of the SSID selected. The function is only available when **Enable Priority** is checked.

Multi-SSID Settings	_	_	_	_	
Enable Multi-SSID Wireless Settings	Enable Priority				^
Band	2.4GHz 🗸				
Index	Primary SSID V				
SSID	dlink				
SSID Visibility	Enable V				
Security	Open System 🗸				
Priority	0 🗸				
WMM (Wi-Fi Multimedia)	Enable 🗸				
Key Settings					
Encryption	Disable	able			
Кеу Туре	ASCII 🗸 Key	Size	64 Bits 🗸		
Key Index (1~4)	1 🗸				
Network Key					
Confirm Key					
	(0-9,a-z,A-Z,~!@#\$%	^&*()_+`-={}];':" ,./<>?)		
				Add	
Index SSID	Band Auth Meti	nentication hod	Encryption Type	Delete	~

- WMM (Wi-Fi Multimedia) This function is only available when WMM under Performance Settings is enabled. Click the drop-down menu to enable or disable the WMM function. WMM stands for Wi-Fi Multimedia. Enabling this feature will improve the user experience for audio and video applications over a Wi-Fi network.
 - **Encryption** This function is only available when multi-SSID is enabled and Index is an SSID other than Primary SSID. Click the radio button to enable or disable the encryption. If **Enable** is selected the following configurations are required: Key Type, Key Size, Key Index (1~4), Network Key, and Confirm Key.
 - Key Type Click the drop-down menu to select HEX or ASCII.
 - Key Size Click the drop-down menu to select 64 Bits or 128 Bits.
 - Key Index (1~4) Click the drop-down menu to select from the 1st to 4th key to be set as the active key.
 - Network Key Input up to four keys for encryption. You will select one of these keys in the Key Index drop-down menu.
 - **Confirm Key** Re-enter the value as entered in the Network Key to confirm the setting.
 - WPA Mode When Security setting is set to WPA-Personal or WPA-EAP, click the drop-down menu to select a WPA mode [Options: Auto (WPA or WPA2), WPA2 Only, or WPA1 Only]. 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** When **Security** is **WPA-Personal** or **WPA-EAP**, click the drop-down menu to select **Auto**, **AES**, or **TKIP**.
 - **Group Key Update** Enter the interval during which the group key will be valid.

Interval

- **Encryption key** Select the means to define a unique encryption key for the defined cipher type.
 - **Manual:** Select the manual option to define the PassPhrase encryption key. The minimum and maximum number of characters is 8 to 63 ASCII characters and 64 characters in HEX. In the Confirm PassPhrase field enter the same key to confirm the setting.
 - **Periodical Key Change:** Select the option to have each client negotiate a very unique encryption key between the client and the access point.
 - Time Interval Enter the variable in hours to set the interval.
 - PassPhrase When Security is set to WPA-Personal, enter a pass phrase in the corresponding field.
- **Confirm PassPhrase** Retype the Pass Phrase entry to confirm the Pass Phrase.
 - **RADIUS Server** When **Security** is set to **WPA-EAP**, enter the IP address of the RADIUS server.
 - **Radius Port** Enter the RADIUS port.
 - **RADIUS Secret** Enter the RADIUS secret.
 - Accounting Mode Click the drop-down menu to enable or disable the accounting mode.
- Accounting Server Enter the IP address of the accounting server.

Accounting Port Enter the accounting port.

Accounting Secret Enter the accounting secret.

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

VLAN

VLAN List

The DAP-2620 supports VLANs. VLANs can be created with a Name and VID. Mgmt (TCP stack), LAN, Primary/Multiple SSID, and WDS connection can be assigned to VLANs as they are physical ports. Any packet which enters the DAP-2620 without a VLAN tag will have a VLAN tag inserted with a PVID. The VLAN List tab displays the current VLANs.

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

VLAN Status Displays the current VLAN status.

- Save Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.
- **VID** Displays the VID of the VLAN.
- **VLAN Name** Displays the name of the VLAN.
- **Untag VLAN Ports** Displays the untagged ports.
 - Tag VLAN Ports Displays the tagged ports.
 - **Edit** Click **Edit** to edit the current VLAN.
 - **Delete** Click **Delete** to delete the current VLAN.

VLAN Set	tings			
VLAN Status : VLAN Status : S VLAN List			Save PVID Setting	
VID VLAN Nam			g VLAN Ports	Edit Delete
1 default	(2.4G), S-1 S-3(2.4G), (2.4G), S-6 Primary(5G (5G), S-3(5	1, LAN2, Primary (2.4G), S-2(2.4G), S-4(2.4G), S-5 (2.4G), S-7(2.4G),), S-1(5G), S-2 G), S-4(5G), S-5 G), S-7(5G)		Edit Delete

Port List

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

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

VLAN Mode Displays the current VLAN mode.

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

Port Name Displays the name of the port.

- Tag VID Displays the tagged VID of the port.
- **Untag VID** Displays the untagged VID of the port.
 - **PVID** Displays the PVID of the port.

VLAN List	Port List	Add/Edit VLAN	PVID Setting	
Port Name	Tag VID	Lint:	ig VID	PVID
Mgmt		1	ig viD	1
LAN1		1		1
LAN2		1		1
Primary(2.4G)		1		1
Primary(5G)		1		1
S-1(2.4G)		- 1		1
S-2(2.4G)		1		1
S-3(2.4G)		1		1
S-4(2.4G)		1		1
S-5(2.4G)		1		1
S-6(2.4G)		1		1
S-7(2.4G)		1		1
S-1(5G)		1		1
S-2(5G)		1		1
S-3(5G)		1		1
S-4(5G)		1		1
S-5(5G)		1		1
S-6(5G)		1		1
S-7(5G)		1		1

Add / Edit VLAN

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

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

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

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

AN Status : 🖲 🛛	Disable	Enable				Save]			
AN Status : Stati VLAN List	c(2.4G), S Port List		dd/Edit '	VLAN	Р	VID Setti	ng			
VLAN ID (VID)		VLAN	Name		-		_			
Port	Select All	Mgmt	LAN1	LAN2						
Untag	All	٠	٠	٠						
Tag	All									
Not Member	All									
2.4GHz										
MSSID Port	Select All	Primary	S-1	S-2	S-3	S-4	S-5	S-6	S-7	
Untag	All	•	٠	٠	٠	٠	٠	٠	٠	
Tag	All									
Not Member	All									
5GHz										
MSSID Port	Select All	Primary	S-1	S-2	S-3	S-4	S-5	S-6	S-7	
Untag	All	۰	٠	٠	۰	۲	۲	٠	٠	
Tag	All									
Not Member	All									

PVID Settings

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

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

VLAN Mode Displays the current VLAN mode.

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

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

For better system consistency, the following are recommended:

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

VLAN List	Port List	Add/Edit V	/LAN	PVID Se	etting		
Status	ign 💿 Dis	sable 💛 Enat	ble				
Port		LAN1 LAN	2				
PVID 2.4GHz	1	1 1					
MSSID Port	Primary S	5-1 S-2	S-3	S-4	S-5	S-6	S-7
PVID		1 1	1	1	1	1	1
5GHz							
MSSID Port	Primary S	5-1 S-2	S-3	S-4	S-5	S-6	S-7
PVID		1 1	1	1	1	1	1
							Save

Intrusion

The Wireless Intrusion Protection window is used to classify APs as Valid, Neighborhood, Rogue, or a New group. Click **Save** for the changes to take effect.

- Wireless Band Click the drop-down menu to select the wireless band, 2.4GHz or 5GHz.
 - **Detect** Click **Detect** to initiate a scan of the network.
 - AP List Click the drop-down menu to select All, Valid, Neighborhood, Rogue, and New.

The following is a definition of the listed AP categories:

- Valid: An AP which is authenticated to the network with encryption is classified as valid.
- Neighborhood: A detected AP with a weak signal strength is classified as a suspect neighbor.
- Rogue: An AP that has been installed on the secure network with out explicit authorization.
- New: An alternative category.

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

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

Wireless Intrusion Protection	
Wireless Band 2.4GHz V Detect AP List All V	
Type Band CH SSID East Seen You can click Scan button to start.	Status
Set as Valid Set as Neighborhood Set as Rogue Set as New	
O Mark All New Access Points as Valid Access Points	
O Mark All New Access Points as Rogue Access Points	Save

Schedule

The Wireless Schedule Settings window is used to add and modify schedule rules on the device. Click **Save** for the changes to take effect.

