





Nuclias Connect AX3000 Access Point

DAP-X3060

Table of Contents

Nuclias Connect	.4
Introduction	4
Nuclias Connect Key Features	5
Package Contents	
System Requirements	
Hardware Overview	.7
LEDs	7
Connections	7
Basic Installation	.8
Hardware Setup	8
Configure the access point	.8
Setup Wizard	.9
Setup Wizard Web User Interface	
-	10
Web User Interface	10 11
Web User Interface Wireless	10 11 11
Web User Interface Wireless Access Point Mode	10 11 11 13
Web User Interface Wireless Access Point Mode WDS with AP Mode	10 11 11 13 15
Web User Interface Wireless Access Point Mode WDS with AP Mode WDS Mode	10 11 11 13 15 17
Web User Interface Wireless Access Point Mode WDS with AP Mode WDS Mode Wireless Security	10 11 13 15 17 17
Web User Interface Wireless Access Point Mode WDS with AP Mode WDS Mode Wireless Security Wireless Security	10 11 13 15 17 17
Web User Interface Wireless Access Point Mode WDS with AP Mode WDS Mode Wireless Security Wireless Security Wired Equivalent Privacy (WEP) Wi-Fi Protected Access (WPA / WPA2 / WPA3)	10 11 13 15 17 17 18 20
Web User Interface Wireless Access Point Mode WDS with AP Mode WDS Mode Wireless Security Wireless Security Wired Equivalent Privacy (WEP) Wi-Fi Protected Access (WPA / WPA2 / WPA3) LAN	10 11 13 15 17 17 18 20 21
Web User Interface Wireless Access Point Mode WDS with AP Mode WDS Mode Wireless Security Wireless Security Wired Equivalent Privacy (WEP) Wi-Fi Protected Access (WPA / WPA2 / WPA3) LAN IPv6	10 11 13 15 17 17 18 20 21 22

Multi-SSID27
VLAN
VLAN List29
Port List
Add/Edit VLAN
PVID Settings32
Intrusion
Schedule
Internal RADIUS Server35
ARP Spoofing Prevention
Bandwidth Optimization37
Captive Portal
Authentication Settings-Web Redirection Only 39
Authentication Settings- Username/Password41
Authentication Settings- Passcode43
Authentication Settings- Remote RADIUS46
Authentication Settings- LDAP48
Authentication Settings- POP350
Login Page Upload52
MAC Bypass53
DHCP Server54
Dynamic Pool Settings54
Static Pool Setting55
Current IP Mapping List57
Filters
Wireless MAC ACL58

WLAN Partition	59
IP Filter Settings	60
Traffic Control	61
Uplink/Downlink Setting	61
QoS	62
Traffic Manager	63
Status	64
Device Information	65
Client Information	66
WDS Information Page	67
Channel Analyze	68
Statistics	69
Ethernet Traffic Statistics	69
WLAN Traffic Statistics	70
Log	71
Log View Log	
5	71
View Log	71 72
View Log Log Settings	71 72 74
View Log Log Settings Maintenance Section	71 72 74 75
View Log Log Settings Maintenance Section Administration	71 72 74 75 75
View Log Log Settings Maintenance Section Administration Limit Administrator	71 72 74 75 75 76
View Log Log Settings Maintenance Section Administration Limit Administrator System Name Settings	71 72 74 75 75 76 76
View Log Log Settings Maintenance Section Administration Limit Administrator System Name Settings Login Settings	71 72 74 75 75 76 76 76
View Log Log Settings Maintenance Section Administration Limit Administrator System Name Settings Login Settings Console Settings	71 72 74 75 75 76 76 76 77
View Log Log Settings Maintenance Section Administration Limit Administrator System Name Settings Login Settings Console Settings Ping Control Setting	71 72 74 75 75 76 76 76 77 77
View Log Log Settings Maintenance Section Administration Limit Administrator System Name Settings Login Settings Console Settings Ping Control Setting LED Settings	71 72 74 75 75 76 76 76 77 77 77
View Log Log Settings Maintenance Section Administration Limit Administrator System Name Settings Login Settings Console Settings Ping Control Setting LED Settings DDP Setting	71 72 74 75 75 76 76 76 77 77 77 77

Configuration File Upload	80
Time and Date Settings	81
Configuration and System	82
System Settings	83
Help	
Technical Specifications	85
Antenna Pattern	86
Regulatory Statements	

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 settings 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 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
- 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 the DAP-X3060, please refer to the Nuclias Connect User Guide.

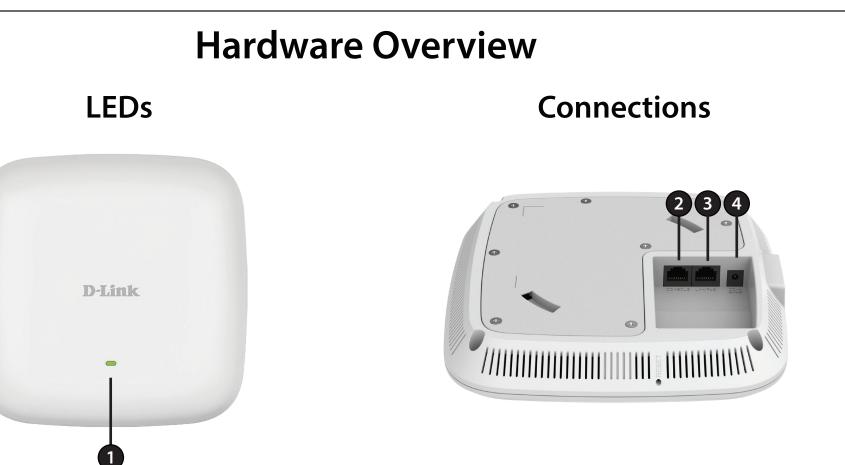
Package Contents

- DAP-X3060 Nuclias Connect AX3000 Access Point
- Mounting Brackets
- Ceiling Brackets
- Quick Start Guide

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

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)



		Solid Red	Indicates the access point has malfunctioned.
1	Power/Status	Blinking Red	This LED will blink during boot-up.
		Solid Green	Indicates that the DAP-X3060 is working properly.

2	Console Port	RJ45 console port for debug
3	LAN (PoE) Port	Connect to a Power over Ethernet (PoE) switch or router via an Ethernet cable.
4	Power Receptor	Connect the supplied power adapter. (*Note: no longer used, replaced by PoE)

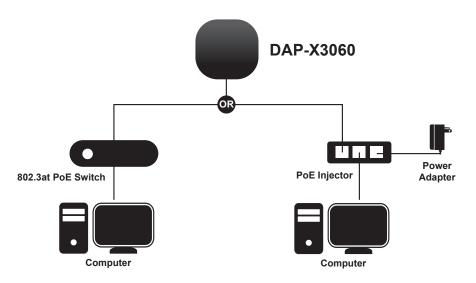
Basic Installation Hardware Setup

To power on the DAP-X3060, you can use ONE of the following methods:

1. Plug one end of your Ethernet cable into the LAN (PoE) port of the DAP-X3060, and the other end into a port on a 802.3 at PoE switch.

2. Purchase a DPE-301GI PoE injector separately if you need to connect the access point without a 802.3at PoE Switch.

Configure the access point



To set up and manage the DAP-X3060, 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 *dapx3060.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. Connect the access point and your computer via DPE-301GI PoE injector. Manage the access point from the computer. Enter *dapx3060.local* in the address field of your browser.

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

Username: admin

Password: admin

Setup Wizard

The first login instance displays the System Settings window which requires a change in password. Additional settings include the System Time and System Country functions.

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

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

- Setting NTP System Time: Before trying to configure NTP check, perform a ping test with the NTP server. In the NTP Server field, enter the NTP server to use. Then click the Time Zone drop-down menu and select the appropriate time zone.
- Setting System Time Manually: From the System Date drop-down menu, select the Year, Month, and Day along with the Hour and Minutes appropriate for the AP.
- Enable Daylight Saving: Click the radio button to enable the daylight savings time (DST) function. Set the DST start (24 hours) and end (24 hours) time by clicking on the drop-down menus and setting the Month, Week, Day, Hour, and Minute of the DST starting days.

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

Provide System Settings .	
These settings apply to this a	ccess point.
New Password	
Confirm New Password	
System Time	 Using Network Time Protocol(NTP) Manually
System Date	2021 Aug 🗸 17 🗸
System Time(24 HR)	17 🗸 : 28 🗸
Enable Daylight Saving	
DST Start(24 HR)	1st 🗸 Sun 💙 in Jan 💙 at 0 💙 0 💙
DST End(24 HR)	1st 🗸 Sun 💙 in Jan 💙 at 0 💙 0 💙
Daylight Offset(minutes)	15 🗸
System Country	System Country V

Web User Interface

The DAP-X3060 supports an elaborate web user interface where the user can configure and monitor the device. Launch a web browser, type *dapx3060.local* in the address field and then press Enter to login. Most of the configurable settings are located in the left menu of the web GUI which contains sections called **Basic Settings**, **Advanced Settings** and **Status**.

D-Link				DAP-X3060
🏠 Home 🌱 I	Maintena	ince 🔻 🗧 Configu	uration 🔻 👙 System 🗾 Logout	🕐 Help
DAP-X3060		System Informat	tion	
Advanced Settings		Model Name	DAP-X3060	
🗄 📁 Status		Firmware Version	v1.00 Tue Oct 3 17:25:51 CST 2023	
		System Name	dapx3060	
		Location		
		System Time	10/27/2023 18:09:35	
		Up Time	0 Days, 00:33:48	
		Operation Mode(2.4GHz)	Access Point	
		Operation Mode(5GHz)	Access Point	
		MAC Address(2.4GHz)	3c:33:32:9b:f7:10	
		MAC Address(5GHz)	3c:33:32:9b:f7:18	
		IP Address	192.168.0.101	

Wireless

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

Access Point - Used to create a wireless LAN

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

WDS - Used to connect multiple wireless networks

Access Point Mode

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

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

Mode: Select Access Point from the drop-down menu.

- Network Name (SSID): Service Set Identifier (SSID) is the name designated for a specific wireless local area network (WLAN). The SSID's factory default setting is **dlink**. The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network. The SSID can be up to 32 characters and is case-sensitive.
 - SSID Visibility: Select **Enable** to broadcast the SSID across the network, thus making it visible to all network users. Select **Disable** to hide the SSID from the network.

