COMPLETE CLOUD-MANAGED NETWORKING SOLUTION

Nuclias Cloud is an end-to-end Cloud-Managed Wi-Fi Infrastructure solution for SMBs seeking professional-grade networking without hassle.

It’s Cloud Networking, Refreshed

Built For...
- SMBs
- Retail Chains
- Hospitality
- Education
Enter Nuclias Cloud

Welcome to the solution guide for Nuclias Cloud, D-Link’s complete Cloud-Managed Wireless LAN (Wi-Fi) Networking Solution for Small-to-Medium-Sized Businesses (SMBs). Nuclias Cloud is designed to help SMBs make the transition from unmanaged consumer-grade equipment to a managed professional-grade solution as easy, effortless, and worry-free as possible, by eliminating the learning curve, and guaranteeing reliability, so that you can get on with your business. It’s Wi-Fi that doesn’t draw attention to itself, and just works.

Why Nuclias Cloud?

Seamless reliable connectivity has become mission-critical to the modern business model. But with wireless devices, online transactions, Cloud applications, ransomware attacks, and other security threats all proliferating, SMBs can no longer run the risk of “winging it” with unmanaged Wi-Fi anymore. They need professional-grade Wi-Fi that ensures minimal downtime, and maximizes what your business can do.

Nuclias Cloud removes the technical barriers to obtaining such a network through...

» Do-it-yourself (DIY) installation and operation.
» Remote management of your entire network.
» Robust automation with minimal downtime.

What is Nuclias Cloud?

Nuclias Cloud is a complete managed Wi-Fi networking solution where network devices such as Access Points and Switches are controlled through the Nuclias Cloud Management Platform, accessible via Web Portal or lite management app. Monitoring and management tasks can be carried out through the platform for any device, site, or network anywhere in the world, with multi-tenancy enabled, and device scalability unlimited.

The Nuclias Cloud platform also delivers configuration settings to newly-installed or replacement network devices, enabling a Zero-Touch Deployment process that requires no IT personnel onsite. Simply plug in a device, let the configuration settings download from the Cloud, and it’s operational — it’s that simple.
Who Needs Nuclias Cloud?

SMBs
It delivers the technical capability & network reliability SMBs need to fully embrace Digital Transformation, the Internet of Things (IoT), and Cloud Operations, without the need for new IT networking skills.

Hospitality
It helps smaller hotels, restaurants, and coffee shops minimize Wi-Fi-related complaints, while enabling a seamless branded Guest Wi-Fi experience on par with more established competitors.

Retail Chains
It enables easy remote management and troubleshooting across multiple sites, easy addition of new sites, and timely analytics & reporting that can help you get to know your customers.

Education
It offers robust Wi-Fi capability, easy management of all network sites, fine-grained network monitoring and control, and an OPEX-oriented pricing model suited to schools and other institutions.

Nuclias Cloud for MSPs
Nuclias Cloud is a true Cloud Management solution that enables rapid device installation and easy remote multisite management and troubleshooting, which greatly reduces the amount of time Managed Service Provider (MSP) staff need to spend onsite, while making it very easy for Enterprise Resellers to move upmarket into the MSP model.
What Nuclias Cloud Delivers

Nuclias Cloud combines professional-grade Wi-Fi network capabilities with consumer-grade ease of use. Robust automation, customization, connectivity and reliability minimize the time you’ll need to spend on the Nuclias Cloud Platform, which is simple and intuitive. There are no special skills required to install devices, carry out management tasks, or enjoy the benefits that Nuclias Cloud has to offer. It’s professional-grade networking, without the need for networking professionals.

1 / End-to-End Solution

Nuclias Cloud is a complete WLAN infrastructure solution that provides end-to-end control over every Access Point, every Switch, and every Site on your Cloud-Managed network, with compatible devices available with a variety of capabilities & price points. It is also a business solution comprised of a variety of tools (Airtime Fairness, Customizable Captive Portal, Front-Desk Ticket Management) that enable a branded Wi-Fi experience for SMBs on par with larger competitors, with analytics providing an opportunity to know your customers better.

Benefits to You

» No need for piecemeal purchases.
» Minimal need for in-house IT skills.
» Easy network management outsourcing.
» Seamless branded Wi-Fi with fewer complaints.