- Wireless Schedule Click the drop-down menu to enable the device's schedule feature.
 - **Name** Enter a name for the new schedule rule in the field provided.
 - **SSID Index** Click the drop-down menu to select the desired SSID.
 - SSID Displays the current SSID. To create a new SSID, go to the Wireless Settings window (Basic Settings > Wireless).
 - Day(s) Click the radio button to select All Week and Select Day(s). If Select Day(s) 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.
 - **Overnight** Check this box to set an overnight schedule. Note, in an overnight schedule the Start Time designates the beginning period in the evening.
 - Save Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

Wireless Schedule Se	ettings
Wireless Schedule	Disable 🗸
Add Schedule Rule	
Name	
SSID Index	Primary SSID 2.4G 💙
SSID	dlink
Day(s)	◯ All Week ● Selects 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 List	
Name SSID SSID Index SSID	Day(s) Time Frame Wireless Edit DEL
+: To the end time of the next d	ay overnight.
	Save

Internal RADIUS Server

The DAP-2620 features a built-in RADIUS server. Once you have finished adding a RADIUS account, click **Save** to let your changes take effect. The newly-created account will appear in this 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 below 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 ~ 64.
 - Status Click the drop-down menu to enable the internal RADIUS server status.
 - Save Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

Internal RADIUS Serv	er			
RADIUS Accounts (Max: 25	56 users)			
User Name Password Status	Enable V	(4-16Characters) (6-32Characters)		
RADIUS Account list				
User Name No user entries	Enable	Disable	Delete	Save

ARP Spoofing Prevention

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

- ARP Spoofing Click the drop-down menu to enable the ARP Prevention spoofing prevention function. By default this feature is disabled.
- Gateway IP Address Enter a gateway IP address.
- Gateway MAC Address Enter a gateway MAC address.
 - Add Click to create a defined rule.
 - **Clear** Click to remove the settings from the menu interface.
 - **Delete All** Click to delete all gateway entries.
 - Edit Click to edit the selected gateway entry.
 - **Delete** Click to delete the gateway entry.
 - Save Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

ARP Spoofing	Prevention Settings	
ARP Spoofing Prevention	Disable 🗸	
Add Gateway Add	lress	
Gateway IP Address Gateway MAC Address	;;;;;;;;;	
Gateway Address I	List	
Total Entries: 0 Gateway IP Address		Delete All
Gatemay IF Address	Gateway MAC Address Edit	Delete
Gateway in Address	Gateway MAC Address Edit	Delete
	Gateway MAC Address Edit	
odems) ir Address	Gateway MAC Address Edit	
	Gateway MAC Address Edit	

Bandwidth Optimization

The Bandwidth Optimization window allows the user to manage the bandwidth of the device and arrange the bandwidth for wireless clients. After defining the Bandwidth Optimization rule, click **Add**. To discard the settings, click **Clear**. Click **Save** for the changes to take effect.

- Enable Bandwidth Click the drop-down menu to enable theOptimization Bandwidth Optimization function. By default this feature is disabled.
- **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 Click the drop-down menu to select a rule:

- Allocate average BW for each station: AP will distribute average bandwidth for each client.
- Allocate maximum BW for each station: Specify the maximum bandwidth for each connected client.
- Allocate different BW for 11a/b/g/n stations: The weight of 11b/g/n and 11a/n client are 10%/20%/70%; 20%/80%. The AP distributes different bandwidth for 11a/b/g/n clients.
- Allocate specific BW for SSID: All clients share the total bandwidth.
- **Band** Click the drop-down menu to select the wireless band, 2.4GHz or 5GHz.
- **SSID Index** Click the drop-down menu to select the SSID for the specified wireless band.
- **Downlink Speed** Enter the limitation of the download speed in either Kbits/sec or Mbits/sec for the rule.
 - **Uplink Speed** Enter the limitation of the upload speed in either Kbits/sec or Mbits/sec for the rule.
 - Add Click to create a defined rule.

Bandwidth Opt	imization
Enable Bandwidth Optimization	Disable V
Downlink Bandwidth	80 Mbits/sec
Uplink Bandwidth	80 Mbits/sec
Add Bandwidth O	timization Rule
Rule Type	Allocate average BW for each station
Band	2.4GHz V
SSID Index	Primary SSID V
Downlink Speed	Kbits/sec 🗸
Uplink Speed	Kbits/sec 🗸
	Add Clear
Bandwidth Optimi	zation Rules
Band Type	SSID Index Downlink Uplink Speed Edit Delete
	Save
	Jave

- **Clear** Click to remove the settings from the menu interface.
- Edit Click to edit the selected gateway entry.
- **Delete** Click to delete the gateway entry.
 - **Save** Click to save the updated configuration. To make the updates permanent, click **Configuration > Save and Activate**.

Captive Portal

Authentication Settings - Web Redirection Only

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

Session Timeout Enter the session timeout value (1-1440). (1-1440)

- **Band** Click the drop-down menu to select the wireless band, 2.4GHz or 5GHz.
- **SSID Index** Click the drop-down menu to select the SSID for this Authentication.
- Authentication TypeBy default the function is set to Disable.For this example, click the drop-down menu to
select Web Redirection Only.
- Web Redirection State When Authentication Type is Web Redirection Only, click the drop-down menu to enable web redirection state.
 - URL Path Click the drop-down menu to select http:// or https://, then enter the URL of the website that will be used in the space provided.
 - **IPIF Status** Click the drop-down menu to enable or disable the Captive Portal with its IP interface feature.

VLAN Group Enter the VLAN Group ID.

Captive Portal Authent	ication
Session Timeout (1-1440)	60 Minute(s)
Band	2.4GHz 🗸
SSID Index	Primary SSID V
Authentication Type	Web Redirection Only 🗸
Web Redirection Interface Setting	IS
Web Redirection State	Enable V
URL Path	http:// V
IP Interface Settings	
IPIF Status	Disable 🗸
VLAN Group	
Get IP From	Static IP (Manual) V
IP Address	
Subnet Mask	
Gateway	
DNS	
Band SSID Index	Captive Profile Edit Delete
Band SSID Index	

Get IP From Click the drop-down menu to select IP address setting mode.

- Static IP (Manual): 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-2620.
- **Dynamic IP (DHCP)**: The other fields 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.
- Edit Click to edit the selected entry.
- **Delete** Click to delete the selected entry.

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

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, user can view and configure the Captive Portal settings. After selecting Username/Password as the Authentication Type, we can configure the Username/Password authentication that will be applied to each wireless client in this network.

- Session Timeout Enter the session timeout value (1-1440). (1-1440)
 - **Band** Click the drop-down menu to select the wireless band, 2.4GHz or 5GHz.
 - **SSID Index** Click the drop-down menu to select the SSID for this Authentication.
- Authentication Type By default the function is set to Disable. For this example, click the drop-down menu to select Username/Password.
- Web Redirection State
 When Authentication Type is Username/

 Password, click the drop-down menu to enable web redirection state.
 - URL Path Click the drop-down menu to select http:// or https://, then enter the URL of the website that will be used in the space provided.
 - **IPIF Status** Click the drop-down menu to enable or disable the Captive Portal with its IP interface feature.
 - VLAN Group Enter the VLAN Group ID.
 - Get IP From Click the drop-down menu to select IP address setting mode.
 - Static IP (Manual): 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-2620.
 - Dynamic IP (DHCP): The other fields will be grayed out. Please allow about 2 minutes for the DHCP client to be functional once this selection is made.

Captive Portal Auther	ntication	
Session Timeout (1-1440)	60 Minute(s)	^
Band	2.4GHz 🗸	
SSID Index	Primary SSID 🗸	
Authentication Type	Username/Password 🗸	
Web Redirection Interface Settin	ıgs	
Web Redirection State	Enable 🗸	
URL Path	http:// V	
IP Interface Settings		
IPIF Status	Disable 🗸	
VLAN Group		
Get IP From	Static IP (Manual) V	
IP Address		
Subnet Mask		
Gateway		
DNS		
Username/Password Settings		
Username		
Password		
	Add Clear	~

- 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.
 - **Password** Enter the password for the new account.
 - Add Click to create a defined rule.
 - **Clear** Click to remove the settings from the menu interface.
 - Edit Click to edit the selected entry.
 - **Delete** Click to delete the selected entry.
 - **Save** Click to save the updated configuration. To make the updates permanent, click **Configuration > Save and Activate**.

