nuclias
Networking, refreshed.

Nuclias by D-Link

is a complete cloud-managed networking solution for small to medium-sized organisations with one or more sites.

Simpler to install and **easier to manage**

How it works

Wi-Fi coverage and network capacity are provided by high-performance Access Points and Managed Switches deployed on site, while configuration and ongoing management can be carried out remotely through a web browser or tablet.

Zero-touch provisioning and centralised cloud-based control make the network simpler to install and easier to manage.

With Nuclias, network configurations and software updates are pushed to remote devices through the cloud, without the need to have specialised equipment or personnel onsite.

SSL encrypted, out-of-band network monitoring and management ensures secure connectivity whilst minimising bandwidth requirement.

www.dlink.com/nuclias

What makes Nuclias

Nuclias offers enterprise-grade high-performance Wi-Fi access points and high-speed Gigabit managed switches without the complexity or upfront investment. This means that it can be deployed and managed without additional training and comes at a lower cost.

Designed to be managed through the D-Link Nuclias Cloud Management, devices can be easily set up through the web-browser portal or the Nuclias mobile app for tablets. Zero-touch provisioning means devices can be deployed at remote locations without an on-site network administrator. With D-Link Nuclias, businesses can now more effectively organise their entire wireless and wired network and monitor live network statistics.

Who is it for?

Nuclias is an ideal solution for organisations that:

- Need reliable wireless network connectivity at one or more sites
- Depend on an increasing number of connected devices and apps
- Want to ensure employees can safely use their own devices
- Need to ensure security – especially at remote offices
- Would like to easily provide visitor Wi-Fi access
- Have limited in-house IT resources or actively want to outsource

Unlimited scalability
of supported APs

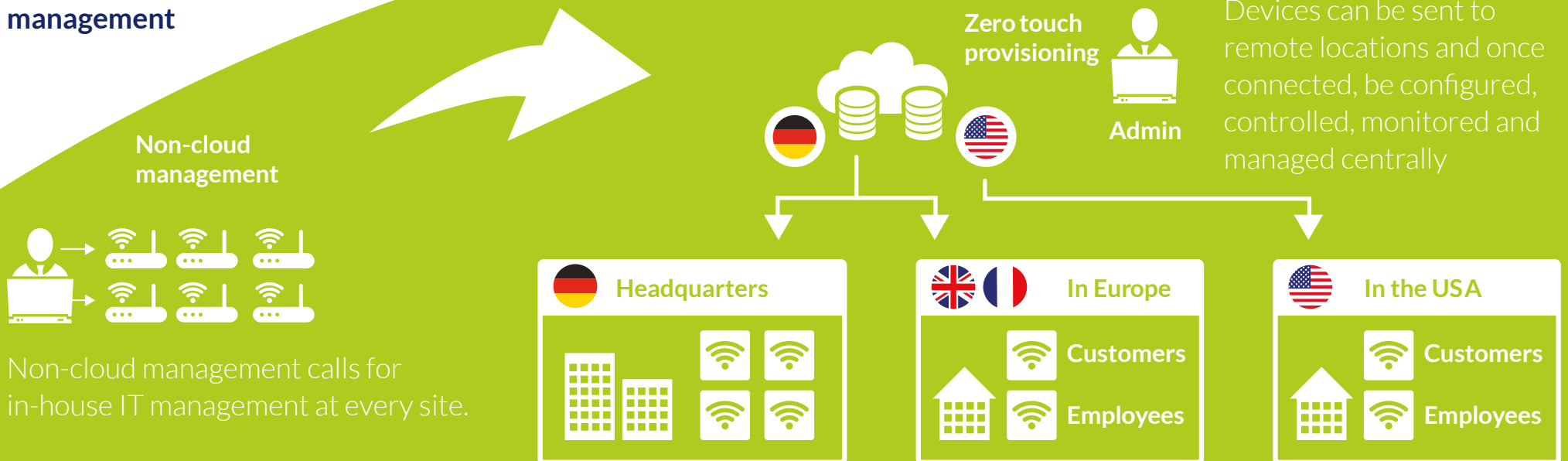**Efficient centralised**
cloud-based
management

Reliability assured

Nuclias is built on a tried and trusted cloud platform, with over 5 million cloud managed devices already connected. It features high availability with 24/7 automated failure detection and cross time zone support with rapid escalation across multiple teams. Performance is optimised by servers that automatically scale to meet performance demands.

