nuclias
cloud

Solution
Overview

D-Link®
FOR BUSINESS

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**

Simple, feature-rich cloud networking, as it should be.

People simply want things to work as they should, and network management is no exception. D-Link designed Nuclias to be a cloud networking solution with a simple and user-oriented design, packed with rich features and functionality, designed to address the needs of everyone.

This is cloud networking, refreshed.

Why Nuclias Cloud?

Nuclias Cloud can deliver tremendous efficiency gains for SMBs with numerous small locations and modest IT resources, such as retailers, restaurants, petrol stations and hotel chains, and is well-suited to businesses who want a network that just works, without being bothered with configuration or administration tasks.

Nuclias offers enterprise-grade high-performance Wi-Fi Access Points, high-speed Gigabit Managed Switches and Security Gateways 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 network connectivity at one or more sites

• Are expanding their network with increasing numbers 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
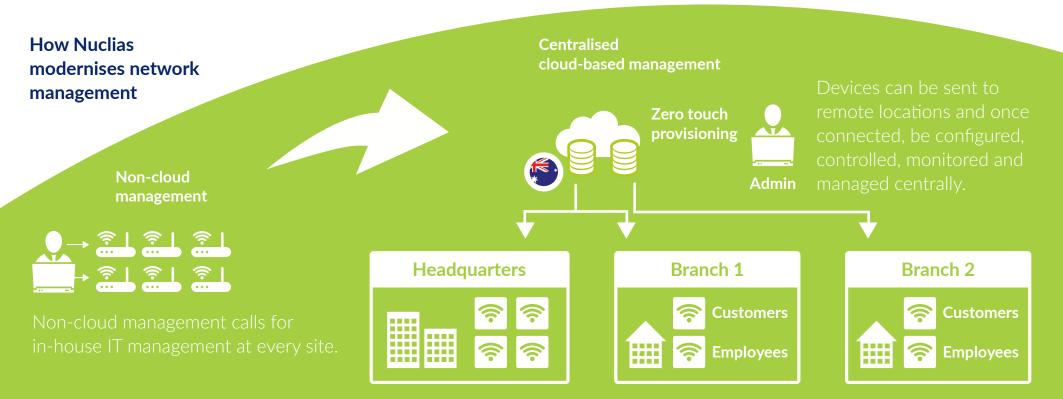
Unlimited Scalability
of Managed Devices

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 an out-of-band, SSL-encrypted management plane, backed with a 99.9% 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

Branch 1
Customers
Employees

Branch 2
Customers
Employees

12 Features That Make Cloud-Managed Networks Easier

Instead of guessing what SMBs needed, we asked them. After in-depth consultations with busy business owners and skilled IT professionals like you, we hashed out key features a cloud managed network needs in order for businesses to get ahead and succeed.

01. Zero-Touch Provisioning
Reduces setup and network expansion time and costs

02. Multi-tenant Architecture
Relieve administrative work, IT maintenance, and legal/HR headaches

03. Auditable Changelogs
Makes diagnosing network problems easier

04. Authentication via Customisable Captive Portal, 802.1x and Radius Server
Can limit network security risks

05. Advanced Traffic Reports
Help improve network speed

06. Automatic Monitoring and Alerts
Encourage proactive network management

07. Over-the-web Firmware Upgrades
Decrease server downtime

08. Searchable Network-Wide Event Logs
Help IT managers focus on important tasks

09. Multi-layered Network Protection SD-WAN Security Gateway offers high performance Firewall with Intrusion Protection, VPN, Web Content Filtering, Application Control & more.

10. Intuitive VLAN Configuration
Can automatically balance network bandwidth needs and channels

11. Cloud-Based RF Optimisation
Delegates traffic and signal strength as needed

12. Social Login Support for Wi-Fi Access
Increase and simplify account sign-ups

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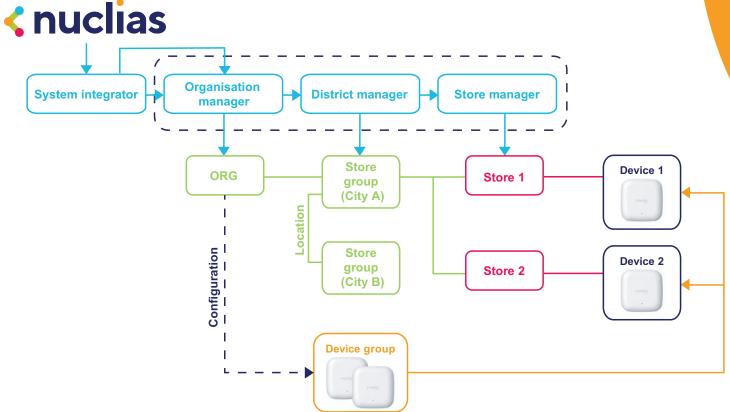
Instead, there is a simple annual cost based on the number of Access Points deployed. So there's no need to over provision. You only pay for what you need, with the ability to scale back or expand, in line with business demand.