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 Enter the session timeout value (1-1440). (1-1440)
 - **Band** Click the drop-down menu to select the wireless band, 2.4GHz or 5GHz.
 - **SSID Index** Click the drop-down menu to select the SSID for this Authentication.
- Authentication Type By default the function is set to Disable. For this example, click the drop-down menu to select Passcode.
- Web Redirection State When Authentication Type is Passcode, click the drop-down menu to enable web redirection state.
 - URL Path Click the drop-down menu to select http:// or https://, then enter the URL of the website that will be used in the space provided.
 - **IPIF Status** Click the drop-down menu to enable or disable the Captive Portal with its IP interface feature.
 - VLAN Group Enter the VLAN Group ID.
 - Get IP From Click the drop-down menu to select IP address setting mode.
 - Static IP (Manual): 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-2620.
 - **Dynamic IP (DHCP)**: The other fields will be grayed out. Please allow about 2 minutes for the DHCP client to be functional once this selection is made.

Captive Portal Auther	itication	
Session Timeout (1-1440)	60 Minute(s)	^
Band	2.4GHz 🗸	
SSID Index	Primary SSID V	
Authentication Type	Passcode V	
Web Redirection Interface Settir	ngs	
Web Redirection State	Enable 🗸	
URL Path	http:// 🗸	
IP Interface Settings		
IPIF Status	Disable V	
VLAN Group		
Get IP From	Static IP (Manual)	
IP Address		
Subnet Mask		
Gateway		
DNS		
Passcode Settings		
Passcode Quantity		
Duration	Hour	
Last Active Time	Year 2015 V Month Jan V Day 1 V Hour 1:00 V	~

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 ticket that will be used.
 - **Duration** Enter the duration value, in hours, for this passcode.
 - Last Active Time Select the last active date for this passcode. 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.
 - Add Click to create a defined rule.
 - **Clear** Click to remove the settings from the menu interface.
 - Delete All Click to delete all passcode setting entries.
 - Edit Click to edit the selected entry.
 - **Delete** Click to delete the selected entry.
 - **Save** Click to save the updated configuration. To make the updates permanent, click **Configuration > Save and Activate**.

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, user 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 Enter the session timeout value (1-1440). (1-1440)
 - **Band** Click the drop-down menu to select the wireless band, 2.4GHz or 5GHz.
 - **SSID Index** Click the drop-down menu to select the SSID for this Authentication.
- Authentication Type By default the function is set to Disable. For this example, click the drop-down menu to select Remote RADIUS.
- Web Redirection State When Authentication Type is Remote RADIUS, click the drop-down menu to enable web redirection state.
 - URL Path Click the drop-down menu to select http:// or https://, then enter the URL of the website that will be used in the space provided.
 - **IPIF Status** Click the drop-down menu to enable or disable the Captive Portal with its IP interface feature.
 - VLAN Group Enter the VLAN Group ID.
 - Get IP From Click the drop-down menu to select IP address setting mode.
 - Static IP (Manual): 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-2620.
 - Dynamic IP (DHCP): The other fields will be grayed out. Please allow about 2 minutes for the DHCP client to be functional once this selection is made.

Captive Portal Auther	itication	
Session Timeout (1-1440) Band	60 Minute(s) 2.4GHz V	^
SSID Index Authentication Type	Primary SSID V Remote RADIUS	
Web Redirection Interface Settir Web Redirection State URL Path	Igs Enable V http:// V	
IP Interface Settings	mup.// •	
IPIF Status	Disable V	
VLAN Group		
Get IP From	Static IP (Manual) V	
IP Address		
Subnet Mask		
Gateway		
DNS		
Remote RADIUS Settings		
Radius Server Settings		
RADIUS Server	Radius Port 1812	
Shared Secret		~

- **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.
 - **Radius Port** Enter the RADIUS server's port number.
- Radius Secret Enter the RADIUS server's shared secret.
- **Remote RADIUS Type** Select the remote RADIUS server type. Currently, only SPAP will be used.
 - Edit Click to edit the selected entry.
 - **Delete** Click to delete the selected entry.
 - Save Click to save the updated configuration. To make the updates permanent, click **Configuration > Save and Activate**.

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 (1-1440). (1-1440)
 - **Band** Click the drop-down menu to select the wireless band, 2.4GHz or 5GHz.
 - **SSID Index** Click the drop-down menu to select the SSID for this Authentication.
- Authentication Type By default the function is set to Disable. For this example, click the drop-down menu to select LDAP.
- Web Redirection State When Authentication Type is LDAP, click the drop-down menu to enable web redirection state.
 - URL Path Click the drop-down menu to select http:// or https://, then enter the URL of the website that will be used in the space provided.
 - **IPIF Status** Click the drop-down menu to enable or disable the Captive Portal with its IP interface feature.
 - VLAN Group Enter the VLAN Group ID.
 - Get IP From Click the drop-down menu to select IP address setting mode.
 - **Static IP (Manual)**: 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-2620.
 - **Dynamic IP (DHCP)**: The other fields will be grayed out. Please allow about 2 minutes for the DHCP client to be functional once this selection is made.

Captive Portal Auther	ntication	
Session Timeout (1-1440)	60 Minute(s)	^
Band	2.4GHz 🗸	
SSID Index	Primary SSID V	
Authentication Type	LDAP V	
Web Redirection Interface Settir	ngs	
Web Redirection State	Enable 🗸	
URL Path	http:// V	
IP Interface Settings		
IPIF Status	Disable 🗸	
VLAN Group		
Get IP From	Static IP (Manual) V	
IP Address		
Subnet Mask		
Gateway		
DNS		
LDAP Settings		
Server		
Port	389	
Authenticate Mode	Simple 🗸	~

- 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.
 - **Port** Enter the LDAP server's port number.
- Authenticate Mode Click the drop-down menu to select the authentication mode.
 - Username Enter the LDAP server account's username.
 - **Password** Enter the LDAP server account's password.
 - Base DN Enter the administrator's domain name.
- Account Attribute Enter the LDAP account attribute string. This string will be used to search for clients.
 - Identity Enter the identity's full path string. Alternatively, check the **Auto Copy** to automatically add the generic full path of the web page in the identity field.
 - Edit Click to edit the selected entry.
 - **Delete** Click to delete the selected entry.
 - **Save** Click to save the updated configuration. To make the updates permanent, click **Configuration > Save and Activate**.

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 (1-1440). (1-1440)
 - **Band** Click the drop-down menu to select the wireless band, 2.4GHz or 5GHz.
 - **SSID Index** Click the drop-down menu to select the SSID for this authentication.
- Authentication Type By default the function is set to Disable. For this example, click the drop-down menu to select POP3.
- Web Redirection State When Authentication Type is POP3, click the drop-down menu to enable web redirection state.
 - URL Path Click the drop-down menu to select http:// or https://, then enter the URL of the website that will be used in the space provided.
 - **IPIF Status** Click the drop-down menu to enable or disable the Captive Portal with its IP interface feature.
 - VLAN Group Enter the VLAN Group ID.
 - Get IP From Click the drop-down menu to select IP address setting mode.
 - Static IP (Manual): 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-2620.
 - **Dynamic IP (DHCP)**: The other fields will be grayed out. Please allow about 2 minutes for the DHCP client to be functional once this selection is made.

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

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.

Port Enter the POP server's port number.

Connection Type Click the drop-down menu to select the connection type, options include: None or SSL/TLS.

Edit Click to edit the selected entry.

Delete Click to delete the selected entry.

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

Login Page Upload

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

- Upload Login Style from After you have a saved login style file, click file Browse.... Select the saved login style file and click Open and Upload to upload the login style file.
 - Login Page Style List Click the drop-down menu to select the wireless band and login style that will be used in each SSID here. Click **Download** to download the template file for the login page and click **Delete** to delete the template file.

