CENTRALIZED SOFTWARE-BASED NETWORK MANAGEMENT

Nuclias Connect is an intuitive network management solution for SMBs seeking a flexible, hands-on approach to their infrastructure and user data. It's Network Management, Refreshed

Built For...

- SMBs
- Retail Chains
- Hospitality
- Education

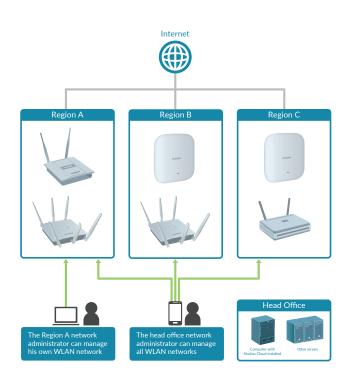




Enter Nuclias Connect

Welcome to the solution guide for Nuclias Connect, 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.

Deployable on a Windows server (or Linux via Docker), PC, or Smartphone (via lite management app) the Nuclias Connect free-to-download software is capable of managing up to 1,000 Access Points (APs) without licensing charges, coupled with an inexpensive optional hardware controller (The Hub) suitable for remote locations.



Through software-based monitoring and remote management of all wireless Access Points (APs) on your network, Nuclias Connect offers tremendous flexibility compared to traditional hardware-based unified management systems. Configuration can be done remotely. Network traffic analytics are available at a glance (in whole or in part). Load Balancing, Airtime Fairness, and Localized Throttling are enabled.

Why Nuclias Connect?

Nuclias Connect is designed to meet the specific needs of SMBs looking to...

- » Minimize network administration burden and costs.
- Carry out Digital Transformation initiatives without unduly adding to their network administration workload.
- » Provide a robust and seamless Guest/Public Wi-Fi experience for users on par with what Enterprises can offer.

Who Needs Nuclias Connect?

SMBs

 » Offers a robust yet affordable foundation for Digital Transformation initiatives.

Retail Chains

» Provides analytics that translate into customer behavioral insights.

Hospitality

» Helps transform your operations and provide a premium-grade Wi-Fi experience for customers.

Education

 Offers robust Wi-Fi capability and fine-grained management control, affordably.



Why You Want It

Nuclias Connect gives you the financial and technical flexibility to expand from a small network to a larger one (up to 1,000 APs), while retaining a robust and centralized management system. And with its intuitive Graphical User Interface (GUI), a wealth of enhanced AP features, and a setup wizard that supports 11 languages, Nuclias Connect minimizes the hassle of deployment, configuration, and administration tasks, with the key benefits falling into these areas:

Value

Nuclias Connect is a tremendous value. Its Access Points (APs) are license-free. Its management software is free to download to any compatible PC, and is backwards-compatible with a number of D-Link APs, and its dedicated hardware controller is inexpensive, all while providing a comprehensive set of technical features that reduce admin costs, and that are suitable for most SMB networking activities.

Benefits to You

- » Management software can be installed on as many terminals as you want.
- » Less costly network expansion thanks to centralized configuration and license-free Access Points (up to 1,000 APs).
- » Less costly network administration thanks to easy intuitive free-to-download software.

Flexibility

Nuclias Connect offers the flexibility to thrive in a variety of deployment scenarios, business needs, and use cases. The solution can utilize legacy equipment if needed (PCs and select access points), or be implemented as a total solution. A wide variety of Access Points are available for various conditions and price points. And the management software is customizable, and enables control and analytics of a broad or fine granularity – and presentation in a variety of formats.

Benefits to You

- » Suited to deployments with varied conditions on the ground.
- » Network can be managed from anywhere with an Internet connection.
- » Public Wi-Fi Login can be customized with your logo.
- » Display, analytics, reporting, and management can be customized in a variety of ways for utility or convenience.
- » Multiple tenants can manage through the software.





Real-Time Analytics & Automated Reporting

Nuclias Connect enables an extensive understanding of your network and its users through traffic analytics and status reports, which can be viewed at a glance. Insights derived from this traffic data can be used to create business value. Traffic can be viewed across the entire network, to the level of a single AP.

Benefits to You

- » Gain visibility into the network to substantiate traffic to evaluate capacity and growth.
- Analytics provide actionable intelligence whereby businesses can take appropriate actions.
- » Spot irregularities.
- » Gain insights into customers/users.
- » Easier troubleshooting.

Ease-of-Use

Nuclias Connect's centralized management capabilities, easy setup, and intuitive dashboard functionality make life easier for network administrators, while its functionality makes life easier for network users.