With Nuclias, user internet traffic does not pass through the cloud, compliant with the latest data protection and privacy regulations. Security is assured with out-of-band, SSL-encrypted management plane backed with 99.99% uptime service level agreement.

Over 5 million connected devices on D-Link's cloud platform

How Nuclias modernises network management

Centralised cloud-based management

Zero touch provisioning

Admin

Devices can be sent to remote locations and once connected, be configured, controlled, monitored and managed centrally

Non-cloud management

Non-cloud management calls for in-house IT management at every site.

Headquarters

In Europe

Customers

Employees

In the USA

Customers

Employees

Main features

- Zero-touch provisioning
- Role-based administration
- Auditable change logs
- Authentication via customisable captive portal, 802.1x and RADIUS server
- Social login for Wi-Fi access supported
- Advanced traffic report and data analysis
- Intuitive web-based interface with multilingual support
- Automatic monitoring and alerts
- Over-the-web firmware upgrades
- Searchable network-wide event log
- Intuitive VLAN Configuration
- Cloud based RF Optimisation

Reporting
and analytics

Pay-as-you grow
Subscription

Zero-touch
provisioning

Cost reduction

There is less infrastructure, as Wi-Fi reduces cabling and Nuclias uses controller-less architecture. Also, cloud-based management cuts the cost of deployment and ongoing management.

Transparent pricing

Nuclias offers straightforward, high quality connectivity with transparent pricing. Unlike other solutions in this category, there are no extra feature licenses to buy and prices aren't based on number of users.

Instead, there is a simple annual cost based on the number of Access Points deployed. So there's no need to over provision. You only pay for what you need, with the ability to scale back or expand, in line with business demand.

- All access points and switches can be purchased with a **1** or **3** year license included

- Businesses can decide to purchase additional **1**, **3** or **5** year license thereafter

Cloud-based management **cuts the cost of deployment**
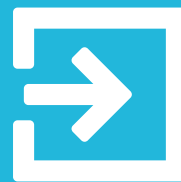
Simple deployment

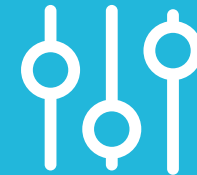Deployment is as straight forward as **Connect. Activate. Provision.**

1. Connect

Mount the first Access Point and plug it in to an existing powered switch.

2. Activate

Import to e-inventory and add to your account.

3. Provision

Configure devices by selecting UID, Profile, Site, and License. The settings you enter are pushed to the devices via cloud hosted management.