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



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

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

- Channel Width: Allows you to select the channel width you would like to operate in 2.4GHz and 5GHz. Use the drop-down menu to choose 20 MHz or Auto 20/40 MHz or Auto 20/40/80 MHz.
- Authentication: Use the drop-down menu to choose Open System, Enhanced Open, Enhanced Open, WPA-Personal, WPA-Enterprise, or 802.1x.
 - Select Open System, Enhanced Open, Enhanced Open or Open, to communicate the key across the network (WEP).
 - Select WPA-Personal to secure your network using a password and dynamic key changes. No RADIUS server is required.
 - Select **WPA-Enterprise** to secure your network with the inclusion of a RADIUS server.
 - Select **802.1X** if your network is using port-based Network Access Control.
 - **Note:** 1. The default Open System authentication allows wireless connection without requiring user authentication. It is highly recommended that you encrypt your network using one of the security methods other than the default setting.

2. Two SSIDs will be occupied when using Enhanced Open + Open

WDS with AP Mode

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

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

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

Auto Channel Selection: Enabling this feature automatically selects the channel that will provide the best wireless performance. This feature is not supported in WDS with AP mode. The channel selection process only occurs when the AP is booting up.

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

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

Channel Width: Allows you to select the channel width you would like to operate in 2.4GHz and 5GHz. Use the dropdown menu to choose 20 MHz or Auto 20/40 MHz or Auto 20/40/80 MHz.



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 on the Scan button to search for available wireless networks, then click on the available network that you want to connect with.

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

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

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

WDS Mode

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

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

- Network Name (SSID): Service Set Identifier (SSID) is the name designated for a specific wireless local area network (WLAN). The SSID's factory default setting is **dlink**. The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network.
- Auto Channel Selection: Enabling this feature automatically selects the channel that will provide the best wireless performance. This feature is not supported in WDS mode.
 - **Channel:** All devices on the network must share the same channel. To change the channel, use the drop-down menu to make the desired selection.
 - Channel Width: Allows you to select the channel width you would like to operate in 2.4GHz and 5GHz. Use the dropdown menu to choose 20 MHz or Auto 20/40 MHz or Auto 20/40/80 MHz.
 - 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 on the Scan button to search for available wireless networks, then click on the available network that you want to connect with.

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

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

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

Wireless Security

Wireless security is a key concern for any wireless network. Unlike any other networking methods, wireless networks 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 WPA3 standard, wireless networks have finally reach a point where the security is strong enough to give users peace of mind when installing wireless networks.

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

Wired Equivalent Privacy (WEP)

WEP 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.

Wireless Band 2.4 GHz 🗸 Use the radio button to disable or enable **Encryption:** Mode Access Point V encryption. Network Name (SSID) dlink SSID Visibility Key Type: Select HEX** or ASCII*. Enable V Auto Channel Selection Enable V Channel Key Size: Select 64 Bits or 128 Bits. 6 V Channel Width 20 MHz × Key Index (1-4): Select the 1st through the 4th key to be Authentication Open System × the active key. Key Settings Encryption Disable **Enable** Key Type HEX 🗸 Kev Size 64 Bits 🗸 Key: Input up to four keys for encryption. You Key Index(1~4) 1 ¥ will select one of these keys in the Key Network Key Index drop-down menu. Confirm Kev **Hexadecimal (HEX) digits consist of the numbers 0-9 and the letters A-F. (0-9,a-z,A-Z,~!@#\$%^&*()_+`-={}[];"\:"|,./<>?) *ASCII (American Standard Code for Information Interchange) is a code that represents English letters using numbers ranging from 0-127. Save

Wireless Settings

Wi-Fi Protected Access (WPA / WPA2 / WPA3)

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

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

Comparing WPA-PSK with WPA-EAP, WPA-PSK is seen as a weaker authentication but comparing WPA-PSK to WEP, WPA-PSK is far more secure than WEP. WPA-EAP is the highest level of wireless security a user can use for wireless today.

WPA2/WPA3 are upgrades of WPA. WPA2/WPA3 yet again solves some possible security issues found in WPA. WPA2/WPA3 have two variations called WPA2/WPA3-Personal (PSK) and WPA2/WPA3-Enterprise (EAP) which are the same as found with WPA.

- WPA Mode: When WPA-Personal is selected for Authentication type, you must also select a WPA mode from the drop-down menu: AUTO (WPA or WPA2), WPA2 or WPA3, WPA2 Only or WPA3 Only.
- **Cipher Type:** When you select WPA-Personal, you must also select AUTO, AES, or TKIP from the drop-down menu.
- **Group Key Update:** Select the interval during which the group key will be valid. The default value of 3600 is recommended.
 - Pass Phrase: When you select WPA-Personal, enter a Pass Phrase in the corresponding field.

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

Section 3 - Configuration

WPA Mode:	When WPA-Enterprise is selected, you must also	Wireless Settings	
	select a WPA mode from the drop-down menu:		
	AUTO (WPA or WPA2) or WPA2 Only or WPA3 only.	Wireless Band	2.4 GHz 🗸
		Mode	Access Point 🗸
Cipher Type:	When WPA-Enterprise is selected, you must also	Network Name (SSID)	dlink
	select a cipher type from the drop-down menu:	SSID Visibility	Enable 🗸
	Auto, AES, or TKIP.	Auto Channel Selection	Enable 🗸
		Channel	6 🗸
	Select the interval during which the group key	Channel Width	20 MHz 🗸
Interval:	will be valid. 3600 is the recommended value as	Authentication	WPA-Enterprise 🗸
	a lower interval may reduce data transfer rates.	RADIUS Server Settings	
		WPA Mode	AUTO (WPA or WPA2) V
RADIUS Server:	Enter the IP address of the RADIUS server to be	Cipher Type	Auto V Group Key Update Interval 3600 (Sec)
	used in authenticate.	RADIUS Server Mode	
		RADIUS Server	External OInternal
RADIUS Port:	Enter the RADIUS port.	Primary RADIUS Server	
		RADIUS Server	RADIUS Port 1812
RADIUS Secret:	Enter the shared secret to be used between the	RADIUS Secret	(0-9,a-z,A-Z,~!@#\$%^&*()_+`-={}[];'\:" ,./<>?)
	radius server and the DAP to authenticate.	Backup RADIUS Server	
		RADIUS Server	RADIUS Port 1812
Accounting Mode:	Click the drop-down menu to enable or disable	RADIUS Secret	
	the accounting mode.		(0-9,a-z,A-Z,~!@#\$%^&*()_+`-={}[];'\:" ,./<>?)
		Primary Accounting Ser	ver Setting
Accounting Server:	Enter the IP address of the accounting server.	Accounting Mode	Disable 🗸
		Accounting Server	Accounting Port 1813
Accounting Port:	Enter the accounting port.	Accounting Secret	
		De aluce A secondine Com	(0-9,a-z,A-Z,~!@#\$%^&*()_+`-={}[];'\:" ,./<>?)
Accounting Secret:	Enter the accounting secret.	Backup Accounting Server	Accounting Port 1813
		Accounting Secret	Accounting Fort 1015
Save:	Save the updated configuration. Click	Accounting Secret	(0-9,a-z,A-Z,~!@#\$%^&*() +`-={}[];'\:" ,./<>?)
	Configuration > Save and Activate to make		
	changes permanent.		Save
	l		

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-X3060. These settings may be referred to as private settings. You may change the LAN IP address if needed. The LAN IP address is private to your internal network and cannot be seen on the Internet.

- Get IP From: Dynamic IP (DHCP) is chosen here. Choose this option if you have a DHCP server in your network, or if you wish to assign a static IP address to the DAP-X3060. When Dynamic IP (DHCP) is selected, the other fields here will be grayed out. Please allow about 2 minutes for the DHCP client to be functional once this selection is made.
- **IP Address:** Assign a static IP address that is within the IP address range of your network.
- Subnet Mask: Enter the subnet mask. All devices in the network must share the same subnet mask.
- **Default Gateway:** Enter the IP address of the gateway/router in your network.
 - **DNS:** Enter a DNS server IP address. This is usually the local IP address of your gateway/router.

LAN Settings		
Get IP From	Dynamic IP (DHCP) 🗸	
IP Address	192.168.0.100	
Subnet Mask	255.255.255.0	
Default Gateway	192.168.0.1	
DNS	192.168.0.1	
		Save

IPv6

Enable IPv6: Check to enable IPv6

Get IP From: Dynamic IP is chosen here. Choose this option the DAP-X3060 can get IPv6 address automatically or use Static to set IPv6 address manually. When **Auto** is selected, the other fields here will be grayed out.

IPv6 Address: Enter the LAN IPv6 address used here.

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

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

IPv6 Settings		
Enable IPv6 Get IP From	Auto 🗸	
IP Address		
Prefix	0	
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.

D-Link [®]			DAP-X3060
🛕 Home 🤺 Mainter	iance 🔻 🚦 Configu	uration 🔻 👙 System 💋 Logout	🕐 Help
DAP-X3060	System Informat	ion	
Wireless	Model Name	DAP-X3060	
	Firmware Version	v1.00 Tue Oct 3 17:25:51 CST 2023	
	System Name	dapx3060	
Advanced Settings	Location		
🕂 📁 Status	System Time	10/27/2023 19:24:07	
	Up Time	0 Days, 01:46:47	
	Operation Mode(2.4GHz)	Access Point	
	Operation Mode(5GHz)	Access Point	
	MAC Address(2.4GHz)	3c:33:32:9b:f7:10	
	MAC Address(5GHz)	3c:33:32:9b:f7:18	
	IP Address	192.168.0.100	

Performance

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

Wireless Band: Select either 2.4GHz or 5GHz.

Wireless: Use the drop-down menu to turn the wireless function On or Off.

- Wireless Mode: The different combination of clients that can be supported include Mixed 802.11b/g/n mode, Mixed 802.11b/g mode, 802.11n Only mode, and Mixed 802.11ax mode in the 2.4 GHz band and Mixed 802.11a/n, 802.11a Only mode, 802.11n Only mode, Mixed 802.11ac mode and Mixed 802.11ax mode in the 5 GHz band. 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*: Indicate the base transfer rate of wireless adapters on the wireless LAN. The AP will adjust the base transfer rate depending on the base rate of the connected device. If there are obstacles or interference, the AP will step down the rate. This option is enabled in Mixed 802.11b/g mode (for 2.4 GHz) and 802.11a only mode (for 5 GHz). The choices available are Best (Up to 54), 54, 48, 36, 24, 18, 12, 9, 6 for 5 GHz and Best (Up to 54), 54, 48, 36, 24, 18, 12, 9, 6, 11, 5.5, 2 or 1 for 2.4 GHz.
- **Beacon Interval (40-500):** Beacons are packets sent by an access point to synchronize a wireless network. Specify a value in milliseconds. The default (100) is recommended. Setting a higher beacon interval can help to save the power of wireless clients, while setting a lower one can help a wireless client connect to an access point faster.