Note: The Left space field indicates the available memory in Bytes on the device.

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

L	Login Page Upload										
Up	Upload Login Style From Local Hard Drive										
	Upload Login Style from file : Browse Upload										
Ih	e Left space	/42	2400	Byte(s	5)						
Log	gin Page Style List										
Wi	reless Band	2.4	1GHz	~							
ID	Style Name	Pri	S-1	S-2	S-3	S-4	S-5	S-6	S-7	Download D	el
1	pages_default.tar	۲	۰	۰	۰	۰	۰	۰	۰	Download	
2	pages_headerpic.tar	0								Download	
3	pages_license.tar	0								Download	
								ve			

MAC Bypass

The DAP-2620 features a wireless MAC Bypass mechanism that allows clients in a network to access the Internet without the need for Captive Portal authentication.

- Wireless Band Click the drop-down menu to select the wireless band, 2.4GHz or 5GHz.
 - **SSID Index** Click the drop-down menu to select the SSID for the MAC bypass.
- 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 the list. Highlight a MAC address and click **Delete** icon to remove it from the list.
- Upload MAC 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.
- Download MAC File To download MAC bypass list file, click Download and to save the MAC bypass list.
 - Save Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

MAC Bypass Settings	
Wireless Band SSID Index MAC Address	2.4GHz V Primary SSID V ; ; ; ; Add
ID MAC Address Upload MAC File	Delete
Upload File :	Browse Upload
Download MAC File	
Load MAC File to Local Hard Driver :	Download

DHCP Server

Dynamic Pool Settings

The DHCP address pool defines the range of the IP address that can be assigned to stations in the network. A Dynamic Pool allows wireless stations to receive an available IP with lease time control. If needed or required in the network, the DAP-2620 is capable of acting as a DHCP server.

Function Enable/DisableClick the drop-down menu to enable or disable
the DAP-2620 functions as a DHCP server. By
default this feature is disabled.
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.

- **IP Assigned From** Enter 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 Enter the subnet mask for the network. All devices in the network must have the same subnet mask to communicate.
 - **Gateway** Enter the IP address of the gateway on the network.
 - WINS Enter 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.

Dynamic Pool Settings	
DHCP Server Control	
Function Enable/Disable	Disabled V
Dynamic Pool Settings	
IP Assigned From IP Pool Range(1-254)	192.168.1.20 235
Subnet Mask	255.255.255.0
Gateway	
WINS	
DNS	
Domain Name	dlink-ap
Lease Time (60 - 31536000 sec)	604800
	Save

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

Domain Name Enter the domain name of the network, if applicable. (An example of a domain name is: www.dlink.com.)

Lease Time Enter the lease time that the period of time before the DHCP server will assign new IP addresses.

(60 - 31536000 sec)

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

Static Pool Settings

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	Click the drop-down menu to enable or disable the DAP-2620 functions as a DHCP server. By default this feature is disabled.
	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.
Host Name	Enter the name of the host entry. Spaces are not

- valid character options.
- Assigned IP Enter the IP address of the device requesting association.
- Assigned MAC Address Enter the MAC address of the device requesting association.
 - Subnet Mask Enter the subnet mask of the IP address specified in the "IP Assigned From" field.
 - **Gateway** Enter the gateway address for the wireless network.
 - WINS Enter 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** Enter the domain name for the network.
 - Save Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

Static Pool Setting	S
DHCP Server Control	
Function Enable/Disable	Disabled V
Static Pool Settings	
Host Name Assigned IP Assigned MAC Address Subnet Mask Gateway WINS DNS	
Domain Name Host Name	dlink-ap Save MAC Address IP Address Edit Delete

Current IP Mapping List

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

	These are IP address pools the DHCP server has assigned using the dynamic pool settings.
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.
	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.
Save	Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate .

Current IP Ma	apping List	_	
Current DHCP Dyna			
Host Name	Binding MAC Address	Assigned IP Address	Lease Time
Current DHCP Stati			
Host Name	Binding MAC Address	Assigned IP Address	

Filters

Wireless MAC ACL

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

Wireless Band Click the drop-down menu to select the wireless band, 2.4GHz or 5GHz.

- Access Control List Click the drop-down menu to select the access control list. By default this feature is disabled.
 - Select **Disable** to disable the filters function.
 - Select **Allow** to accept only those devices with MAC addresses in the Access Control List. All other devices not on the list will be rejected.
 - Select **Deny** to reject the devices with MAC addresses on the Access Control List. All other devices not on the list will be accepted.
 - **SSID Index** Click the drop-down menu to select the SSID for the specified wireless band.
 - **MAC Address** Enter each MAC address that you wish to include in your filter list, and click **Add**.
 - MAC Address List When a MAC address is entered, it is added to the following index. Highlight a listing and click **Delete** to remove it from the index.
 - **Current Client** Displays information about all the current **Information** connected stations.
 - **Upload File** To upload a ACL list file, click **Browse...** and navigate to the ACL list file saved on the computer, and then click **Upload**.
- Load ACL File to Local To download ACL list file, click Download and to Hard Drive save the ACL list.
 - Save Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

Wireless MAC ACL Set	ttings		
Wireless Band Access Control List	2.4GHz ∨ Disable ∨	Total: 512 Used: 0	
SSID Index	Primary SSID 🗸		
MAC Address		::: Add	
ID MAC Address		Delete	
Current Client Information			
MAC Address SSID		Signal (%)	Add
Upload ACL File			
Upload File :		Browse Upload	
Download ACL File			
Load ACL File to Local Hard Driver :	Download		
			Save

WLAN Partition

The page allows the user to configure a WLAN Partition.

Wireless Band Click the drop-down menu to select the wireless band, 2.4GHz or 5GHz.

Ethernet to WLAN Access Click the drop-down menu to enable or disable the Ethernet devices to communicate with wireless clients. When disabled, all data from the Ethernet to associated wireless devices will be blocked. Wireless devices can still send data to the Ethernet.

Internal Station Click the radio button to a specific mode. The Connection modes are defined as follows:

- **Enable:** Allows communication between wireless clients connected to the same SSID and wireless clients connected to different SSIDs configured on this access point.
- **Disable:** Disallows communication between wireless clients connected to the same SSID, while allowing communication between wireless clients configured on this access point which are connected to different SSIDs.
- **Guest:** Disallows communication between wireless clients configured on the access point even when connected to the same or different SSIDs.
- Save Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

WLAN Partition				
Wireless Band	2.4GHz 🗸	·		
Ethernet to WLAN Access	Enable 🗸	·		
Internal Station Connection				
Primary SSID	Enable	O Disable	◯ Guest mode	
Multi-SSID 1	Enable	O Disable	◯ Guest mode	
Multi-SSID 2	Enable	O Disable	◯ Guest mode	
Multi-SSID 3	Enable	O Disable	◯ Guest mode	
Multi-SSID 4	Enable	O Disable	◯ Guest mode	
Multi-SSID 5	Enable	O Disable	◯ Guest mode	
Multi-SSID 6	Enable	◯ Disable	◯ Guest mode	
Multi-SSID 7	Enable	O Disable	◯ Guest mode	

Save

IP Filter Settings

Enter the IP address or network address that will be used in the IP filter rule. In the following example, if the IP addresses 192.168.70.66 or 192.168.70.0 are entered, they would be inaccessible to wireless clients on the same network.

- Wireless Band Click the drop-down menu to select the wireless band, 2.4GHz or 5GHz.
 - **SSID Index** Click the drop-down menu to select the SSID for the IP filter..
 - **Filter State** Click the drop-down menu to enable or disable the filter state. By default this feature is disabled.
 - **IP Address** Enter the IP address or network address to apply the filter settings.
- Subnet Mask Enter the subnet mask of the IP address or networks address.
- IP Address List When an IP address is entered, it appears in the list.

Highlight a IP address and click **Delete** to remove it from the list.

- **Upload IP Filter File** To upload a IP filter list file, click **Browse...** and navigate to the IP filter list file saved on the computer, and then click **Upload**.
- **Download IP Filter File** To download IP Filter list file, click **Download** and to save the IP filter list.
 - Save Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

IP Filter Settings		
Wireless Band SSID Index Filter State IP Address Subnet Mask	2.4GHz V Primary SSID V Disable V	
ID IP Address Upload IP Filter File	Add Subnet Mask Delete	
Upload File :	Browse Upload	
Download IP Filter File		
Load IP Filter File to Local Hard Driver :	Download	
	S	ave

Traffic Control

Uplink/Downlink Settings

The uplink/downlink setting allows users to customize the downlink and uplink interfaces including 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 **Save** to let your changes take effect.