Benefits to You

- » Customization features mean less need to "dig around" inside the software.
- » Convenient access from anywhere with Internet connectivity.
- » Centralized configuration reduces the chance of error.
- » Batch configuration, automated network management & reporting, and searchable & auditable Event and Change logs save time.
- » Diverse authentication options (Captive Portal, RADIUS Server, POP3, LDAP, AD) save effort.

Benefits to Guest Users

- » Payment Gateway Integration with the Captive Portal.
- » Airtime Fairness & Load Balancing to ensure service integrity.
- » Front-desk Ticket Management for greater convenience.

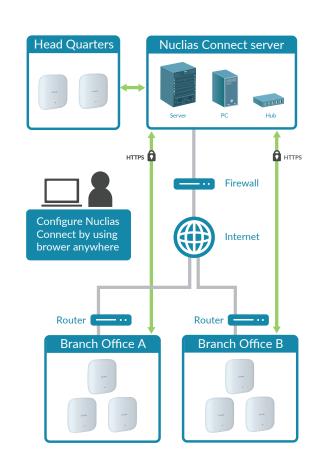


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Security & Privacy

Nuclias Connect is designed for businesses where concerns about security and privacy are paramount. All communications over Nuclias Connect are encrypted. User data never leaves your possession. And additional security measures (such as firewalls) can be added without undue difficulty.

Benefits to You

- » End-to-End encryption.
- » User data remains private.
- » Security add-ons are no problem.



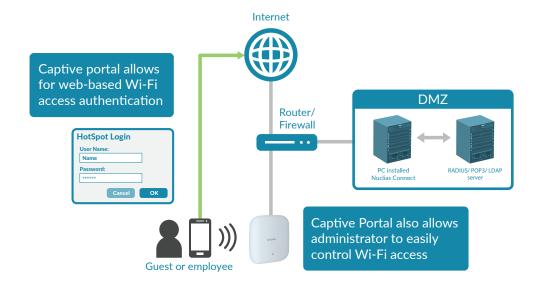
Nuclias Connect For Admins

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

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

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

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



Key Features



Backwards-Compatibility



Intuitive Interface



Inexpensive Hardware Controller

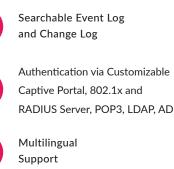




Remote Config. & Batch Config.



Multi-Tenant & Role-Based Administration



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Payment Gateway (Paypal) Integration and Front-Desk **Ticket Management**



Technical Specifications

WLAN Management		
Maximum APs per Device (Controller)	1000 ¹ (large scale installations) 100 ¹ (small scale installaions)	
WLAN Management Features	 AP grouping Multi-tenancy Visualized topology NAT pass-through Setup wizard AP discovery (layer 2 and layer 3) Report system 	
User Authentication		
Guest Portal	Captive portal	
Authentication Method	 Local POP3 RADIUS LDAP Voucher 	
Hotspot Features	 Built-in support for voucher-based authentication Built-in hotspot manager for voucher creation and guest management Rate limiting and bandwidth control for guest and hotspot portal 	
Wireless Features		
RF Management and Control	 Auto Output Power Control Auto Channel Self-healing around failed APs 	
Multiple SSIDs per Radio(AP)	8	
Advanced Wireless Features	 Band steering L2 roaming Bandwidth optimization Airtime fairness 	
System Management		
Management Interface	Web-based user interface (HTTPS)	
Minimum System Requirements	Computer running Microsoft Windows 10 or server 2016 (64 bit)	
Scheduling	Firmware update Configuration update	
Order Information		
Part Number	Description	
DNC-100	Nuclias Connect	

¹ Number of wireless access points supported depends on the specification of the computer on which DNC is installed. To support 1000 APs, a computer with at least an Intel Core i7 with 16 GB RAM and 4 TB hard drive, and 20 Mbps uplink bandwith is recommended. To support 100 APs, a computer with at least an Intel Core i5 3.2GHz with 8 GB RAM and 2 TB hard drive, and 10 Mbps uplink bandwith is recommended.