Performance Settings			
Wireless band	2.4 GHz 🗸		
Wireless	On 🗸		
Wireless Mode	Mixed 802.11ax mode 🗸		
Data Rate	Best(up to 574) ✔ (Mbps)		
Beacon Interval (40-500)	100]	
DTIM Interval (1-15)	1]	
Transmit Power	100% 🗸		
WMM (Wi-Fi Multimedia)	Enable 🛩		
Ack Time Out (2.4GHz, 64~200)	64	(µs)	
Short GI	Disable 🗸		
IGMP Snooping	Disable 🗸		
Multicast Rate	Disable 🛩		
Multicast Bandwidth Control	Disable 🗸		
Maximum Multicast Bandwidth	100	kbps	
HT20/40 Coexistence	Enable 🛩		
Transfer DHCP Offer to Unicast	Enable 🗸		
			Save

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:** This setting determines the power level of the wireless transmission. Transmitting power can be adjusted to eliminate overlapping of wireless area coverage between two access points where interference is a major concern. For example, if wireless coverage is intended for half of the area, then select 50% as the option. Use the drop-down menu to select 100%, 50%, 25%, or 12.5%.
- WMM (Wi-Fi Multimedia): WMM stands for Wi-Fi Multimedia. Enabling this feature will improve the user experience for audio and video applications over a Wi-Fi network. This setting only available when legacy client ([802.11a only mode][Mixed b/g mode]) is selected.
 - Ack Time Out: To effectively optimize throughput over long distance links enter a value for Acknowledgement Time Out between 64 and 200 microseconds for 5 GHz and 2.4 GHz in the field provided.
 - Short GI: Select Enable or Disable. Enabling a short guard interval can increase throughput. However, be aware that it can also increase the error rate in some installations due to increased sensitivity to radio-frequency installations. This setting not available when legacy client ([802.11a only mode][Mixed b/g mode]) is selected.
 - IGMP Snooping: Select Enable or Disable. Internet Group Management Protocol allows the AP to recognize IGMP queries and reports sent between routers and an IGMP host (wireless STA). When IGMP snooping is enabled, the AP will forward multicast packets to an IGMP host based on IGMP messages passing through the AP. This setting not available when WDS mode is enabled.
 - Multicast Rate: Select the multicast rate to adjust multicast packet data rates. This setting only available when [Mixed b/g/n mode][Mixed b/g mode][Mixed a/n mode][802.11a only mode] is selected

Multicast Adjust the multicast packet data rate here. The Multicast Bandwidth Control is supported in AP mode, (2.4 GHZ and 5 GHZ) BandwidthControl: and WDS with AP mode, including Multi-SSIDs. This setting not available when WDS mode is enabled.

Maximum Multicast Set the multicast packets' maximum bandwidth pass through rate from the Ethernet interface to the Access Point. Bandwidth:

Enable this option to reduce interference from other wireless networks in your area. If the channel width is operating at 40 MHz HT20/40 Coexistence: and there is another wireless network's channel overlapping and causing interference, the Access Point will automatically change to 20 MHz.

Transfer DHCP Offer to Enable to transfer the DHCP Offer to Unicast from LAN to WLAN. It is suggested to enable this function if stations number is larger Unicast: than 30.

Wireless Resource

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-X3060 will not allow clients to associate with the AP.
- User Limit (0 128): This function is only available when Connection Limit is enabled. Set the maximum amount of users that are allowed access (0 - 128 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.

Network Utilization: Click the drop-down menu to set the maximum utilization of this access point for service. The DAP-X3060 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 for one minute to allow network congestion to dissipate.

Aging out: Use the drop-down menu to select the criteria for 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 eight multiple Service Set Identifiers per radio. You can set the Primary SSID in the Basic > Wireless section. The SSID's factory default setting is dlink. The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network.

Enable Multi-SSID: Check to enable support for multiple SSIDs.

Enable Priority: Check to enable the Priority function.

Band: Select 2.4GHz or 5GHz.

- Index: You can select up to seven multi-SSIDs. With the Primary SSID, you have a total of eight multi-SSIDs per radio.
- **SSID:** Service Set Identifier (SSID) is the name designated for a specific wireless local area network (WLAN). The SSID's factory default setting is **dlink**. The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network.
- **SSID Visibility:** Enable or Disable SSID visibility. Enabling this feature broadcasts the SSID across the network, thus making it visible to all network users.

Index I SSID c	2.4 GHz V Primary SSID V
Index I SSID c	
SSID	Primary SSID V
SSID Visibility	dlink
	Enable 💙
Security	Open System 🗸
Priority	0 🛩
WMM (Wi-Fi Multimedia)	Enable 🗸
Network Key Confirm Key	1 ▼ [0-9,ā-z,Ā-Z,~!@#\$%^&*()_+`-={}[];\:" ,/<>?)
dex SSID E	Ad Encryption Delete
	Band Encryption Delete 2.4 GHz None
indry JJID UIIIK Z	ZIT ONZ NONC

Security: The Multi-SSID security can be Open System, WPA-Personal, or WPA-Enterprise.

For a detailed description of the Open System parameters please go to pages 17. For a detailed description of the WPA-Personal parameters please go to page 18. For a detailed description of the WPA-Enterprise parameters please go to page 19.

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

Priority: Select the priority level of the SSID selected.

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

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

Key Type: Select HEX or ASCII.

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

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

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

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

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

Group Key Update Interval: Select the interval during which the group key will be valid. The default value of 3600 seconds is recommended.

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

Confirm Pass Phrase: When you select WPA-Personal, please re-enter the Pass Phrase entered in the previous item in the corresponding field.

RADIUS Server: When you select WPA-Enterprise, enter the IP address of the RADIUS server. In addition, you must configure RADIUS Port and RADIUS Secret.

RADIUS Port: Enter the RADIUS port.

RADIUS Secret: Enter the RADIUS secret.

Accounting Mode: Click the drop-down menu to enable or disable the accounting mode.

Accounting Server: Enter the IP address of the accounting server.

VLAN

VLAN List

The DAP-X3060 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-X3060 without a VLAN tag will have a VLAN tag inserted with a PVID. The VLAN List tab displays the current VLANs.

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

VLAN Mode: The current VLAN mode is displayed.

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: Clink the icon to edit the current VLAN.

Delete: Click the icon to delete the current VLAN.

'LAN Status 'LAN Mode		isable OEnable c(2.4 GHz) Static(5	GHz)	
VLAN	List	Port List	Add/Edit VLAN	PVID Setting
1	default	Mgmt, LAN, Prima GH2), S-1(2.4 GH 2(2.4 GHz), S-3(2.4 GHz), S-6(2.4 GH 7(2.4 GHz), Prim GHz), S-6(2.4 GH 7(2.4 GHz), Pin GHz), S-1(5 GHz), GHz), S-3(5 GHz), GHz), S-5(5 GHz), GHz), S-7(5 GH	z), S- 4 GHz), 5(2.4 z), S- ary(5 S-2(5 S-4(5 S-6(5	⊡ 11

Port List

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

- VLAN Status: Use the radio button to toggle to Enable. Next, go to the Add/Edit VLAN tab to add or modify an item on the VLAN List tab.
- 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:** The name of the port is displayed in this column.
 - Tag VID: The Tagged VID is displayed in this column.
- Untag VID: The Untagged VID is displayed in this column.
 - **PVID:** The Port VLAN Identifier is displayed in this column.

'LAN Status 'LAN Mode	Disable Enable Static(2.4 GHz) Static(5	GHz)	
VLAN List	Port List	Add/Edit VLAN	PVID Setting
Port Name	Tag VID	Untag VI	D PVID
Mgmt		1	1
LAN		1	1
Primary(2.4 GHz)		1	1
S-1(2.4 GHz)		1	1
S-2(2.4 GHz)		1	1
S-3(2.4 GHz)		1	1
S-4(2.4 GHz)		1	1
S-5(2.4 GHz)		1	1
S-6(2.4 GHz)		1	1
S-7(2.4 GHz)		1	1
Primary(5 GHz)		1	1
S-1(5 GHz)		1	1
S-2(5 GHz)		1	1
S-3(5 GHz)		1	1
S-4(5 GHz)		1	1
S-5(5 GHz)		1	1
S-6(5 GHz)		1	1

Add/Edit VLAN

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

VLAN Status:	Use the radio button to toggle to Enable.
VLAN Mode:	Displays the current VLAN mode.

- VLAN ID: Provide a number between 1 and 4094 for the Internal VLAN.
- VLAN Name: Enter the VLAN to add or modify.
 - Save: Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

VLAN Settings									
-	Disable O atic(2.4 GHz)	Enable (Static(5 G		ave	\supset				
VLAN List	Port L	.ist	Add	/Edit	VLAN	l I	P	VID Se	etting
VLAN ID (VID)		VLAN Nar	ne						
Port		Selec	_			Mgmt	t	_	AN
Untag		A				0			
Tag Not Membe		A				0			
Not Membe	er	A							
-2.4 GHz									
MSSID Port	Select All	Primary	S-1	S-2	S-3	S-4	S-5	S-6	S-7
Untag	All	0	0	0	0	0	0	0	0
Tag	All	\bigcirc	\bigcirc	0	0	\bigcirc	0	\bigcirc	0
Not Member	All		•					•	
5 GHz									
	Select All	Primary	S-1	S-2	S-3	S-4	S-5	S-6	S-7
MSSID Port	DEIELL AII	Filling							
MSSID Port Untag	All	O	0	0	0	0	0	0	0
			-	0	0	0	0	0	0

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 the Save button to let your changes take effect.

VLAN Status:	Use the radio button to toggle between Enable and Disable.

- **VLAN Mode:** Displays the current VLAN mode.
- **PVID Auto Assign Status:** Use the radio button to toggle PVID auto assign status to Enable.

VLAN Settings	_	_	_	_	
	Disable OEnab tatic(2.4 GHz) Sta)		
VLAN List	Port List	Add/Ed	lit VL <mark>A</mark> N	PVID S	Setting
PVID Auto Assign Statu	is 💿 Disable	O Enable			
Port	Mgm	t		LAN	
PVID	1		1	1	
2.4 GHz					
MSSID Primary Port	S-1 S-2	S-3 S-4	S-5	S-6	S-7
PVID 1	1 1	1 1	1	1 1	
5 GHz					
MSSID Primary Port	S-1 S-2	S-3 S-4	S-5	S-6	S-7
PVID 1	1 1	1 1	1	1 1	
				\subset	Save

Intrusion

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

Wireless Band: Select 2.4GHz or 5GHz.

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

The following is a definition of the listed AP categories:

- Valid: An AP which is authenticated to the network with encryption is classified as valid.
- Neighbor: A detected AP with a weak signal strength is classified as a suspect neighbor.
- Rogue: An AP that has been installed on the secure network without explicit authorization.
- New: An alternative category.