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

Downlink Bandwidth Enter the downlink bandwidth in Mbits per second.

Uplink Bandwidth Enter the uplink bandwidth in Mbits per second.

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

Uplink and Dow	nlink Settings	_	_	
Ethernet1	Downlink	Uplink		
Ethernet2	Downlink	Uplink		
2.4GHz	5GHz			
Downlink Interface				
Primary-ssid	Multi-ssid1	Multi-ssid2	Multi-ssid3	
Multi-ssid4	Multi-ssid5	Multi-ssid6	Multi-ssid7	
Uplink Interface				
Primary-ssid	Multi-ssid1	Multi-ssid2	Multi-ssid3	
Multi-ssid4	Multi-ssid5	Multi-ssid6	Multi-ssid7	
Downlink Bandwidth(1~ Uplink Bandwidth(1~86		Mbits/sec		Save

QoS

Quality of Service (QoS) enhances the experience of using a network by prioritizing the traffic of different applications. The DAP-2620 supports four priority levels. Once the desired QoS settings are finished, click **Save** to let your changes take effect. *Note: Bandwidth Optimization is disabled if QoS is enabled*.

Enable QoS	Check the box to allow QoS to prioritize traffic. By default this feature is disabled.
Downlink Bandwidth	Enter the downlink bandwidth in Mbits per second. This value is entered in the Uplink/ Downlink Settings window.
Uplink Bandwidth	Enter the uplink bandwidth in Mbits per second. This value is entered in the Uplink/Downlink Settings window.
	Click the drop-down menu to select the level of priority for the selected rule.
Web Traffic Priority	Click the drop-down menu to select the level of priority for the selected rule.
Mail Traffic Priority	Click the drop-down menu to select the level of priority for the selected rule.
Ftp Traffic Priority	Click the drop-down menu to select the level of priority for the selected rule.
	Click the drop-down menu to select the level of priority for the selected rule.
Other Traffic Priority	Click the drop-down menu to select the level of priority for the selected rule.
Save	Click to save the updated configuration. To make the updates permanent, click

Configuration > Save and Activate.

QoS		
Enable QoS		
Advanced QoS		
Downlink Bandwidth	100 Mbits/sec	
Uplink Bandwidth	100 Mbits/sec	
ACK/DHCP/ICMP/DNS Priority	Highest Priority V Limit 100 % Port 53,67,68,546,547	
Web Traffic Priority	Third Priority V Limit 100 % Port 80,443,3128,8080	
Mail Traffic Priority	Second Priority V Limit 100 % Port 25,110,465,995	
Ftp Traffic Priority	Low Priority V Limit 100 % Port 20,21	
User Defined-1 Priority	Highest Priority V Limit 100 % Port 0 - 0	
User Defined-2 Priority	Second Priority V Limit 100 % Port 0 - 0	
User Defined-3 Priority	Third Priority V Limit 100 % Port 0 - 0	
User Defined-4 Priority	Low Priority V Limit 100 % Port 0 - 0	
Other Traffic Priority	Low Priority V Limit 100 %	
		Save

Traffic Manager

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

Note: Bandwidth Optimization is disabled if QoS is enabled.

- Traffic Manager Click the drop-down menu to enable the traffic manager feature. By default this feature is disabled. Unlisted Clients Traffic Click the radio button to select Deny or Forward to determine how to deal with unlisted client traffic. **Downlink Bandwidth** Enter the downlink bandwidth in Mbits per second. This value is entered in the Uplink/ Downlink Settings window. **Uplink Bandwidth** Enter the uplink bandwidth in Mbits per second. This value is entered in the Uplink/Downlink Settings window. **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 Rules When a rule is entered, it is added to the
 - List following index. Click Edit or Delete to alter the current rule.
 - Save Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

Traffic Manage	r				
Traffic Manager Unlisted Clients Traffic Downlink Bandwidth Uplink Bandwidth	Disable ✓ ● Deny ○ Forward 100 Mbits/sec 100 Mbits/sec				
Add Traffic Manag	er Rule				
Name Client IP(optional) Client MAC(optional) Downlink Speed Uplink Speed	Mbits/sec Add Clear				
Traffic Manager Ru	ıles				
Name Client IP	Client MAC	Downlink Speed	Uplink Speed	Edit	Delete
					Save

Status

In the Status Section 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.

D-Link [®]			DA	P-2620
🔶 Home 🕺 Maintenand	ce 🔻 🚽 Configuration	🕶 👙 System 💋	🛛 Logout 🛛) Help
DAP-2620	System Information		_	
Basic Settings Advanced Settings	Model Name	DAP-2620		
E Status	Firmware Version	v1.00 19:33:32 2019/03/25		
Client Information	System Name	dap2620		
	Location			
	System Time	2019/05/17 16:18:20		
	Up Time Operation Mode (2.4GHz)	01:16:36 Access Point		
	Operation Mode (2.4GHz)	Access Point		
	MAC Address (2.4GHz)	00:AA:BB:CC:DD:10		
	MAC Address (5GHz)	00:AA:BB:CC:DD:18		
	IP Address	192.168.1.166		

Device Information

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

Ethernet MAC Address	Displays the Ethernet MAC address.
Wireless MAC Address (2.4GHz)	Displays the 2.4GHz wireless MAC address.
Wireless MAC Address (5GHz)	Displays the 5GHz wireless MAC address.
IP Address	Displays the assigned IP address.
Subnet Mask	Displays the assigned subnet mask.
Gateway	Displays the assigned gateway.
DNS	Displays the assigned DNS.
Network Name (SSID)	Displays the SSID of 2.4GHz network.
Channel	Displays the channel of 2.4GHz network.
Data Rate	Displays the date rate of 2.4GHz network.
Security	Displays the security of 2.4GHz network.
Network Name (SSID)	Displays the SSID of 5GHz network.
Channel	Displays the channel of 5GHz network.
Data Rate	Displays the date rate of 5GHz network.
Security	Displays the security of 5GHz network.
CPU Utilization	Displays the current CPU utilization.
Memory Utilization	Displays the current memory utilization.
Connection Status	Displays the current connection status.
Server IP	Displays the current server IP address.
Server Port	Displays the current server port.

Device Information		
	Firmware Version:v1.00	^
Ethernet MAC Address	00:AA:BB:CC:DD:10	
Wireless MAC Address(2.4GHz):	Primary: 00:AA:BB:CC:DD:10	
	SSID 1~7: 00:AA:BB:CC:DD:11~00:AA:BB:CC:DD:17	
Wireless MAC Address(5GHz):	Primary: 00:AA:BB:CC:DD:18	
	SSID 1~7: 00:AA:BB:CC:DD:19~00:AA:BB:CC:DD:1F	
Ethernet		
IP Address	192.168.1.166	
Subnet Mask	255.255.255.0	
Default Gateway	192.168.1.1	
DNS	192.168.1.201	
Wireless(2.4GHz)		
Network Name (SSID)	dlink	
Channel	Ch 7 + 11 (Auto)	
Data Rate	Best(Up to 300) Mbps	
Security	No Authentication / No Encryption	
Wireless(5GHz)		
Network Name (SSID)	dlink	
Channel	Ch 36 + 40 + 44 + 48 (Auto)	
Data Rate	Best(Up to 867) Mbps	~

Client Information

The page displays the associated clients SSID, MAC, band, authentication method, signal strength, and power saving mode for the DAP-2620 network.

- **SSID** Displays the associated clients SSID for the network.
- MAC Displays the associated clients MAC address for the network.
- **Band** Displays the associated clients band for the network.
- Authentication Displays the associated authentication method for the network.
 - **RSSI** Displays the associated clients RSSI for the network.
- **Power Saving Mode** Displays the associated clients power saving mode for the network.
 - **System Info** Displays the associated clients information for the network.