2 / Cloud Management

Managing a network from the Cloud brings tremendous advantages in terms of control and convenience. There are no technical limits to the numbers of sites and devices. No need for specialized management hardware or software. And with Nuclias Cloud’s Zero-Touch Deployment capabilities, there’s no need to carry out repetitive configuration tasks onsite. Network administrators can access the platform and carry out their various tasks from literally anywhere with an online connection, with no need for complex dedicated software.

Benefits to You

» Zero-Touch Deployment.
» Unlimited Scalability.
» Easy multi-site management.
» Less chance of configuration error.
3 / In-Depth Analytics & Automated Reporting

Nuclias Cloud enables an extensive understanding of your network and its users through timely traffic analytics and status reports, which can be automated. 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 device.

Benefits to You
- Easy determination of trends & patterns, which can be used to guide marketing and purchasing decisions.
- Spot irregularities before they become problems, and detect possible cyberthreats.
- Easier troubleshooting.

4 / Peace-of-Mind

SMBs already have plenty to worry about, and the Wi-Fi shouldn't be one of them. Our Cloud Platform carries a 99.9% Service-Level Agreement (SLA), with standalone operational backup in place for your network devices, and End-to-End Encryption (WPA2/WPA3) in place for your security. Robust automation capabilities are also enabled, whether it comes to network parameters, alerting & reporting, firmware updates, and much more.

Benefits to You
- Minimal downtime.
- Robust data encryption.
- Less attention needed for your infrastructure.

5 / Ease-of-Use

Nuclias Cloud has an intuitive customizable interface that's designed to minimize the time it takes to carry out tasks, while enabling an at-a-glance understanding of what's happening on your network. Batch Configuration, Multi-tenancy, and Multilingual Support make life easier for administrators, while Social Login, Airtime Fairness, and Priority Bandwidth make life easier for users.

Benefits to You
- At-a-glance understanding of network status.
- Less time spent on repetitive tasks.
- Automated reporting available.
- Better user experience.
Nuclias Cloud for Admins

Nuclias Cloud 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 AP), administrators have the option of using one SSID to create a guest network for visitors.

Nuclias Cloud 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 minimal effort, which can be applied as needed to groups or individual APs for even more effective configuration.

Since Nuclias Cloud operates transparently, 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 Cloud 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 Customizable Captive Portal or Wi-Fi Hotspot.

Key Features

- Intuitive Interface
- Cloud Multisite Management
- WPA2/WPA3 Encryption
- Zero-Touch Deployment
- Automated Monitoring & Alerts
- Role-Based Administration
- Multilingual Support
- NAT mode & DHCP Server Support
- 99.9% Service-Level Agreement (SLA)
- Unlimited Scalability
- Over-the-Air Firmware Upgrades
- Traffic Reporting & Analytics
## Nuclias Cloud: Compatible Devices*

– Cloud-Managed Access Points

<table>
<thead>
<tr>
<th>Model</th>
<th>DBA-1510P</th>
<th>DBA-1210P</th>
<th>DBA-2520P</th>
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<th>DBA-2720P</th>
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### General

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<tr>
<th>Environment</th>
<th>Indoor</th>
<th>Indoor</th>
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<tr>
<td>IEEE Standard</td>
<td>IEEE 802.11a/b/g/n/ac</td>
<td>IEEE 802.11a/b/g/n/ac Wave 2</td>
<td>IEEE 802.11a/b/g/n/ac Wave 2</td>
<td>IEEE 802.11a/b/g/n/ac Wave 2</td>
<td>IEEE 802.11a/b/g/n/ac Wave 2</td>
<td>IEEE 802.11a/b/g/n/ac Wave 2</td>
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<tr>
<td>2.4 GHz Speed</td>
<td>450Mbps</td>
<td>400Mbps</td>
<td>600Mbps</td>
<td>400Mbps</td>
<td>400Mbps</td>
<td>800Mbps</td>
</tr>
<tr>
<td>5 GHz Speed</td>
<td>1300Mbps</td>
<td>867Mbps</td>
<td>1299Mbps</td>
<td>867Mbps</td>
<td>867Mbps+1733Mbps</td>
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### Functionality

<table>
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<tr>
<th>Number of SSIDs</th>
<th>16 per device 8 per band</th>
<th>16 per device 8 per band</th>
<th>16 per device 8 per band</th>
<th>16 per device 8 per band</th>
<th>24 per device 8 per band</th>
<th>16 per device 8 per band</th>
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### PoE