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

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

Wireless Int	rusion Prot	ection			_
Wireless Band Detect AP List	2.4 GHz 🗸				
All V Type Band	СН	SSID	BSSID	Last Seen	Status
Set as Valid Se Mark All New Ac	cess Points as Va			C	Save

Schedule

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

- Wireless Schedule: Use the drop-down menu to enable the device's scheduling feature.
 - Name: Enter a name for the new scheduling rule in the field provided.
 - Index: Use the drop-down menu to select the desired SSID.
 - **SSID:** This read-only field indicates the current SSID in use. To create a new SSID, go to the Wireless Settings window (Basic Settings > **Wireless**).
 - **Day(s):** Toggle the radio button between All Week and Select Day(s). If the second option is selected, check the specific days you want the rule to be effective on.
 - All Day(s): Check this box to have your settings apply 24 hours a day.
 - Start Time: Enter the beginning hour and minute, using a 24-hour clock.
 - End Time: Enter the ending hour and minute, using a 24-hour clock.

Name	
Index	Primary SSID 2.4 GHz 🗸
SSID	dlink
Day(s)	All Week Select Day(s)
	Sun Mon Tue Wed Thu Fri Sat
All Day(s)	
Start Time	: hour:minute, 24 hour time
End Time	: hour:minute, 24 hour time Overnight
	Add Clear
Schedule	Rule List
Name S	SSID Index SSID Day(s) Time Frame Wireless Edit De

Internal RADIUS Server

The DAP-X3060 features a built-in RADIUS server. Once you have finished adding a RADIUS account, click the Save button to let your changes take effect. The newly-created account will appear in 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 s	erver.				

- **Password:** Enter a password to authenticate user access to the internal RADIUS server. The length of your password should be 8~64.
 - Status: Toggle the drop-down menu between Enable and Disable.

RADIUS Account List: Displays the list of users.

Internal RADIUS Server							
Add RADIUS Account							
User Name							
Password							
Status	Enable 🗸						
RADIUS Account list							
User Name	Enable	Disable	Delete				
			Save				

ARP Spoofing Prevention

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

ARP Spoofing Prevention: This drop-down allows you to enable the ARP spoofing prevention function.

Add: Click to create a defined rule.

Clear: Click to clear a defined rule.

Gateway IP Address: Enter a gateway IP address.

Gateway MAC Address: Enter a gateway MAC address.

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 F	Prevention Se	ettings	_			
ARP Spoofing Prevention	Disable 🗸					
Add Gateway Add	ress					
Gateway IP Address	·					
Gate MAC Address	:	:	:	:	:	
	Add Clear					
Gateway Address	List					
Total Entries 0						Delete All
Gateway IP Address	G	ate MAC	Address		Edit	Delete
					6	Save

Bandwidth Optimization

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

Enable Bandwidth Optimization:	Use the drop-down menu to Enable the Bandwidth Optimization function.
Downlink Bandwidth:	Enter the downlink bandwidth of the device in Mbits per second.
Uplink Bandwidth:	Enter the uplink bandwidth of the device in Mbits per second.
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. Reserve certain bandwidth for future clients.
Allocate different BW for a/b/g/n stations:	The weight of 11b/g/n and 11a/n client are 10%/20%/70% and 20%/80%. AP will distribute different bandwidth for 11a/b/g/n clients.
Allocate specific BW for SSID:	All clients share the total bandwidth.
Rule Type:	Use the drop-down menu to select the type that is applied to the rule. Available options are: Allocate average BW for each station , Allocate maximum BW for each station , Allocate different BW for 1a/b/g/n stations , and Allocte specific BW for

Enable Bandwidth Optimization	Disable 🗸	
Downlink Bandwidth	80	Mbits/sec
Uplink Bandwidth	80	Mbits/sec
Add Bandwidth Optimizati	on Rule	
Rule Type	Allocate average BW	for each station 🗸
Band	2.4 GHz 🛩	
SSID Index	Primary SSID 🗸	
Downlink Speed		Kbits/sec 🗸
Uplink Speed		Kbits/sec 🗸
	Add Clear	
Bandwidth Optimization R	ules	
Band Type SSID Index	Downlink Speed	Uplink Speed Edit Delete
band Type SSID Index	Dominink Speed	

SSID.

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

Captive Portal

Authentication Settings-Web Redirection Only

The Captive Portal is a built-in web authentication server. When a station connects to an AP, the web browser will be redirected to a web authentication page. In this window, users 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.

Idle Timeout(1-1440):	Enter the session timeout value here. This value		
	can be from 1 to 1440 minutes. By default, this	Captive Portal Authentica	ation
	value is 60 minutes.	Idle Timeout (1-1440)	60
Band:	Select 2.4GHz or 5GHz.	Band	2.4 GHz 🗸
SSID Index:		SSID Index	Primary SSID 🗸
	Select the SSID for this Authentication.	Authentication Type —Web Redirection Interface Settings—	Web Redirection Only 🗸
Authentication Type:		Web Redirection State	Enable 🗸
	Select the captive portal encryption type here.	URL Path	http:// V
	Options to choose from are Web Redirection, Username/Password, Passcode, Remote	IP Interface Settings	incpii
	RADIUS, LDAP and POP3. In this section we'll	IPIF Status	Disable 🗸
	discuss the Web Redirection option.	VLAN Group	
Web Redirection State:		Get IP From	Static IP(Manual) 🖌
	The default setting is Enable when you select	IP Address	
	Web Redirection Only.	Subnet Mask	
URL Path:		Gateway	
	Select whether to use either HTTP or HTTPS here. After selecting either http:// or https://,	DNS	
	enter the URL of the website that will be used		
	in the space provided.		
IPIF Status:			
	Select to Enable or Disable the Captive Portal	Band SSID Index	Captive Profile
	with its IP interface feature here.		
VLAN Group:			
Get IP From:	Enter the VLAN Group ID here.		
Get ip from:			

Save

Delete

Edit

Minute(s)

IP Address:	Static IP (Manual) is chosen here. Choose this option if you do not have a DHCP server in your network, or if you wish to assign a static IP address to the DAP-X3060. When Dynamic IP (DHCP) is selected, the other fields here will be grayed out. Please allow about 2 minutes for the DHCP client to be functional once this selection is made.
Cube et Maale	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 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, users 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(1-1440):	Enter the session timeout value here. This value can be from 1 to 1440 minutes. By default, this value is 60 minutes.	I
Band:	Select 2.4GHz or 5GHz.	S
SSID Index:	Select the SSID for this Authentication.	
Authentication Type:	Select the captive portal encryption type here. Options to choose from are Web Redirection, Username/Password, Passcode, Remote RADIUS, LDAP and POP3. In this section we'll discuss the Username/Password option.	
Web Redirection State:	Disable is default setting. Select Enable to enable the website redirection feature.	
URL Path:	Select whether to use HTTP or HTTPS. After selecting either http:// or https://, enter the URL of the website that will be used in the space provided.	E
IPIF Status:	Select to Enable or Disable the Captive Portal with its IP interface feature here.	
VLAN Group:	Enter the VLAN Group ID here.	

Captive Portal Authentica	ation	
Idle Timeout (1-1440)	60 Minute(s)	
Band	2.4 GHz 🗸	
SSID Index	Primary SSID 🗸	
Authentication Type 	Username/Password V	
Web Redirection State	Disable 🗸	
URL Path	http:// 🗸	
IP Interface Settings		
IPIF Status	Disable 🗸	
VLAN Group		
Get IP From	Static IP(Manual) 🗸	
IP Address		
Subnet Mask		
Gateway		
DNS		
Username/Password Settings		
Username		
Password		
	Add Clear	
Username	Edit Delete	
	<u>s</u>	ave
Band SSID Index	Captive Profile Edit Delete	3

- Get IP From: Static IP (Manual) is chosen here. Choose this option if you do not have a DHCP server in your network, or if you wish to assign a static IP address to the DAP-X3060. When Dynamic IP (DHCP) is selected, the other fields here will be grayed out. Please allow about 2 minutes for the DHCP client to be functional once this selection is made.
- IP Address: Assign a static IP address that is within the IP address range of your network.
- Subnet Mask: Enter the subnet mask. All devices in the network must share the same subnet mask.
 - **Gateway:** Enter the IP address of the gateway/router in your network.
 - **DNS:** Enter a DNS server IP address. This is usually the local IP address of your gateway/router.
 - Username: Enter the username for the new account here.
 - Password: Enter the password for the new account here.
 - Add: Click to create a defined rule.
 - **Clear:** Click to remove the settings from the menu interface.
 - Edit: Click to edit the selected gateway entry.
 - **Delete:** Click to delete the gateway entry.
 - Save: Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

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, users can view and configure the Captive Portal settings. After selecting Passcode as the Authentication Type, you can configure the Passcode authentication that will be applied to each wireless client in this network.

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

Captive Portal Authentica	tion	
Idle Timeout (1-1440)	60	Minute(s)
Band	2.4 GHz 🗸	,
SSID Index	Primary SSID V	
Authentication Type	Passcode 🗸	
Web Redirection Interface Settings		
Web Redirection State	Disable 🗸	
URL Path	http:// 🗸	
IP Interface Settings		
IPIF Status	Disable 🗸	
VLAN Group		
Get IP From	Static IP(Manual) 🗸	
IP Address		
Subnet Mask		
Gateway		
DNS		
Passcode Settings		
Passcode Quantity		1
Duration		Hour
Last Active Time	Year 2021 V Month J	an 🗸 Day 1 🗸
	Hour 1:00 🗸	
User Limit]
	Add Clear	
Delete All		
Passcode Duration Las	t Active Time U	ser Limit Delete
		Save
Dead CCID Index	Casting Des file	
Band SSID Index	Captive Profile	Edit Delete

- Get IP From: Static IP (Manual) is chosen here. Choose this option if you do not have a DHCP server in your network, or if you wish to assign a static IP address to the DAP-X3060. When Dynamic IP (DHCP) is selected, the other fields here will be grayed out. Please allow about 2 minutes for the DHCP client to be functional once this selection is made.
- IP Address: Assign a static IP address that is within the IP address range of your network.
- Subnet Mask: Enter the subnet mask. All devices in the network must share the same subnet mask.
 - Gateway: Enter the IP address of the gateway/router in your network.
 - **DNS:** Enter a DNS server IP address. This is usually the local IP address of your gateway/router.
- **Passcode Quantity:** Enter the number of ticket that will be used here.
 - **Duration:** Enter the duration value, in hours, for this passcode.
 - Last Active Day: Select the last active date for this passcode here. Year, Month and Day selections can be made.
 - **User Limit:** Enter the maximum amount of users that can use this passcode at the same time

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 entry.
Save:	Click to save the updated configuration. To make

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, users can view and configure the Captive Portal settings. After selecting Remote RADIUS as the Authentication Type, you can configure the Remote RADIUS authentication that will be applied to each wireless client in this network.