Client Inform	nation		_			
Client Information	n Station associa	ation (2.40	GHz): 0			
SSID	MAC	Band	Authentication	RSSI	Power Saving Mode	System Info
No wireless client						
Client Information	n Station associa	ation (5GF	łz): 0			
SSID	MAC	Band	Authentication	RSSI	Power Saving Mode	System Info
No wireless client						

WDS Information

The page displays the access points SSID, MAC, band, authentication method, signal strength, and status for the DAP-2620's Wireless Distribution System network.

Name Displays the AP SSID for the network.

MAC Displays the AP MAC address for the network.

- Authentication Displays the AP authentication method for the network.
 - **Signal** Displays the AP signal for the network.

Status Displays the AP status for the network.

WDS Informat	ion			_
WDS Information	Channel: 11			
Name M	AC	Authentication	Signal	Status
WDS Information	Channel: 36			
Name M	AC	Authentication	Signal	Status

Statistics

Ethernet

Displays wired interface network traffic information for LAN1 (Bottom) and LAN2 (Rear).

Transmitted Packet Count	Displays the transmitted packet count.
Transmitted Bytes Count	Displays the transmitted bytes count.
Dropped Packet Count	Displays the dropped packet count.
Received Packet Count	Displays the received packet count.
Received Bytes Count	Displays the received bytes count.
Dropped Packet Count	Displays the dropped packet count.
Refresh	Click Refresh to update the Ethernet traffic

statistics list.

Ethernet Traffic Statistics				
		Refresh		
LAN1	LAN2			
2877	22427			
313866	22246815			
0	0			
0	24220			
0	2398891			
0	0			
	LAN1 2877 313866 0 0 0	LAN1 LAN2 2877 22427 313866 22246815 0 0 0 0 24220 0 2398891		

WLAN Traffic Statistics

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

Transmitted Packet	Displays the transmitted packet count.
Count	

Transmitted Bytes Count Displays the transmitted bytes count.

Dropped Packet Count Displays the dropped packet count.

- Transmitted Retry Count Displays the transmitted retry count.
 - Received Packet Count Displays the received packet count.
 - **Received Bytes Count** Displays the received bytes count.
 - Dropped Packet Count Displays the dropped packet count.

Received CRC Count Displays the received CRC count.

- **Received Decryption** Displays the received decryption error count. Error Count
 - Received MIC Error Displays the received MIC error count. Count
- **Received PHY Error** Displays the received PHY error count. **Count**
 - **Refresh** Click **Refresh** to update the WLAN traffic statistics list.

WLAN Traffic Statistics	3		
			Refresh
	2.4GHz	5GHz	
Transmitted Count			
Transmitted Packet Count	0	0	
Transmitted Bytes Count	0	0	
Dropped Packet Count	2674	0	
Transmitted Retry Count	0	0	
Received Count			
Received Packet Count	0	0	
Received Bytes Count	0	0	
Dropped Packet Count	0	0	
Received CRC Count	27155	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: cold start AP, upgrading firmware, client associate and disassociate with AP, and web login. The web page holds up to 500 logs.

View Log Displays the AP's embedded memory holds logs, up to 500 logs.

First Page Click to display the home View Log page.

Last Page Click to display the last View Log page.

Previous Click to display the page occurring before in order.

Next Click to display the page occurring after in order.

Clear Click to remove all listings from the View Log page.

View Log		
First Page Last Page Previous Next Clear		
Page 1 of 1		
Date and Time	Message	
May 17 16:03:19	Web login success from IP=192.168.1.36 with HTTP	
May 17 15:41:09	Web login success from IP=192.168.1.36 with HTTP	
May 17 15:40:10	Web login success from IP=192.168.1.36 with HTTP	
May 17 15:28:57	Web login success from IP=192.168.1.29 with HTTP	
May 17 15:28:10	Web login success from IP=192.168.1.10 with HTTP	
May 17 15:02:19	Ethernet eth0 LINK DOWN	
May 17 15:02:18	Cold start	
May 17 15:02:16	5GHz, Initiate wireless successfully	
May 17 15:02:11	2.4GHz, Initiate wireless successfully	
May 17 15:02:00	Start with firmware version=v1.00	

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 it to log.

Log Server / IP Address Enter the IP address of the log server.

- Log Type Check the boxes to select the activity to log. There are three types: Sytem Activity, Attacks, and Notice.
- Log Server / IP Address Enter the EU directive Syslog Server IP address or Domain Name to use for the log settings.
 - **Email Notification** Check the box to enable sending email notification.
 - Outgoing mail server Click the drop-down menu to select the SMTP (SMTP) server type, options include: Internal, Gmail, Hotmail.
 - Authentication Check the box to enable the authentication of the email notification.
 - **SSL/TLS** Check the box to enable the SSL/TLS function.
 - From Email Address Enter the email address of the account you would like to send the log.
 - **To Email Address** Enter the email address of the account you would like to send the log.
 - **Email Server Address** Enter the IP address of the server you would like to send the log.
 - **SMTP Port** Enter the SMTP port of the email server.
 - Account Enter the user name of the of the listed email address.
 - **Password** Enter the password set for the email notification.
 - **Confirm Password** Retype the password entry to confirm the password.

Log Settings		
Log Settings		^
Log Server Settings		
Log Server / IP Address		
Log Type	System Activity	
	☑ Attacks	
	✓ Notice	
EU directive Syslog Server Setting	gs	
Log Server / IP Address		
Email Notification		
Email Notification		
Outgoing mail server (SMTP)	Internal V	
Authentication		
SSL/TLS		
From Email Address		
To Email Address		
Email Server Address		
SMTP Port		
Account		
Password		~

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

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

Maintenance

In the Maintenance Section 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 maintenance section in more detail.

D-Link [®]			DAP-2620
Home X Maintenand Administration Se DAP-2620 Firmware and SS	ettings SL Certification Upload rmation	🕶 👻 System 💋 Logout	t 🕐 Help
Basic Settings Time and Date Advanced Settings Status	Firmware Version System Name Location System Time Up Time Operation Mode (2.4GHz) Operation Mode (5GHz) MAC Address (2.4GHz) IP Address	DAP-2620 v1.00 19:33:32 2019/03/25 dap2620 2019/05/17 16:55:30 01:53:45 Access Point Access Point 00:AA:BB:CC:DD:10 00:AA:BB:CC:DD:18 192.168.1.166	

Administration Settings

The administrator or users with administration privilege can access the administration management interface.

After any setting modification, the updated configuration must be saved to the device through the Configuration function, otherwise, the settings will not be saved to the firmware.

Administration Settings
Limit Administrator 🗖
System Name Settings
Login Settings 🗖
Console Settings
Ping Control Settings
LED Settings
Country Settings
DDP Settings
Nuclias Connect Settings 📕
Save

Limit Administrator

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

- Limit Administrator Check the box and the enter the specific VLAN VLAN ID ID that the administrator will be allowed to log in from.
- **Limit Administrator IP** Check the box to enable the limit administrator IP address.
 - **IP Range** Enter the IP address range that the administrator will be allowed to log in from and then click **Add**.

Note: To save the new configuration settings to the firmware, click **Configuration** > **Save and Activate**, otherwise click **Discard Changes** to delete any setting change.

Limit Administrator 🗹	
Limit Administrator VLAN ID	Enable 0
Limit Administrator IP	Enable
IP Range	From To Add
Item From	To Delete

System Name Settings

System Name Enter the name of the device. The default name is D-Link dap2620.

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

MDNS Name Enter the name of the multicast DNS. The default name is dap2620.

Note: To save the new configuration settings to the firmware, click **Configuration** > **Save and Activate**, otherwise click **Discard Changes** to delete any setting change.

System Name Settings 🗹		
System Name	dap2620	
Location		
MDNS Name	dap2620	

Login Settings

Login Name Enter a user name.

- **New Password** Enter the new password. The password is casesensitive. "A" is a different character than "a." The length should be between 4 to 32 characters.
- **Confirm Password** Enter the new password a second time for confirmation purposes. Check the box to apply and update the password.

Note: To save the new configuration settings to the firmware, click **Configuration** > **Save and Activate**, otherwise click **Discard Changes** to delete any setting change.

Console Settings

Status Check the box to enable the console.

Console Protocol Click the radio button to select the type of protocol.

Timeout Click the drop-down menu to select the timeout.