Role & Privilege-Based Access Control

Network administrators can assign different privileges to users within or outside of the organisation to manage and monitor network and guest access. Multiple roles can be created to provide varying levels of management authority. Provisioning network access control will allow organisations to enhance security and prevent accidental or malicious network misconfiguration.
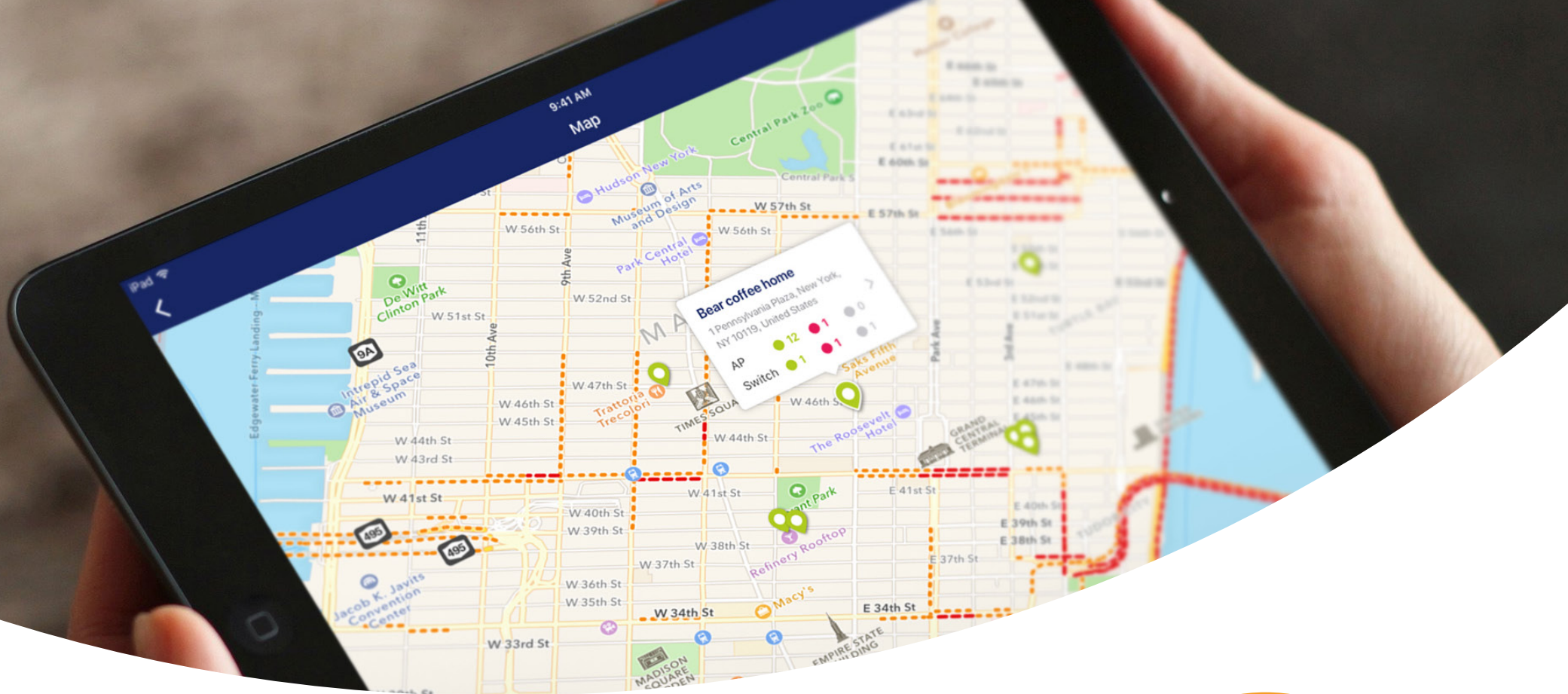
RoleStructure
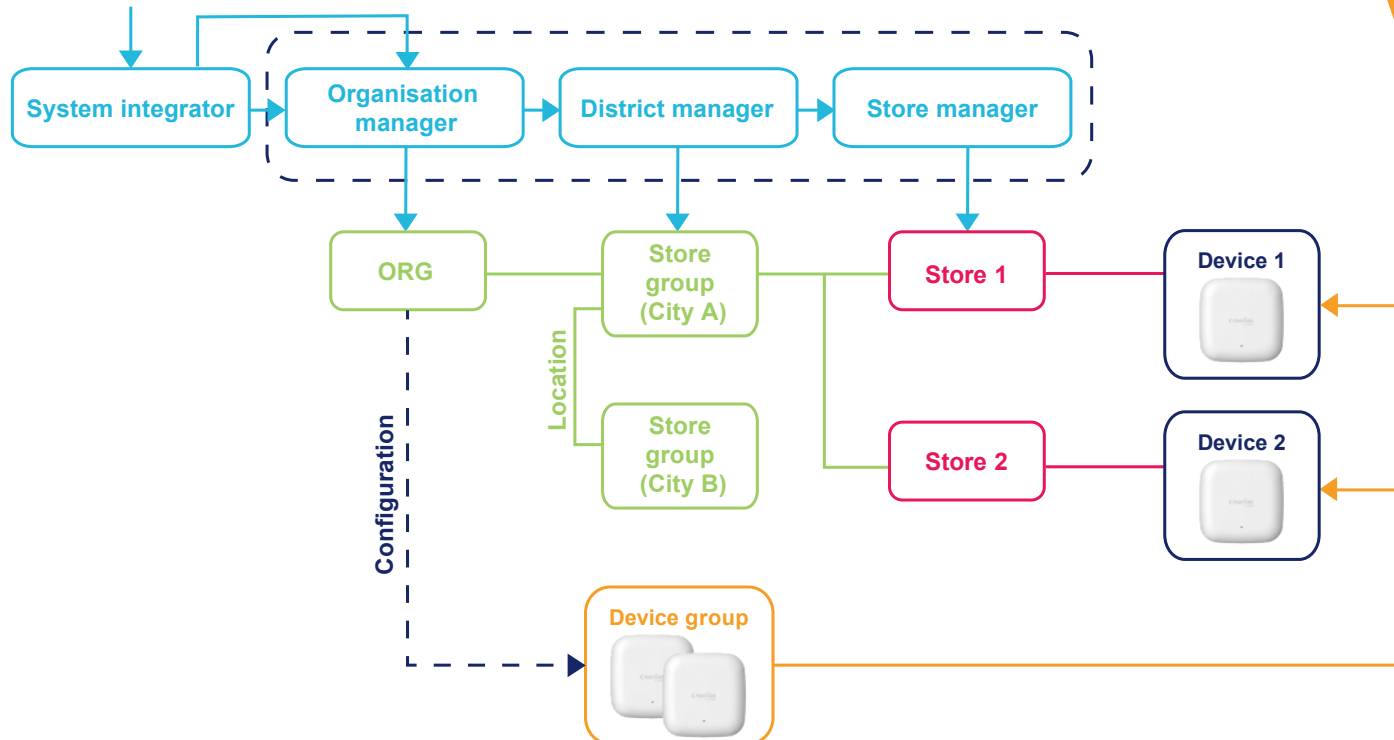
PrivilegeControl