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

dle Timeout (1-1440)	60	Minute(s)
and	2.4 GHz 🗸	
SID Index	Primary SSID V	
uthentication Type	Remote RADIUS	Ì.
Web Redirection Interface Setti		,
Web Redirection State	Disable 🗸	
URL Path	http:// 🗸	
IP Interface Settings		
IPIF Status	Disable 🗸	
VLAN Group		
Get IP From	Static IP(Manual) 🗸	
IP Address		
Subnet Mask		
Gateway		
DNS		
Radius Server Settings Radius Server		Radius Port
	1812	
Radius Secret		
Remote RADIUS Type	SPAP 🗸	
Secondary radius Server Setting Radius Server	gs	Radius Port
Radius Server	1812	Radius Port
Radius Secret	1012	
Remote RADIUS Type	SPAP 🗸	
Third radius Server Settings	JFAP 1	
Radius Server		Radius Port
	1812	
Radius Secret		
Radius Secret	SPAP 🗸	
Remote RADIUS Type		
		Save

- Get IP From: Static IP (Manual) is chosen here. Choose this option if you do not have a DHCP server in your network, or if you wish to assign a static IP address to the DAP-X3060. When Dynamic IP (DHCP) is selected, the other fields here will be grayed out. Please allow about 2 minutes for the DHCP client to be functional once this selection is made.
- IP Address: Assign a static IP address that is within the IP address range of your network.
- Subnet Mask: Enter the subnet mask. All devices in the network must share the same subnet mask.
 - Gateway: Enter the IP address of the gateway/router in your network.
 - **DNS:** Enter a DNS server IP address. This is usually the local IP address of your gateway/router.
- Radius Server: Enter the RADIUS server's IP address here
 - Radius Port: Enter the RADIUS server's port number here
 - Radius Port: Enter the RADIUS server's shared secret here
- **Remote Radius Type:** Select the remote RADIUS server type here. The default setting is SPAP.
 - **Edit:** Click to edit the selected entry.
 - **Delete:** Click to delete the 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, users can view and configure the Captive Portal settings. After selecting LDAP as the Authentication Type, you can configure the LDAP authentication that will be applied to each wireless client in this network.

	Enter the session timeout value here. This value can be from 1 to 1440 minutes. By default, this value is 60 minutes.
Band:	Select 2.4GHz or 5GHz.
SSID Index:	Select the SSID for this Authentication.
Authentication Type:	Select the captive portal encryption type here. Options to choose from are Web Redirection, Username/Password, Passcode, Remote RADIUS, LDAP and POP3. In this section we'll discuss the LDAP option.
Web Redirection State:	The default setting is Disable. Select Enable to enable the website redirection feature.
URL Path:	Select whether to use either HTTP or HTTPS here. After selecting either http:// or https://, enter the URL of the website that will be used in the space provided.
IPIF Status:	Select to Enable or Disable the Captive Portal with its IP interface feature here.
VLAN Group:	Enter the VLAN Group ID here.
Get IP From:	Static IP (Manual) is chosen here. Choose this option if you do not have a DHCP server in your network, or if you wish to assign a static IP address to the DAP-X3060. When Dynamic IP (DHCP) is selected, the other fields here will be grayed out. Please allow about 2 minutes for the DHCP client to be functional

once this selection is made.

de Timeout (1-1440)	60 Minute(s)
and	2.4 GHz 🗸
SID Index	Primary SSID V
uthentication Type	
Web Redirection Interface Settings	
Web Redirection State	Disable 🗸
URL Path	http:// 🖌
IP Interface Settings	
IPIF Status	Disable 🗸
VLAN Group	
Get IP From	Static IP(Manual) 🗸
IP Address	
Subnet Mask	
Gateway	
DNS	
LDAP Settings	
Server	
Port	389
Authenticate Mode	Simple V
Username	
Password	
Base DN	(ou=,dc=)
	(ex.cn)
Account Attribute	

IP Address:	Assign a static IP address that is within the IP address range of your network.
Subnet Mask:	Enter the subnet mask. All devices in the network must share the same subnet mask.
Gateway:	Enter the IP address of the gateway/router in your network.
DNS:	Enter a DNS server IP address. This is usually the local IP address of your gateway/router.
Server:	Enter the LDAP server's IP address or domain name here.
Port:	Enter the LDAP server's port number here.
Authenticate Mode:	Select the authentication mode here. Options to choose from are Simple and TLS.
Username:	Enter the LDAP server account's username here.
Password:	Enter the LDAP server account's password here.
Base DN:	Enter the administrator's domain name here
Account Attribute:	Enter the LDAP account attribute string here. This string will be used to search for clients.
Identity:	Enter the identity's full path string here. Alternatively, select the Auto Copy checkbox to automatically add the generic full path of the web page in the identity field.
Edit:	Click to edit the selected entry.
Delete:	Click to delete the entry.
Save:	Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

Web

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, users can view and configure the Captive Portal settings. After selecting POP3 as the Authentication Type, you can configure the POP3 authentication that will be applied to each wireless client in this network.

	Enter the session timeout value here. This value can be from 1 to 1440 minutes. By default, this value is 60 minutes.
Band:	Select 2.4GHz or 5GHz.
SSID Index:	Select the SSID for this Authentication.
Authentication Type:	Select the captive portal encryption type here. Options to choose from are Web Redirection, Username/Password, Passcode, Remote RADIUS, LDAP and POP3. In this section we'll discuss the POP3 option.
Veb Redirection State:	The default setting is Disable. Select Enable to enable the website redirection feature.
URL Path:	Select whether to use either HTTP or HTTPS here. After selecting either http:// or https://,

	Gateway	
The default setting is Disable. Select Enable to enable the website redirection feature.	DNS POP3 Settings Server	
Select whether to use either HTTP or HTTPS here. After selecting either http:// or https://, enter the URL of the website that will be used in the space provided.	Port Connection Type	110 None V
Select to Enable or Disable the Captive Portal	Band SSID Index	Captive Profile

Captive Portal Authentication

Web Redirection Interface Settings

60

POP3

2.4 GHz 🗸

Disable 🗸

http:// 🗸

Disable 🗸

Static IP(Manual) V

Primary SSID V

Minute(s)

~

Idle Timeout (1-1440)

Authentication Type

Web Redirection State

IP Interface Settings **IPIF Status**

Band

SSID Index

URL Path

VLAN Group Get IP From

IP Address Subnet Mask

- IPIF Status: Select to Enable or Disable the Captive Portal with its IP interface feature here.
- VLAN Group: Enter the VLAN Group ID here.

Save

Delete

Edit

- Get IP From: Static IP (Manual) is chosen here. Choose this option if you do not have a DHCP server in your network, or if you wish to assign a static IP address to the DAP-X3060. When Dynamic IP (DHCP) is selected, the other fields here will be grayed out. Please allow about 2 minutes for the DHCP client to be functional once this selection is made.
- IP Address: Assign a static IP address that is within the IP address range of your network.
- Subnet Mask: Enter the subnet mask. All devices in the network must share the same subnet mask.
 - Gateway: Enter the IP address of the gateway/router in your network.
 - **DNS:** Enter a DNS server IP address. This is usually the local IP address of your gateway/router.
 - Server: Enter the POP3 server's IP address or domain name here.
 - **Port:** Port: Enter the POP server's port number here.
- **Connection Type:** Select the connection type here. Options to choose from are None and SSL/TLS.
 - Edit: Click to edit the selected entry.
 - **Delete:** Click to delete the 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 the **Browse** button to navigate to the login style located on the managing computer and then click the **Upload** button to initiate the upload.

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

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

L	ogin Page Upload										
Upload Login Style From Local Hard Drive											
Uplo	oad Login Style from file	[Choos	e File	No file	choser	n			Upload	
The	Left space	3	9,165	,952 E	Byte(s))					
Log	in Page Style List										
Wire	eless Band	[2.4 Gł	Iz ❤							
ID	Style Name	Pri	S-1	S-7	S-3	S-4	S-5	S-6	S-7	Download	Del
1	pages_default.tar	\bigcirc									
2	pages_headerpic.tar	\bigcirc									
3	pages_license.tar	\bigcirc									
										Sa	ive

MAC Bypass

The DAP-X3060 features a wireless MAC Bypass. Once finished editing these settings, click the Save button to let the changes take effect.

Wireless Band: Select the wireless band for MAC Bypass.

SSID Index: Select the SSID for 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 this list. Highlight a MAC address and click the Delete icon to remove it from this list.

Upload File: To upload a MAC bypass list file, click Browse and navigate to the MAC bypass list file saved on the computer, and then click Upload.

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

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

MAC Bypass Settin	gs
Wireless Band SSID Index MAC Address	2.4 GHz ▼ Primary SSID ▼
ID MAC Address	Delete
Upload MAC File	
Upload File :	Choose File No file chosen Upload
Download MAC File	
Load MAC File to Local Hard Driver :	Download
	Save

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-X3060 is capable of acting as a DHCP server.

Function Enable/Disable: Dynamic Host Configuration Protocol (DHCP) assigns dynamic IP addresses to devices on the network. This protocol simplifies network management and allows new wireless devices to receive IP addresses automatically without the need to manually assign new IP addresses. Select Enable to allow the DAP-X3060 to function as a DHCP server.

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

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

OHCP Server Control		
unction Enable/Disable	Disable 🗸	
Oynamic Pool Settings		
IP Assigned From	192.168.0.20	
(P Pool Range(1-254)	235	
Subnet Mask	255.255.255.0	
Gateway		
WINS		
DNS		
Domain Name	dlink-ap	
Lease Time (60 - 31536000 sec)	604800	

- Subnet Mask: All devices in the network must have the same subnet mask to communicate. Enter the subnet mask for the network here.
 - Gateway: Enter the IP address of the gateway on the network.
 - WINS: Specify the Windows Internet Naming Service (WINS) server address for the wireless network. WINS is a system that determines the IP address of a network computer that has a dynamically assigned IP address.
 - **DNS:** Enter the IP address of the Domain Name System (DNS) server. The DNS server translates domain names such as www.dlink.com into IP addresses.

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

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

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

Static Pool Setting

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

- Function Enable/Disable: Dynamic Host Configuration Protocol (DHCP) assigns IP addresses to wireless devices on the network. This protocol simplifies network management and allows new wireless devices to receive IP addresses automatically without the need to manually assign IP addresses. Select Enable to allow the DAP-X3060 to function as a DHCP server.
 - Assigned IP: Use the Static Pool Settings to assign the same IP address to a device every time you start up. The IP addresses assigned in the Static Pool list must NOT be in the same IP range as the Dynamic Pool. After you have assigned a static IP address to a device via its MAC address, click Apply; the device will appear in the Assigned Static Pool at the bottom of the screen. You can edit or delete the device in this list.
 - Assigned MAC Address: Enter the MAC address of the device requesting association here.
 - Subnet Mask: Define the subnet mask of the IP address specified in the "IP Assigned From" field.