Note: To save the new configuration settings to the firmware, click **Configuration** > **Save and Activate**, otherwise click **Discard Changes** to delete any setting change.

Ping Control Settings

Status Check the box to enable the ping control setting.

Note: To save the new configuration settings to the firmware, click

Configuration > **Save and Activate**, otherwise click **Discard Changes** to delete any setting change.

Login Settings 🗹		
Login Name	admin	
New Password	••••	(4-64Characters)
Confirm Password	••••	(Confirm) Apply New Password





LED Settings

LED Status Click the radio button to select the LED on or off.

Note: To save the new configuration settings to the firmware, click **Configuration** > **Save and Activate**, otherwise click **Discard Changes** to delete any setting change.

Country Settings

Country Settings 🗹

Select a Country

Select a Country Click the drop-down menu to select a country.

Note: To save the new configuration settings to the firmware, click **Configuration** > **Save and Activate**, otherwise click **Discard Changes** to delete any setting change.

Note: The function is region dependent.

DDP Control Settings

Status Check the box to enable the DDP control setting.

Note: To save the new configuration settings to the firmware, click **Configuration** > **Save and Activate**, otherwise click **Discard Changes** to delete any setting change.

Nuclias Connect Settings

The Nuclias Connect section is used to create a set of APs on the Internet to be organized into a single group in order to increase ease of management. Nuclias Connect and AP Array are mutually exclusive functions.

Enable Nuclias Connect Click the drop-down menu to enable or disable the Nuclias Connect.

Note: To save the new configuration settings to the firmware, click **Configuration** > **Save and Activate**, otherwise click **Discard Changes** to delete any setting change.



DDP Settings 🗹		
Status	Enable	

United States

 \sim

LED Settings 🗹		
LED Status	● On ○ Off	

Firmware and SSL Certification Upload

The 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.

	The current firmware version is displayed above the file location field. After the latest firmware is downloaded, click Browse to locate the new firmware. Once the file is selected, click Open and Upload to begin updating the firmware. Please don't turn the power off while upgrading.
Language Pack Upgrade	After you have downloaded a language pack to your local drive, click Browse . Select the language pack and click Open and Upload to complete the upgrade.
•	After you have downloaded a SSL certification to your local drive, click Browse Select the

certification and click **Open** and **Upload** to complete the upgrade.

Firmware and SSL Certification Upload			
Update Firmware From Local Ha	ard Drive		
Upload Firmware From File :	Firmware Version v1.00	Browse	Ipdate
Language Pack Upgrade			
Upload :		Browse U	Ipdate
Update SSL Certification From L	ocal Hard Drive		
Upload Certificate From File :		Browse	Ipdate
Upload Key From File :		Browse U	Ipdate

Configuration File

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

Upload Configuration	After you have a configuration file, click
File	Browse . Select the configuration file and click
	Open and Upload to update the configuration.

Download Configuration Click Download to save the current File configuration file to your local disk. Note that if you save one configuration file with the administrator's password now, after resetting your DAP-2620 and then updating to this saved configuration file, the password will be gone.

Upload Nuclias ConnectAfter you have a saved Nuclias Connect file, clickNetwork FileBrowse.... Select the saved Nuclias Connectfile and click Open and Upload to upload the
Nuclias Connect file.

Configuration File Uplo	ad and Download	
Upload Configuration File		
Upload File :		Browse Upload
Download Configuration File		
Load Settings to Local Hard Drive	Download	
Upload Nuclias Connect Network	File	
Upload File :		Browse Upload

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.
Enable NTP	Check the box 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	Click the drop-down menu to select your correct time zone.
Date And Time	Set the time for the AP or click Copy Your Computer's Time Settings to copy the time from the computer in use (Make sure that the computer's time is set correctly).
Enable Daylight Saving	Check the box to enable the daylight saving time settings.
Daylight Saving Offset	Click the drop-down menu to select the offsetting variable in minutes to adjust for daylight saving time.
Daylight Saving Dates	Click the drop-down menu to designate the start/end date and time for daylight saving time.
Save	Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate .

Time and Date	e Settings						
Time Configurati	0 n						^
Current Time	2019/05/17 16:5	7:51					
Automatic Time (Configuration						
Enable NTP							
NTP Server							
Time Zone	(GMT) Greenwich	h Mean Time	e : Dublin, Ec	linburgh, Lis	bon, London 🚿		
Set the Date and T	lime Manually	,					
Date And Time	Year 201 Hour 10	9 🗸 Mor			20 🗸		
	Copy Your Com	puter's Tim	e Settings				
Daylight Configu	ration						
Enable Daylight Saving	9 🗌						
Daylight Saving Offset	60 🗸			_			
Daylight Saving Dates	DST Start DST End	Month Mar V Nov V	3rd V 2nd V	Day Sun ∨ Sun ∨	3 am ∨ 3 am ∨	0 V	~

Configuration

Configuration allows the user to save and activate or discard the configurations done.

- Save and Activate: Click **Save and Activate** to have configuration changes you have made to be saved across a system reboot.
- Discard Changes: Click **Discard Changes** to discard the settings you have made.

	Maintenance	_	- Cor	nfiguration			System	Logout	DAP-	Help
DAP-2620		_	Save and Discard C	Activate			oyatem	Logour	- V	nop
Basic Settings Advanced Settings Status		Model	Name are Version			P-2620	2 2040/02/25			
			n Name			00 19:33:3 02620	2 2019/03/25			
		Locatio Systen			20-	19/05/17 16	8-55-20			
		Up Tin				53:45	0.00.30			
			ion Mode (2.40			cess Point				
			ion Mode (5GH			cess Point				
			ddress (2.4GH.			AA:BB:CC AA:BB:CC				
		IP Add			192	2.168.1.166	6			

System

The System page allows the user to restart the unit, perform a factory reset or clear the language pack settings.

- Restart the Device: Click **Restart** to restart the device.
- Restore to Factory Default Settings: Click **Restore** to have all configuration parameters reset to their factory default values. All changes that have been made will be lost, even if you have issued a save.
- Clear Language Pack: Click **Clear** to reset language to default settings.



Logout

Click **Logout** to allow the user to safely log out from the access point's web configuration. Click **The current browser connection will be disconnected if you click here** to logout.

🔶 Home 🏾 🌾 Maintena	nce 🔻	Con	figuration 🔻	S (1997)	System		Logout	0	Help
DAP-2620	Sy	stem Inform	ation			The	current bro	wser conne	ection wil
Basic Settings Advanced Settings	Mod	el Name	D	AP-2620					
± ‴ 🃁 Status	Firm	ware Version	v1	.00 19:33:3	2 2019/03/25				
	Syst	em Name	da	ip2620					
	Loca	tion							
	Syst	em Time	20	19/05/17 1	6:55:30				
	Up 1	ïme	01	:53:45					
	Ope	ration Mode (2.40	GHz) Ad	cess Point					
	Ope	ration Mode (5GH	lz) A	cess Point					
	MAG	Address (2.4GH	z) 00	AA:BB:CC	:DD:10				
	MAG	Address (5GHz)	00	AA:BB:CC	::DD:18				
	IP A	ddress	19	2.168.1.16	6				

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.

Basic Settings

Change the wireless settings on the device for an existing network or create a new network.

Wireless Band

This is the operating frequency band. This Access Point (AP), operates within 2 bands, 2.4GHz and 5GHz. 2.4GHz works best with legacy devices and suitable for longer ranges. Select 5GHz for least interference and better performance.

Mode

Select between Access Point, Wireless Distribution System (WDS) with AP, WDS and Wireless Client mode.

Network Name/Service Set Identifier (SSID)

The SSID factory default is "dlink". Change the SSID to connect to existing wireless networks or establish a new wireless network.

SSID Visibility

The SSID Visibility signal is enabled by default. Select Disable to make the Access Point invisible to all client devices.

Auto Channel Selection

Enabled by default, when the device boots up, to automatically search for the best available channel.

Channel

Auto Channel Selection is set as default. Settings for the channel can be configured to work with existing wireless networks or customized a new wireless network.