High

Domain admin

Editor

Monitor

Viewer

Low

Automated monitoring and alerts

On-screen and email alerts allow you to take proactive steps to resolve problems while in-depth reporting allows you to gauge service quality.

- High availability with 24/7 automated failure detection

- Optimised performance with servers that automatically scale to meet performance demands

- Download detailed statistics and reports of the network directly from the Nuclias Cloud Management web-portal.

- Ability to quickly identify where there are problems through the intuitive map

Cross time zone support
(Rapid escalation across multiple operations teams)

Security

D-Link's Nuclias accounts can only be accessed via HTTPS, ensuring that all communication between an administrator's browser and Nuclias Cloud server is encrypted.

All communications between the Nuclias Cloud server and Nuclias devices are secured through websocket over SSL.
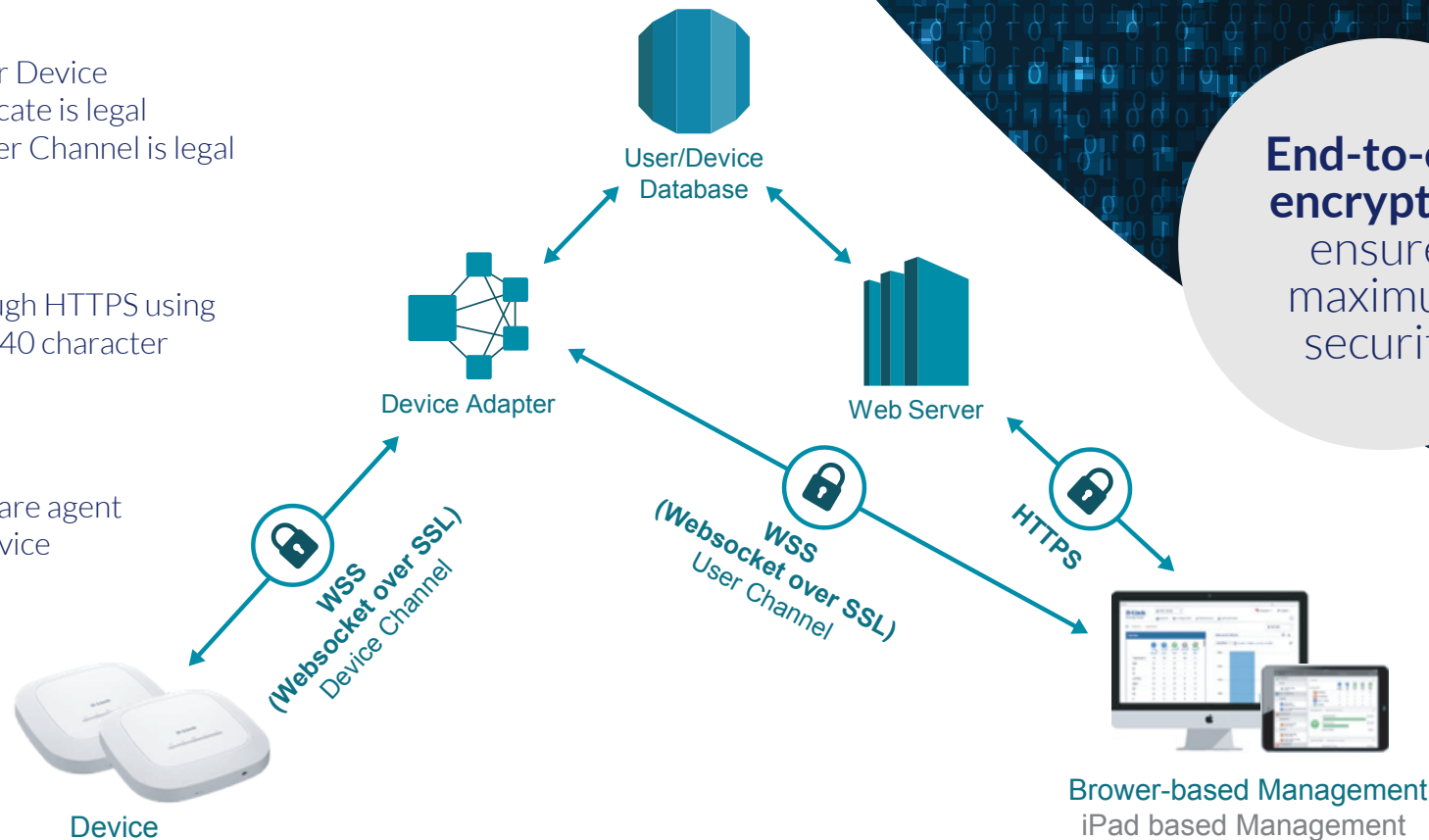
Device Adapter