DHCP Server Control		
Function Enable/Disable	Disable 🗸	
Static Pool Setting		
Host Name		
Assigned IP		
Assigned MAC Address		
Subnet Mask	255.255.255.0	
Gateway		
WINS		
DNS		
Domain Name	dlink-ap	
	<u>s</u>	ave
Host Name MAC Ad	dress IP Address Edit Dele	te

- Gateway: Specify the Gateway address for the wireless network.
 - WINS: Specify the Windows Internet Naming Service (WINS) server address for the wireless network. WINS is a system that determines the IP address of a network computer with a dynamically assigned IP address, if applicable.
 - **DNS:** Enter the DNS server address for your wireless network.

Domain Name: Specify the domain name for the network.

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

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 the DHCP server on the AP and assign dynamic and static IP address pools.

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

- **Binding MAC Address:** The MAC address of a device on the network that is within the DHCP static IP address pool.
 - Assigned IP Address: The current corresponding DHCP-assigned static IP address of the device.
- **Binding MAC Address:** The MAC address of a device on the network that is assigned an IP address from the DHCP dynamic pool.
 - Assigned IP Address: The current corresponding DHCP-assigned static IP address of the device.
 - Save: Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

server assigned through the static pool settings.

Filters

Wireless MAC ACL

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

Wireless Band: Displays the current wireless band rate.

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

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

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

- **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 **Apply**.
- MAC Address List: When you enter a MAC address, it appears in this list. Highlight a MAC address and click Delete to remove it from this list.

Current Client

- Information: This table displays information about all the current connected stations.
- **Upload File:** To upload an ACL list fle, click Browse and navigate to the ACL list file saved on the computer, and then click Upload.

Load MAC File to Local

Hard Driver: To download the ACL list, click Download and to save the ACL list.

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

Wireless M	AC ACL Setti	ngs	_	_	_
Wireless Band	2.4 GHz 🗸	Total : 51	2 Used : 0		
Access Control List	Disable 🗸				
SSID Index	Primary SSID 🗸]			
MAC Address	Add	:	:	:	
ID MAC	Address			Delete	
Current Client Info	ormation				
MAC Address	SSID	Band Authe	ntication	Sign	al Add
Upload ACL File					
Upload File :		Choose File	No file choser	n	Upload
Download ACL F	File				
Load ACL File to L	ocal Hard Driver :	Download			
					Save

WLAN Partition

This page allows the user to configure a WLAN Partition.

Wireless Band: Displays the current wireless band.

- Link Integrity: Select Enable or Disable. If the Ethernet connection between the LAN and the AP is disconnected, enabling this feature will cause the wireless segment associated with the AP to be disassociated from the AP.
- Ethernet WLAN Access: The default is Enable. When disabled, all data from the Ethernet to associated wireless devices will be blocked. Wireless devices can still send data to the Ethernet.
- Internal Station Connection: The default value is Enable, which allows stations to intercommunicate by connecting to a target AP. When disabled, wireless stations cannot exchange data on the same Multi-SSID. In Guest mode, wireless stations cannot exchange data with any station on your network.
 - Save: Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

WLAN Partition	I		
Wireless Band		2.4 GHz 🗸	
Link Integrity		Disable 🗸	
Ethernet to WLAN Acces	s	Enable 🗸	
Internal Station Connect	tion		
Primary SSID	Enable	O Disable	◯ Guest Mode
Multi-SSID 1	Enable	O Disable	O Guest Mode
Multi-SSID 2	Enable	Disable	🔾 Guest Mode
Multi-SSID 3	Enable	Disable	Guest Mode
Multi-SSID 4	Enable	Disable	Guest Mode
Multi-SSID 5	Enable	Disable	🔾 Guest Mode
Multi-SSID 6	Enable	Disable	Guest Mode
Multi-SSID 7	Enable	Disable	🔾 Guest Mode
			Save

IP Filter Settings

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

- Wireless Band: 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.
- 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 an IP address and click **Delete** icon to remove it from the list.
- Upload IP Filter File: To upload the IP filter list file, click Choose File and navigate to the IP filter list file saved on the computer, and then click Upload.
- **Download IP Filter File:** To download the 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	2.4 GHz V Primary SSID V	
Filter State IP Address	Disable 🗸	
Subnet Mask		
ID IP Address	Subnet Mask	Delete
Upload IP Filter File		
Upload File :	Choose File No file chosen	Upload
Download IP Filter File		
Load IP Filter File to Local Hard Driver :	Download	Save

Traffic Control Uplink/Downlink Setting

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 the **Save** button to let your changes take effect.

Downlink Bandwidth: The downlink bandwidth in Mbits per second.

Uplink Bandwidth: The uplink bandwidth in Mbits per second.

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

Uplink and Downlink Settings				
Ethernet	Downlink Uplink			
2.4 GHz	5 GHz			
Downlink Interface				
 Primary-ssid Multi-ssid4 	Multi-ssid1 Multi-ssid5	Multi-ssid2 Multi-ssid6	Multi-ssid3 Multi-ssid7	
Uplink Interface				
Primary-ssid	Multi-ssid1 Multi-ssid5	Multi-ssid2 Multi-ssid6	Multi-ssid3 Multi-ssid7	
Downlink Bandwidth(1~1200) 100 Mbits/sec				
Uplink Bandwidth(1~120	0) 100		Mbits/sec	
			<u>s</u>	ave

QoS

Quality of Service (QoS) enhances the experience of using a network by prioritizing the traffic of different applications. The DAP-X3060 supports four priority levels. Once the desired QoS settings are finished, click the **Save** button to let your changes take effect.

Enable QoS: Check this box to allow QoS to prioritize traffic. Use the drop-down menus to select the four levels of priority. Click the Save button when you are finished.

Downlink Bandwidth: The downlink bandwidth in Mbits per second. This value is entered in the Uplink/Downlink Setting window.

Uplink Bandwidth: The uplink bandwidth in Mbits per second. This value is entered in the Uplink/Downlink Setting window.

ACK/DHCP/ICMP/DNS Click the drop-down menu to select the level of Priority: priority for the selected rule.

- Web Traffic Priority: Click the drop-down menu to select the level of priority for the selected rule.
- FTP Traffic Priority: Click the drop-down menu to select the level of priority for the selected rule.
- User Defined-1/2/3/4 Click the drop-down menu to select the level of **Priority:** 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.

nable QoS			
Advanced QoS			
Downlink Bandwidth	100	Mbits/sec	
Uplink Bandwidth	100	Mbits/sec	
ACK/DHCP/ICMP/DNS	Highest Priority 🗸	Limit 100 %	% Port
Priority	53,67,68,546,547		
Mail Traffic Priority	Second Priority 🗸	Limit 100 %	% Port
	25,110,465,995		
Web Traffic Priority	Third Priority 🗸	Limit 100 %	% Port
	80,443,3128,8080		
FTP Traffic Priority	Low Priority 🗸 🗸	Limit 100 %	% Port
	20,21		
User Defined-1 Priority	Highest Priority 🗸	Limit 100 %	% Port 0 - 0
User Defined-2 Priority	Second Priority 🗸	Limit 100 %	% Port 0 - 0
User Defined-3 Priority	Third Priority 🗸	Limit 100 %	6 Port 0 - 0
User Defined-4 Priority	Low Priority 🗸 🗸	Limit 100 %	6 Port 0 - 0
Other Traffic Priority	Low Priority 🗸	Limit 100 %	6

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 speeds for new traffic manager rules. Click the **Save** button to let your changes take effect.

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

- Unlisted Client Traffic: Select Deny or Forward to determine how to deal with unlisted client traffic.
- **Downlink Bandwidth:** The downlink bandwidth in Mbits per second. This value is entered in the Uplink/Downlink Setting window.
 - Uplink Bandwidth: The uplink bandwidth in Mbits per second. This value is entered in the Uplink/Downlink Setting 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.
 - Save: Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

Traffic Manager		
Traffic Manager Unlisted Clients Traffic Downlink Bandwidth Uplink Bandwidth	Disable ✓ Deny ● Forward 100 100	Mbits/sec Mbits/sec
Add Traffic Manager		
Name Client IP (Optional) Client MAC (Optional) Downlink Speed Uplink Speed	Add Clear	Mbits/sec Mbits/sec
Traffic Manager Rules		
Name Client IP Client MAC	Downlink Speed Uplin	k Speed Edit Delete

Status

In the Status Section the user can monitor and view the 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.

	aintenance 🔻 📕 Configuration 🔻	😜 System 🛛 🙋 Logout 🛛 😰 Help	
DAP-X3060	Device Information		
🕀 📁 Basic Settings			
🕁 📁 Advanced Settings		Firmware Version: v1.00	
🖻 🎾 Status	Ethernet MAC Address	3c:33:32:9b:f7:10	
Device Information	Wireless MAC Address(2.4GHz)	Primary: 3c:33:32:9b:f7:10 SSID 1~7: 3c:33:32:9b:f7:11 ~ 3c:33:32:9b:f7:17	
	Wireless MAC Address(5GHz)	Primary: 3c:33:32:9b:f7:18 SSID 1~7: 3c:33:32:9b:f7:19 ~ 3c:33:32:9b:f7:1f	
🔤 Channel Analyze	Ethernet		
Statistics	IP Address	192.168.0.100	
∓ ∭ Log	Subnet Mask	255.255.255.0	
	Gateway	192.168.0.1	
	DNS	192.168.0.1 192.168.0.1	
	Wireless (2.4GHz)		
	Network Name (SSID)	dlink	
	Channel	11	
	Data Rate	Auto	
	Security	None	
	Wireless (5GHz)		
	Network Name (SSID)	dlink	
	Channel	36	
	Data Rate	Auto	
	Security	None	
	Device Status		
	CPU Utilization	4%	
	Memory Utilization	56%	
	Nuclias Connect		
	Connection Status	Disconnect	
	Server IP/PORT		

Device Information

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

Device Information: This read-only window displays the configuration settings of the DAP-X3060, including the firmware version and the device's MAC address.