<table>
<thead>
<tr>
<th>PoE Budget</th>
<th>802.3at</th>
<th>802.3af</th>
<th>802.3at</th>
<th>802.3at</th>
<th>802.3at</th>
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### Physical

<table>
<thead>
<tr>
<th>Ethernet Interface</th>
<th>1 x 10/100/1000 Ethernet port with PoE</th>
<th>1 x 10/100/1000 Ethernet port</th>
<th>2 x 10/100/1000 Ethernet ports</th>
<th>2 x 10/100/1000 Ethernet ports</th>
<th>2 x 10/100/1000 Ethernet ports</th>
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### Technical Specification

<table>
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<tr>
<th>Max Output Power</th>
<th>2.4GHz: 15dBm 5GHz: 15dBm</th>
<th>2.4GHz: 20dBm 5GHz: 20dBm</th>
<th>2.4GHz: 25dBm 5GHz: 25dBm</th>
<th>2.4GHz: 26dBm 5GHz: 26dBm</th>
<th>2.4GHz: 26dBm 5GHz: 26dBm</th>
<th>2.4GHz: 26dBm 5GHz: 26dBm</th>
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<tr>
<td>Antenna</td>
<td>Internal Omnidirectional</td>
<td>Internal Omnidirectional</td>
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<td>Internal Omnidirectional</td>
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<tr>
<td>Mounting Type</td>
<td>Ceiling/Wall/Desktop</td>
<td>Ceiling/Wall/Desktop</td>
<td>Ceiling/Wall/Desktop</td>
<td>Ceiling/Wall/Desktop</td>
<td>Ceiling/Wall/Desktop</td>
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<tr>
<td>Security Lock</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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*Please contact your local D-Link office for availability.
## Nuclias Cloud: Compatible Devices*

*Cloud-Managed Switches*

<table>
<thead>
<tr>
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<td>Hardware Version</td>
<td>A1</td>
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<tr>
<td>Number of Ports</td>
<td>• 8 x 10/100/1000 Mbps PoE 2 x SFP 100/1000 Mbps</td>
<td>• 24 x 10/100/1000 Mbps 4 x Combo 1000 Mbps/ SFP</td>
<td>• 24 x 10/100/1000 Mbps PoE 4 x Combo 1000 Mbps/ SFP</td>
<td>• 24 x 10/100/1000 Mbps PoE 4 x Combo 1000 Mbps/ SFP</td>
<td>• 48 x 10/100/1000 Mbps PoE 4 x Combo 1000 Mbps/ SFP</td>
<td>• 48 x 10/100/1000 Mbps PoE 4 x Combo 1000 Mbps/ SFP</td>
</tr>
<tr>
<td>Performance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Switch Capacity</td>
<td>20Gbps</td>
<td>56Gbps</td>
<td>56Gbps</td>
<td>56Gbps</td>
<td>104Gbps</td>
<td>104Gbps</td>
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<tr>
<td>Max. Packet Forwarding Rate</td>
<td>14.88Mpps</td>
<td>41.7Mpps</td>
<td>41.7Mpps</td>
<td>41.7Mpps</td>
<td>77.4Mpps</td>
<td>77.4Mpps</td>
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<tr>
<td>PoE Budget</td>
<td>• 130W 30W max. per port</td>
<td>—</td>
<td>• 370W 30W max. per port</td>
<td>• 193W 30W max. per port</td>
<td>—</td>
<td>• 370W 30W max. per port</td>
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<tr>
<td>Technical Specification</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Maximum Heat Dissipation</td>
<td>519.51 BTU/hr</td>
<td>59.09 BTU/hr</td>
<td>1521.99 BTU/hr</td>
<td>900.36 BTU/hr</td>
<td>118.92 BTU/hr</td>
<td>1634.01 BTU/hr</td>
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<tr>
<td>Maximum Power Consumption</td>
<td>• 152.3W (PoE on) 9.4W (PoE off)</td>
<td>• 17.32W</td>
<td>• 446.1W (PoE on) 29.8W (PoE off)</td>
<td>• 263.9W (PoE on) 30.6W (PoE off)</td>
<td>• 34.85W</td>
<td>• 478.9W (PoE on) 54.4W (PoE off)</td>
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