- Generates the certificate for Device
- Verifies that Device's certificate is legal
- Verifies access token via User Channel is legal
- Provide access control

Web Server

- Client communication through HTTPS using OAuth authorisation with a 40 character Access Token

Device

- Built-in with in-house software agent SDK (Cloud Adapter) for device to connect to the cloud.

User/Device Database

Device Adapter

Web Server

End-to-end encryption ensures maximum security

WSS **(Websocket over SSL)** Device Channel

WSS **(Websocket over SSL)** User Channel

HTTPS

Device

Brower-based Management
iPad based Management

Customisable Captive Portal

Wi-Fi access log-in pages can be fully customised with personalised backgrounds, text and themes through the online editor or directly with HTML code. Not only does this allow control over Internet access and help with data capture, it also allows business to build brand awareness.
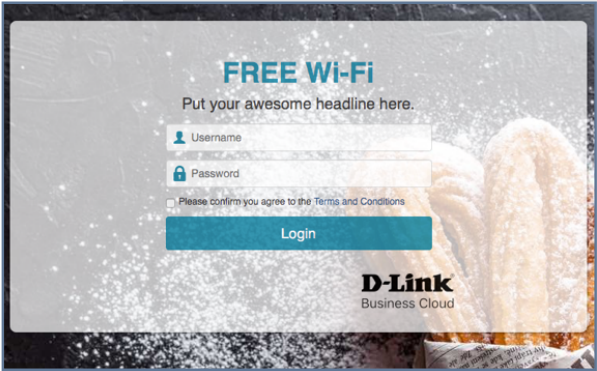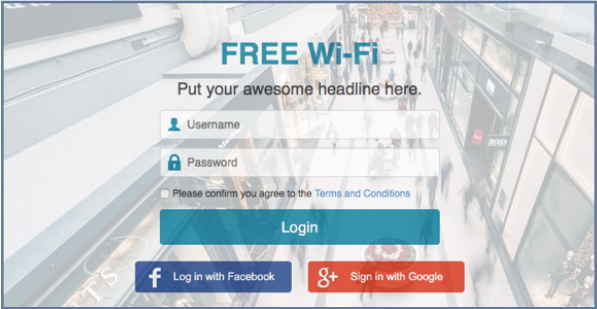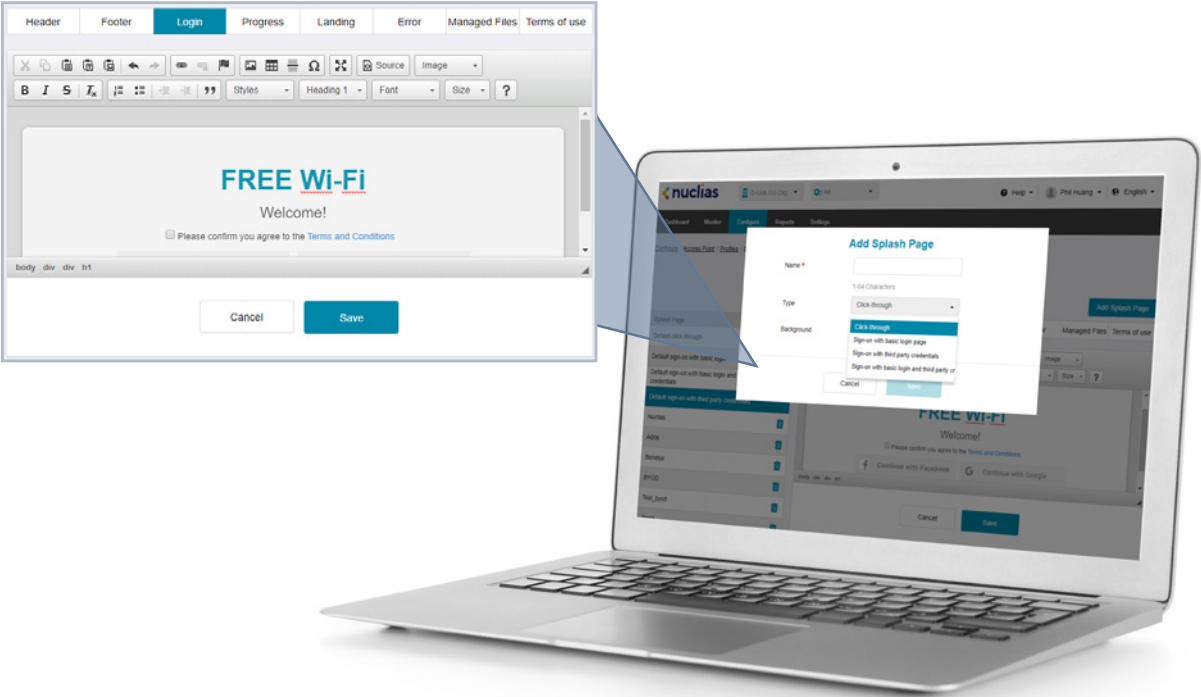
Nuclias Access Points