Firmware Version: v1.00				
Ethernet MAC Address	3c:33:32:9b:f7:10			
Wireless MAC Address(2.4GHz)	Primary: 3c:33:32:9b:f7:10 SSID 1~7: 3c:33:32:9b:f7:11 ~ 3c:33:32:9b:f7:17			
Wireless MAC Address(5GHz)	Primary: 3c:33:32:9b:f7:18 SSID 1~7: 3c:33:32:9b:f7:19 ~ 3c:33:32:9b:f7:1f			
Ethernet				
IP Address	192.168.0.100			
Subnet Mask	255.255.255.0			
Gateway	192.168.0.1			
DNS	192.168.0.1 192.168.0.1			
Wireless (2.4GHz)				
Network Name (SSID)	dlink			
Channel	11			
Data Rate	Auto			
Security	None			
Wireless (5GHz)				
Network Name (SSID)	dlink			
Channel	36			
Data Rate	Auto			
Security	None			
Device Status				
CPU Utilization	4%			
Memory Utilization	56%			
Nuclias Connect				
Connection Status	Disconnect			
Server IP/PORT				
Group ID				

Client Information

This page displays the associated client's SSID, MAC, band, authentication method, signal strength, and power saving mode for the DAP-X3060 network.

Client Information:	This window displays the wireless client
	information for clients currently connected
	to the DAP-X3060.

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

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

WDS Information Page

This page displays the access point's SSID, MAC, band, authentication method, signal strength, and status for the DAP-X3060's Wireless Distribution System network.

WDS Information:	This window displays the Wireless Distribution
	System information for clients currently
	connected to the DAP-X3060.

- **Name:** Displays the SSID of the client.
- MAC: Displays the MAC address of the client.
- Authentication: Displays the type of authentication being used.
 - **Signal:** Displays the client's signal strength.
 - **Status:** Displays the status of the WDS link.

WDS I	nformat	ion		
WDS Info	rmation	Channel: 11 (2.462 GHz)		
Name	MAC	Authentication	Signal	Status
WDS Info	rmation	Channel: 149 (5.745 GHz)		
Name	MAC	Authentication	Signal	Status

Channel Analyze

Wireless Band: Select either 2.4Ghz or 5GHz.

- **Detect:** Click the Detect button to scan.
- AP List: This will list the transmitting channels and quality.

Channel Analyze		_	_	_
Wireless Band 2.4GHz V Detect Wireless Summary AP List]			
СН	AP Num	MRssi(%)	ARssi(%)	Evaluation

Statistics Ethernet Traffic Statistics

Displays wired interface network traffic information.

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

Ethernet Traffic Stati	stics	
		Clear Refresh
Transmitted Count		
Transmitted Packet Count	11,899	
Transmitted Bytes Count	4,202,475	
Dropped Packet Count	0	
Received Count		
Received Packet Count	36,057	
Received Bytes Count	10,852,705	
Dropped Packet Count	0	

WLAN Traffic Statistics

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

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

WLAN Traffic Statistics	_		
			Clear Refresh
	2.4GHz	5GHz	
Transmitted Count			
Transmitted Packet Count	0	0	
Transmitted Bytes Count	0	0	
Dropped Packet Count	0	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	0	0	
Received Decryption Error Count	0	0	
Received MIC Error Count	0	0	
Received PHY Error Count	899,266	1,895,467	

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 association with APs, and web login. The web page holds up to 500 logs.

View Log: The AP's embedded memory displays system and network messages including a time stamp and message type. The log information includes but is not limited to the following items: cold start AP, upgrading firmware, client association with APs, and web login. The web page holds up to 500 logs.

View Log			
First Page Last Page Previous Next Clear Page 1 of 3			
Time	Priority	Message	
Aug 20 18:06:25	[SYSACT]	Web login success from 192.168.0.102 with HTTP	
Aug 20 18:05:55	[SYSACT]	Web logout from 192.168.0.102 with HTTP	
Aug 20 18:02:49	[SYSACT]	Web login success from 192.168.0.102 with HTTP	
Aug 20 17:54:10	[SYSACT]	Web logout from 192.168.0.102 with HTTP	
Aug 20 17:51:00	[SYSACT]	Web login success from 192.168.0.102 with HTTP	
Aug 20 17:50:21	[SYSACT]	Web logout from 192.168.0.102 with HTTP	
Aug 20 17:47:20	[SYSACT]	Web login success from 192.168.0.102 with HTTP	
Aug 20 17:15:41	[SYSACT]	Web logout from 192.168.0.102 with HTTP	
Aug 20 17:12:43	[SYSACT]	Web login success from 192.168.0.102 with HTTP	
Aug 20 17:11:27	[SYSACT]	Web logout from 192.168.0.102 with HTTP	
Aug 20 17:08:24	[SYSACT]	Web login success from 192.168.0.102 with HTTP	
Aug 20 17:08:23	[SYSACT]	Web logout from 192.168.0.102 with HTTP	
Aug 20 17:07:08	[SYSACT]	Web logout from 192.168.0.102 with HTTP	
Aug 20 17:04:33	[SYSACT]	Web login success from 192.168.0.102 with HTTP	
Aug 20 17:03:43	[SYSACT]	Web login success from 192.168.0.102 with HTTP	
Aug 20 16:58:55	[SYSACT]	Web logout from 192.168.0.102 with HTTP	
Aug 20 16:54:38	[SYSACT]	Web login success from 192.168.0.102 with HTTP	
Aug 20 16:50:10	[SYSACT]	Web login failure from 192.168.0.102 with HTTP	
Aug 20 16:49:40	[SYSACT]	Web login failure from 192.168.0.102 with HTTP	
Aug 20 16:41:32	[SYSACT]	Web logout from 192.168.0.102 with HTTP	

Log Settings

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

Log Server/IP Address:	Enter the IP address of the server you would like to send the DAP-X3060 log to.	Log
Log Type:	Check the box for the type of activity you want to log. There are three types: System Activity, Wireless Activity, and Notice.	Log Se Log Se Log Ty
EU directive Syslog Server Settings:	Enter the IP address of the syslog server you would like to send the DAP-X3060 log to.	Exter Log Se Email Email M Outgoi
E-mail Notification:	Support Simple Mail Transfer Protocol for log schedule and periodical change key. It can not support Gmail SMTP port 465. Please set to Gmail SMTP port 25 or 587.	Auther SSL/TL From E To Email S SMTP I User N

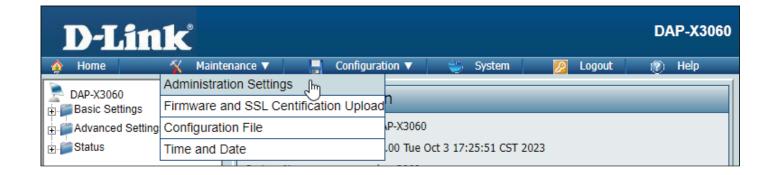
Log Settings		
Log Settings		
Log Server Settings Log Server / IP Address Log Type	System Activity Wireless Activity Notice	
External captive portal syslog Log Server / IP Address	server settings	
Email Notification		
Email Notification Outgoing mail server (SMTP) Authentication SSL/TLS From Email Address To Email Address Email Server Address SMTP Port User Name Password Confirm Password		
Email Log Schedule		
Schedule	0 v hours or when Log is full	Save

Section 3 - Configuration

	Click the drop-down menu to select the SMTP server type; options include: Internal, Gmail,Hotmail.
Authentication:	Check the box to enable the authentication of the email notification.
SSL/TLS:	Check the box to enable the SSL/TLS function.
From Email Address:	Enter the email address.
To Email Address:	Enter the email address.
Email Server Address:	Enter the email server address.
SMTP Port:	Enter the SMTP port.
User Name:	Enter the name of the new user entry.
Password:	Enter the password set for the email notification.
Confirm Password:	Retype the password entry to confirm the password.
E-mail Log Schedule:	Use the drop-down menu to set the email log schedule.
Save:	Click to save the updated configuration. To make the updates permanent, click Configuration > Save and Activate.

Maintenance Section

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 maintenance section in more detail.



Administration

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 VLAN Check the box provided and the

- **ID:** enter the specific VLAN ID that the administrator will be allowed to log in from.
- Limit Administrator IP: Check 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 the Add button.

Administration Settings				
Limit Administrator Limit Administrator VLAN I Limit Administrator IP IP Range			То	
Item	From	То	Delete	
System Name Settin	ngs 🗌			
Login Settings 🗖				
Console Settings 🗖	f.			
Ping Control Setting	y 🗖			
LED Settings 🗖				
DDP Control Setting	DDP Control Setting			
Country Settings				
Nuclias Connect Se	tting 🗖			
				Save

System Name Settings

Each of the eight main categories display various hidden administrator parameters and settings.

System Name:	The name of the device. The default name is dapx3060.
Location:	The physical location of the device, e.g. 72nd Floor, D-Link HQ.

MDNS Name : The MDNS name of the device. The default MDNS name is dapx3060.

System Name Settings 🗹	
System Name	dapx3060
Location	
MDNS Name	dapx3060

Login Settings

Each of the eight main categories display various hidden administrator parameters and settings.

Login Name: Enter a user name. The default is admin.

New Password: When changing your password, enter the new password here. The password is case-sensitive. "A" is a different character than "a." The length should be between 8 and 30 characters.

like to use, Telnet or SSH.

Login Settings 🗹		
Login Name	admin	
New Password		
Confirm Password		Apply New Password

3 Mins 🗸

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

Console Settings

Each of the eight main categories display various hidden administrator parameters and settings.

 Status:
 Status is enabled by default. Uncheck the box to disable the console.
 Console Settings ✓

 Console Protocol:
 Select the type of protocol you would
 ✓ Enable

Timeout

Time-out: Set to 1 Min, 3 Mins, 5 Mins, 10 Mins, 15 Mins or Never.

Ping Control Setting

Each of the eight main categories display various hidden administrator parameters and settings.

Status: Status is enabled by default. Uncheck the box to disable ping control.

Ping Control Setting 🗹	
Status	Enable

LED Settings

Each of the eight main categories display various hidden administrator parameters and settings

LED Status: Select the LED on/off you would like to use.

LED Settings 🗹		
LED Status	🔘 On	○ off

DDP Setting

Each of the eight main categories display various hidden administrator parameters and settings.

Status is enabled by default. Uncheck the DDP Control Setting 🗹 box to disable DDP control. Status Enable

Country Setting

Select a Country: Choose from drop down list country where device is located.

Country Settings 🗹			
Select a Country	United Kingdom	~	

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.

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

Nuclias Connect Setting 🖌		
Enable Nuclias Connect	Disable 🗸	

Firmware and SSL Upload

This page allows the user to perform a firmware upgrade. This upgrades the software running on the hardware 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.

Firmware and SSL	You can upload files to the access point.
Certification Upload:	

Upload Firmware from The current firmware version is displayed **Local Hard Drive:** above the file location field. After the latest firmware is downloaded, click on the "Choose File" button to locate the new firmware. Once the file is selected. click on the "Open" and "Upload" buttons 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 "Choose File." Select the language pack and click "Open" and "Upload" to complete the upgrade.