Channel Width

Setup the Channel bandwidths. Use 20MHz and Auto 20/40MHz for 802.11n and non-802.11n wireless devices. Connect Mixed 802.11b/g/n for 2.4GHz and Mixed 802.11a/n for 5GHz. Configure Auto 20/40/80 MHz for 802.11ac and non 802.11ac wireless devices, and Mixed 802.11ac for 5GHz. When using Auto 20/40 MHz channel settings data can be transmitted using 40MHz and when using Auto 20/40/80MHz data can be transmitted using 80MHz.

Knowledge Base

Wireless Basics

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

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

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

People use WLAN technology for many different purposes:

- **Mobility** productivity increases when people can have access to data in any location within the operating range of their WLAN. Management decisions based on real-time information can significantly improve the efficiency of a worker.
- Low implementation costs WLANs are easy to set up, manage, change and relocate. Networks that frequently change can benefit from WLAN's ease of implementation. WLANs can operate in locations where installation of wiring may be impractical.
- Installation and network expansion by avoiding the complications of troublesome cables, a WLAN system can be fast and easy during installation, especially since it can eliminate the need to pull cable through walls and ceilings. Wireless technology provides more versatility by extending the network beyond the home or office.
- Inexpensive solution wireless network devices are as competitively priced as conventional Ethernet network devices. The DAP-2620 saves money by providing users with multi-functionality configurable in four different modes.
- Scalability Configurations can be easily changed and range from Peer-to-Peer networks, suitable for a small number of users to larger Infrastructure networks to accommodate hundreds or thousands of users, depending on the number of wireless devices deployed.

Wireless Installation Considerations

The D-Link Access Point lets you access your network using a wireless connection from virtually anywhere within the operating range of your wireless network. Keep in mind, however, that the number, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through, may limit the range. Typical ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or business. The key to maximizing wireless range is to follow these basic guidelines:

- 1. Keep the number of walls and ceilings between the access point and other network devices to a minimum. Each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.
- 2. Be aware of the direct line between network devices. A wall that is 1.5 feet thick (0.5 meters).
- 3. 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle it looks over 42 feet (14 meters) thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
- 4. Building Materials make a difference. A solid metal door or aluminum studs may have a negative effect on the range. Try to position access points, wireless routers, and computers so that the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (fish tanks), mirrors, file cabinets, brick, and concrete will degrade your wireless signal.
- 5. Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate RF noise.
- 6. If you are using 2.4GHz cordless phones or X-10 (wireless products such as ceiling fans, lights, and home security systems), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone in not in use.

Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DAP-2620. Read the following descriptions if you are having problems. (The examples below are illustrated in Windows[®] XP. If you have a different operating system, the screenshots on your computer will look similar to the following examples.)

Why can't I access the web-based configuration utility?

When entering the IP address of the D-Link access point (192.168.0.50 for example), you are not connecting to a website on the Internet or have to be connected to the Internet. The device has the utility built-in to a ROM chip in the device itself. Your computer must be on the same IP subnet to connect to the web-based utility.

- Make sure you have an updated Java-enabled web browser. We recommend the following:
 - Internet Explorer 7.0 or higher, Chrome, Firefox, or Safari 4 or higher
- Verify physical connectivity by checking for solid link lights on the device. If you do not get a solid link light, try using a different cable or connect to a different port on the device if possible. If the computer is turned off, the link light may not be on.
- Disable any internet security software running on the computer. Software firewalls such as Zone Alarm, Black Ice, Sygate, Norton Personal Firewall, and Windows[®] firewall may block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it.
- Configure your Internet settings:

Go to **Start** > **Settings** > **Control Panel**. Double-click **Internet Options** icon. From the **Security** tab, click the button to restore the settings to their defaults.

Click **Connection** tab and set the dial-up option to Never Dial a Connection. Click **LAN Settings**. Make sure nothing is checked. Click **OK**. Go to the **Advanced** tab and click the button to restore these settings to their defaults. Click **OK** three times.

Close your web browser (if open) and open it.

- Access the web management. Open your web browser and enter the IP address of your D-Link access point in the address bar. This should open the login page for your the web management.
- If you still cannot access the configuration, unplug the power to the access point for 10 seconds and plug back in. Wait about 30 seconds and try accessing the configuration. If you have multiple computers, try connecting using a different computer.

What can I do if I forgot my password?

If you forgot your password, you must reset your access point. Unfortunately, this process will change all your settings back to the factory defaults.

To reset the access point, locate the reset button (hole) on the rear panel of the unit. With the access point powered on, use a paperclip to hold the button down for 10 seconds. Release the button and the access point will go through its reboot process. Wait about 30 seconds to access the access point. The default IP address is 192.168.0.50. When logging in, the username is admin and leave the password box empty.

How to check your IP address?

After you install your network adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

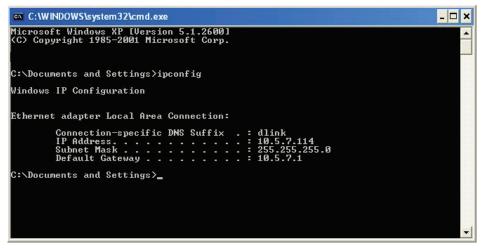
1. Click on Start > Run. In the run box type cmd and click OK.

2. At the prompt, type ipconfig and press Enter.

This will display the IP address, subnet mask, and the default gateway of your adapter.

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your router. Some firewall software programs may block a DHCP request on newly installed adapters.

If you are connecting to a wireless network at a hotspot (e.g. hotel, coffee shop, airport), please contact an employee or administrator to verify their wireless network settings.



How do I assign a static IP address?

If you are not using a DHCP capable gateway/router, or you need to assign a static IP address, please follow the steps below:

- 1. Windows[®] 2000: Click on Start > Settings > Control Panel > Network Connections.
 - Windows XP: Click on Start > Control Panel > Network Connections.

Windows Vista[®]: Click on Start > Control Panel > Network and Internet > Network and Sharing Center > Manage network connections.

- 2. Right-click on the Local Area Connection which represents your network adapter and select Properties.
- 3. Highlight Internet Protocol (TCP/IP) and click Properties.
- 4. Click Use the following IP address and enter an IP address that is on the same subnet as your network or the LAN IP address on your router. Example: If the router's LAN IP address is 192.168.0.1, make your IP address 192.168.0.X where X is a number between 2 and 99. Make sure that the number you choose is not in use on the network. Set Default Gateway the same as the LAN IP address of your router (192.168.0.1). Set Primary DNS the same as the LAN IP address of your router (192.168.0.1). The Secondary DNS is not needed or you may enter a DNS server from your ISP.
- 5. Click **OK** twice to save your settings.

eneral	automatically if your network supports
	adiomatically if your network administrator for
🔘 Obtain an IP address automa	atically
 Output the following IP address 	¢
IP address:	192.168.0.52
Subnet mask	255 . 255 . 255 . 0
Default gateway:	192.168.0.1
 O Obtain DN5 server address. 	automatically
✓ ● Use the following DNS server	er addresses:
Preferred DN3 server:	192.168.0.1
Alternate DNS server:	
	Advanced

Technical Specifications

Standards • IEEE 802.11a/b/g/n/ac

• IEEE 802.3i/u/ab

Network Management • Telnet

- Teinet
- Web (HTTP)
- Secure Socket Layer (SSL)
- Traffic control
- D-Link Nuclias Connect
- **Security** WPA[™] Personal/Enterprise
 - WPA2[™] Personal/Enterprise
 - WEP[™] 64/128-bit encryption
 - SSID broadcast disable
 - MAC address access control
 - Internal RADIUS server

Wireless Frequency Range 2.4 to 2.4835 GHz and 5.15 to 5.85 GHz

Antenna Type Two Dual Dand Internal Antennas (2.4 GHz 2 dBi & 5 GHz 2 dBi)

- **Temperature** Operating: 0°C to 40°C (32°F to 104°F)
 - Storing: -20°C to 65°C (-4°F to 149)
 - Humidity Operating: 10%~90% (non-condensing)
 - Storing: 5%~95% (non-condensing)
- **Certifications** FCC
 - CE
- Dimensions (L x W x H) 153.5 x 94.65 x 35.8 mm (6.04 x 3.73 x 1.41 in)
 - Weight 212 g (0.47 lbs) without mounting bracket
 - 250.9 g (0.55 lbs) with mounting bracket

Antenna Pattern