Updated 10/04/19



Nuclias Connect Device Compatibility*

Nuclias Connect Supported Wireless Access Points					
Model	DAP-2230	DAP-2310	DAP-2360	DAP-2610	DAP-2620
Environment	Indoor	Indoor	Indoor	Indoor	Indoor
Product Image	D-Link -			D-ilmk	
H/W Version	Ax	Bx	Bx	Ax	Ax
IEEE Standard	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11a/b/g/n/ac	802.11 a/b/g/n/ac
2.4 GHz Speed	300 Mbps	300 Mbps	300 Mbps	400 Mbps	300 Mbps
5 GHz Speed	-	-	-	867 Mbps	867 Mbps
Number of SSIDs	8	8	8	16 (8 per radio)	16 (8 per radio)
Ethernet Interface	1 x Fast Ethernet	1 x Gigabit Ethernet	1 x Gigabit Ethernet	1 x Gigabit Ethernet	2 x Gigabit Ethernet
PoE	802.3af	802.3af	802.3af	802.3af	802.3af
Max Tx Power	2.4 GHz: 27 dBm	2.4 GHz: 26 dBm	2.4 GHz: 26 dBm	2.4 GHz: 23 dBm 5 GHz: 23 dBm	2.4 GHz: 23 dBm 5 GHz: 23 dBm
Antenna Type	Internal	External	External	Internal	Internal
Antenna Gain	2.4 GHz: 3 dBi	2.4 GHz: 2 dBi	2.4 GHz: 5 dBi	2.4 GHz: 3 dBi 5 GHz: 3 dBi	2.4 GHz: 2 dBi 5 GHz: 2 dBi
Mounting Type	Ceiling/Wall/ Desktop	Wall/Desktop	Wall/Desktop	Ceiling/Wall/ Desktop	Wall Plate
Security Lock	Yes	No	Yes	Yes	Yes

* Please contact your local D-Link office for availability.



Nuclias Connect Device Compatibility*

Nuclias Connect Supported Wireless Access Points					
Model	DAP-2660	DAP-2662	DAP-2680	DAP-2682	DAP-2695
Environment	Indoor	Indoor	Indoor	Indoor	Indoor
Product Image	D-link	D-Link	Dilate	D-Link	
H/W Version	Ax	Ax	Ax	Ax	Ax
IEEE Standard	802.11a/b/g/n/ac	802.11a/b/g/n/ac	802.11a/b/g/n/ac	802.11a/b/g/n/ac	802.11a/b/ g/n/ac
2.4 GHz Speed	300 Mbps	300 Mbps	450 Mbps	600 Mbps	450 Mbps
5 GHz Speed	867 Mbps	867 Mbps	1300 Mbps	1732 Mbps	1300 Mbps
Number of SSIDs	16 (8 per radio)	16 (8 per radio)	16 (8 per radio)	16 (8 per radio)	16 (8 per radio)
Ethernet Interface	1 x Gigabit Ethernet	1 x Gigabit Ethernet	1 x Gigabit Ethernet	2 x Gigabit Ethernet	2 x Gigabit Ethernet
PoE	802.3af	802.3af	802.3at	802.3at	802.3at
Max Tx Power	2.4 GHz: 26 dBm 5 GHz: 26 dBm	2.4 GHz: 26 dBm 5 GHz: 26 dBm	2.4 GHz: 26.5 dBm 5 GHz: 26.5 dBm	2.4 GHz: 23 dBm 5 GHz: 23 dBm	2.4 GHz: 27.5 dBm 5 GHz: 27.5 dBm
Antenna Type	Internal	Internal	Internal	Internal	External
Antenna Gain	2.4 GHz: 3 dBi 5 GHz: 4 dBi	2.4 GHz: 3.8 dBi 5 GHz: 3.8 dBi	2.4 GHz: 3.6dBi 5 GHz: 4.2 dBi	2.4 GHz: 2 dBi 5 GHz: 2 dBi	2.4 GHz: 4 dBi 5 GHz: 6 dBi
Mounting Type	Ceiling/Wall/ Desktop	Ceiling/Wall/ Desktop	Ceiling/Wall/ Desktop	Ceiling/Wall/ Desktop	Wall/ Desktop
Security Lock	Yes	Yes	Yes	Yes	Yes

* Please contact your local D-Link office for availability.



Nuclias Connect Device Compatibility*

Nuclias Connect Supported Wireless Access Points					
Model	DAP-3662	DAP-3666			
Environment	Outdoor	Outdoor			
Product Image	Džink	Dlink			
H/W Version	Ax	Ax			
IEEE Standard	802.11a/b/g/n/ac	802.11a/b/g/n/ac			
2.4 GHz Speed	300 Mbps	300 Mbps			
5 GHz Speed	867 Mbps	867 Mbps			
Number of SSIDs	16 (8 per radio)	16 (8 per radio)			
Ethernet Interface	2 x Gigabit Ethernet	2 x Gigabit Ethernet			
PoE	802.3af	802.3af			
Max Tx Power	2.4 GHz: 26 dBm 5 GHz: 26 dBm	2.4 GHz: 26 dBm 5 GHz: 26 dBm			
Antenna Type	Internal	Internal			
Antenna Gain	2.4 GHz: 6 dBi 5 GHz: 6 dBi	2.4 GHz: 6 dBi 5 GHz: 6 dBi			
Mounting Type	Pole	Pole			
Security Lock	Yes Yes				

* Please contact your local D-Link office for availability.