Upload SSL Certification After you have downloaded a SSL

from Local Hard Drive: certification to your local drive, click "Choose File." Select the certification and click "Open" and "Upload" to complete the upgrade.

Firmware and SSL Certification Upload		
Update Firmware From Local Hard Drive		
	Firmware Version v1.00	
Upload Firmware From File :	Choose File No file chosen Upload	
Language Pack Upgrade		
Upload :	Choose File No file chosen Upload	
Update SSL Certification From Local Hard Drive		
Upload Certificate From File :	Choose File No file chosen Upload	
Upload Key From File :	Choose File No file chosen Upload	

Configuration File Upload

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

Configuration File Upload and Download:	You can upload and download configuration files of the access point.
Upload Configuration File:	Browse to the saved configuration file you have in your local drive and click "Open" and "Upload" to update the configuration.
Download Configuration File:	Click "Download" to save the current configuration file to your local disk.
Upload Nuclias Connect Network File :	Browse to the saved Nuclias Connect Network file you have in your local drive and click "Open" and "Upload" to upload the Nuclias Connect Network file .

Configuration File Upload and Download		
Upload Configuration File		
Upload File :	Choose File No file chosen Upload	
Download Configuration File		
Load Settings to Local Hard Drive	Download	
Upload Nuclias Connect Network	File	
Upload File :	Choose File No file chosen 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 settings.	
Enable NTP Server:	Check to enable the AP to get system time from an NTP server from the Internet.	
NTP Server:	Enter the NTP server IP address.	E
Time Zone:	Use the drop-down menu to select your correct Time Zone.	
Enable Daylight Saving:	Check the box to enable Daylight Saving Time.	E C
	A user can either manually set the time for the AP here, or click the Copy Your Computer's Time Settings button to copy the time from the computer in use (Make	C

sure that the computer's time is set correctly).

Time and Date	Settings	-	-	-	_	-
Time Configuration	1					
Current Time	08/23/2021	18:06:24				
Automatic Time Co	nfiguration					
Enable NTP						
NTP Server						
Time Zone	(GMT+08:0	0) Kuala L	umpur, Sin	gapore		~
Set the Date and Ti	me Manual	ly				
Date And Time	Year 2021		Month	Aug 🗸	Day	23 🗸
	Hour 18 🗸) (1inute 6	~	Second 25	~
	Copy your	computer's	s Time Sett	ings		
Daylight Configura	tion					
Enable Daylight Saving Daylight Saving Offset	15 🗸					
Daylight Saving Dates		Month	Week	Day	Hour	Minute
	DST Start	Jan 🗸	1st 🗸	Sun 🗸	12 am 💙	0 🗸
	DST End	Jan 🗸	1st 🗸	Sun 🗸	12 am 🗸	0 🗸
					C	Save

Configuration and System

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

D-L	ink			D	AP-X3060
🏠 Home	🕺 Maintenance 👻	🚽 Configuration 👻	👙 System	💋 Logout	🕐 Help
		+		+	
		🚽 Configuration 👻	yster	n 🔤 — 🗾 🖉	Logout
		Save and Activate Discard Changes 5		e current browser cor disconnected if you c	

System Settings

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

Restart the Device:	Click Restart to restart the DAP-X3060.
	Click Restore to restore the DAP-X3060 back to factory default settings.
	see to the second se

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

System Settings	
Restart the Device	Restart
Restore to Factory Default Settings	Restore
Clear Language Pack	Clear

Help

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

Help:	Scroll down the Help page for topics and
	explanations.

Basic Settings

Wireless

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/ for 5GHz. Configure Auto 20/40/80 MHz for 802.11ac and non 802.11ac wireless devices, and Mixed 802.11a/ 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.

Authentication

Open System is the default authentication mode. Choose Data Encryption Mode to enable encryption.

0,010,010

Open System All devices are allowed to access the Access Point.

Shared Key

Users must use the same WEP Share Key to access the Access Point on this network.

Technical Specifications

Standards

- IEEE 802.11ax
- IEEE 802.11ac
- IEEE 802.11n
- IEEE 802.11g
- IEEE 802.11a
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.3at
- IEEE 802.3x

Network Management

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

Security

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

Wireless Frequency Range

• 2.4 to 2.4835 GHz and 5.15 to 5.85 GHz

Operating Voltage

• 12V/2.5A or 802.3at PoE

Antenna Type

- Two Dual Band Internal Antennas (2.4Ghz 3dBi & 5Ghz 3dBi) LEDs
- Power/Status

Temperature

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

Humidity

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

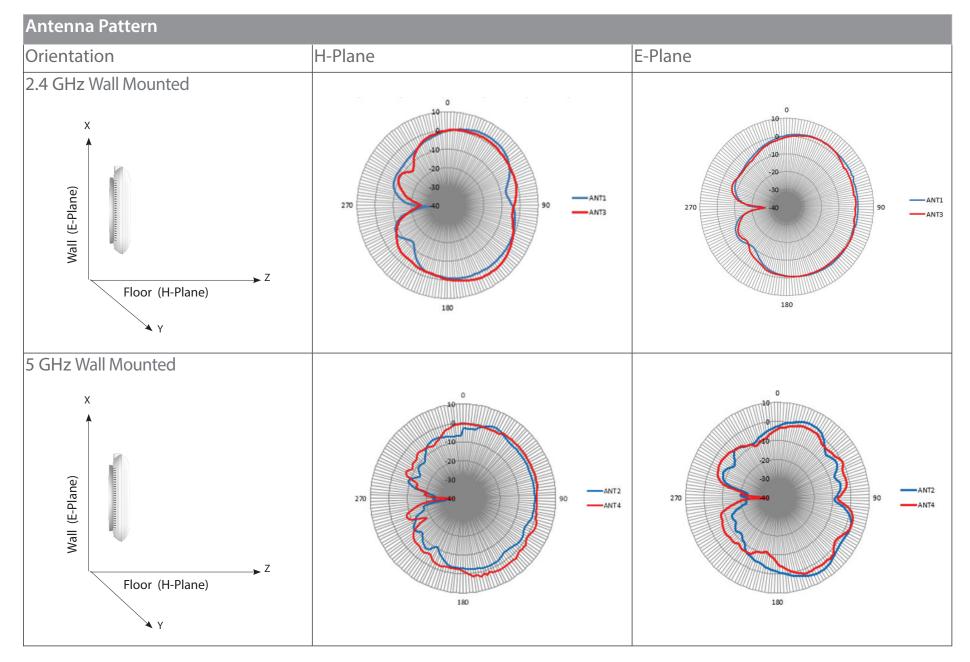
Certifications

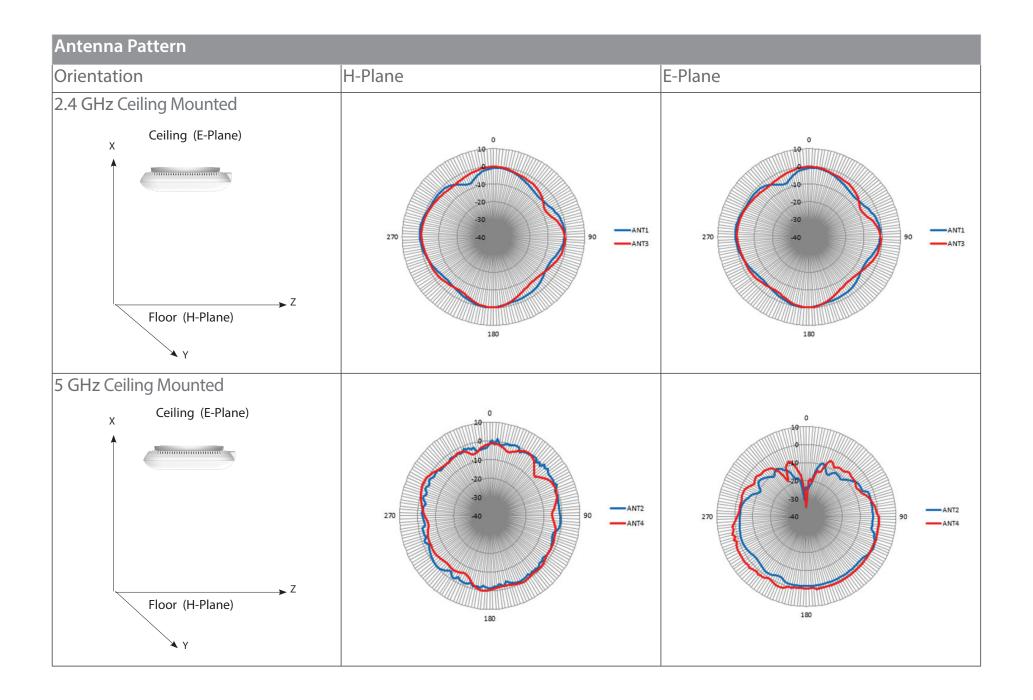
- FCC
- CE
- IC
- RCM
- LVD

Dimensions

- L = 190 mm
- W = 190mm
- H = 42.8 mm

Antenna Pattern





Regulatory Statements

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Non-modifications Statement:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Caution:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures. For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

Note

The country code selection is for non-USA models only and is not available to all USA models. Per FCC regulations, all WiFi product marketed in the USA must be fixed to USA operational channels only.

RF Frequency Requirements

This device is for indoor use only when using all channels in the 5.15 to 5.25 GHz frequency range. High power radars are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and/or damage this device. This device will not operate on channels which overlap the 5600-5650 MHz band.

It is restricted to indoor environments only.

IMPORTANT NOTICE:

Innovation, Science and Economic Development Canada (ISED) Statement:

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Innovation, Science and Economic Development Canada (ISED) Statement:

This device complies with ISED licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

(i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

(i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

Operations in the 5.25-5.35 GHz band are restricted to indoor usage only.

Les opérations dans la bande de 5.25-5.35 GHz sont limités à un usage intérieur seulement.

Radiation Exposure Statement

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0.2 m between the radiator and your body.

Déclaration d'exposition aux radiations

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 0.2 m de distance entre la source de rayonnement et votre corps.

Japan Voluntary Control Council for Interference Statement

この装置は、クラス B情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

Japan Voluntary Control Council for Interference Statement

This is a Class B product based on the standard of the VCCI Council. If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

電波法により5GHz帯は屋内使用に限ります。

Product and Warranty Information

To find out more about D-Link Nuclias product or marketing information, please visit the website http://www.dlink.com or https://www.nuclias. com.

The D-Link Limited Lifetime Warranty information is available at http://www.dlink.com/warranty

VCCI-B

Power Usage

This device is an Energy Related Product (ErP) with High Network Availability (HiNA), and automatically switches to a power-saving Network Standby mode within 1 minute of no packets being transmitted.

Network Standby: 6.6 watts