With next-generation 802.11ac Wave 2 dual-band concurrent 2.4 GHz and 5 GHz radios, the DBA Business Cloud Wave 2 Access Points are best-in-class indoor and outdoor access points designed specifically for enterprise environments.

Offering high combined data rates to wireless clients and designed as a zero-configuration, pre-managed access point for the Nuclias cloud, DBA Business Cloud Wave 2 access points allow for lightning-fast access to bandwidth-intensive applications such as data, voice, and video streaming.

DBA Business Cloud Wave 2 Access Point Highlights:

D-Link IEEE 802.11ac Wave 2 Wireless AC Access Point
- Up to 1200 Mbps with 2 x 2 MIMO with two spatial streams
- Supports MU-MIMO, beam forming and load balancing

Simplified deployment, enabling installation into an existing network infrastructure
- Integrates Gigabit PoE Ethernet LAN port
- Zero-touch provisioning, AP can be provisioned before deployment

Revolutionary Energy Efficiency
- Innovative D-Link Green features helps conserve energy without affecting performance

Products

DBA-1210P	DBA-1520P*	DBA-3620P*
802.11ac Wave 2	802.11ac Wave 2	802.11ac Wave 2 (Outdoor)
2x2 Concurrent Dual band (AC1200)	3x3 Concurrent Dual band (AC1750)	2x2 Concurrent Dual band (AC1200)
802.3af PoE	PoE	802.3af PoE
		6KV surge
		15KV ESD protection
		IP68 rated

* Available in Q1, 2019

Nuclias Switches

The Nuclias Cloud-Managed Switches offer a robust set of Layer 2 and Layer 2+ features designed to support the most demanding applications.

Extensive range to meet the networking needs of businesses of all sizes with a range of port configurations from 10-52 ports. L2/L2+ features help to optimise and improve network efficiency. Optional PoE models that support PoE/PoE+ with high PoE power budgets. Combo fibre ports provide additional flexibility on choice and distance the switches can be connected.

D-Link Switch Highlights:

- Simultaneous/scheduled firmware upgrade and configuration push
- Customisable network reports
- Alert when a switch or port goes offline
- Switches can be configured through the Nuclias cloud-platform for

  - Pv4 ACL for network resource management and control
  - Access policies for port/MAC-based network security
  - Port scheduling allows you to enabled/disable port based on time schedule
  - Switch port configuration including VLAN, role, PoE, mirroring

Switches

Model	DBS-2000-10MP	DBS-2000-28	DBS-2000-28P	DBS-2000-28MP	DBS-2000-52	DBS-2000-52MP
Port configuration	• 8 x GE PoE • 2 x SFP	• 24 x GE • 4 x Combo GE / SFP	• 24x GE PoE • 4 x Combo GE / SFP	• 24 x GE PoE • 4 x Combo GE / SFP	• 48 x GE • 4 x Combo GE / SFP	• 48 x GE PoE • 4 x Combo GE / SFP
Remark	PoE budge 130W		PoE budge 193W	PoE budge 370W		PoE budge 370W

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Find out how Nuclias can assist your business at **www.dlink.com/nuclias**