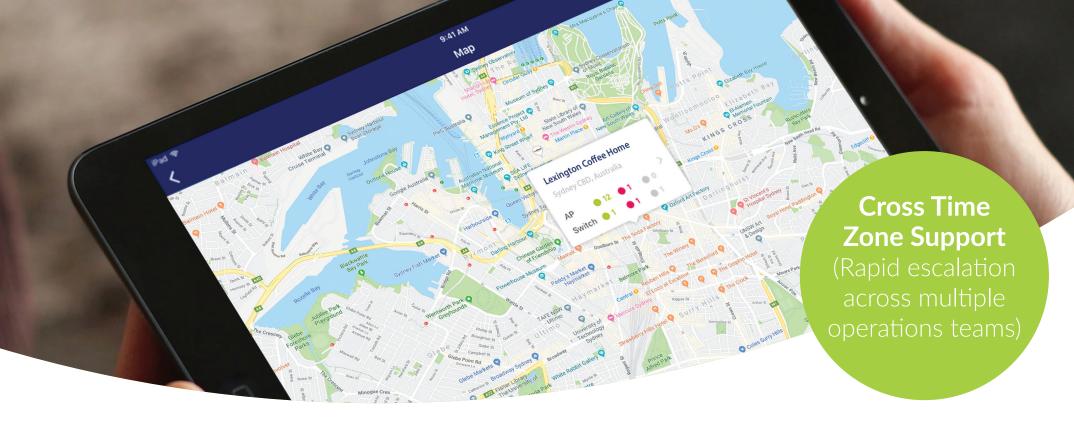Cloud-based management **cuts the cost of deployment**

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.

Role Structure

Privilege Control

High

- Domain Admin
- Editor
- Monitor
- Viewer

Low

Cross Time Zone Support
(Rapid escalation across multiple operations teams)

Automated Monitoring & 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

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
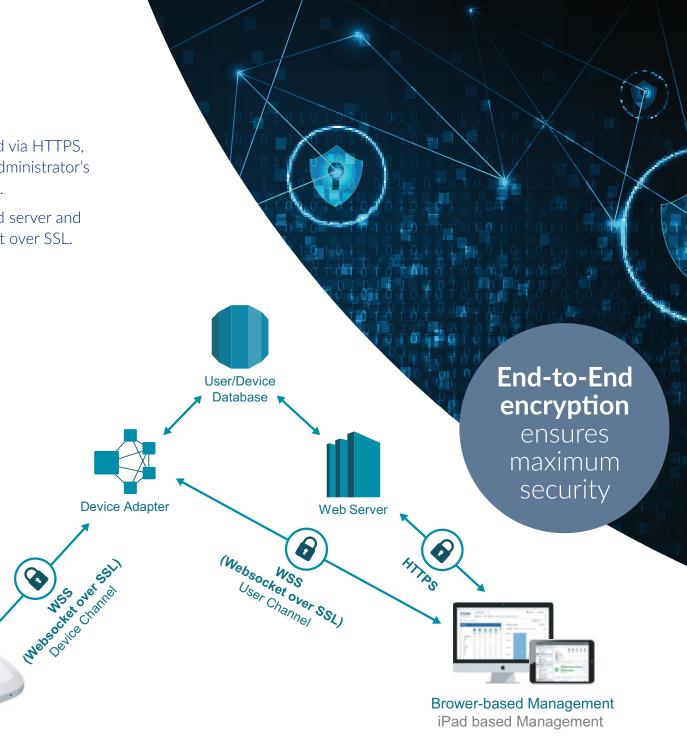
• Provide access control

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

SD-WAN Gateway | DBG-2000

nuclias cloud

Cloud-Managed SD-WAN Gateway With Powerful Features That Help Keep Internet-Borne Threats at Bay

Zero-Touch Provisioning
Automatically configured, no on-site setup necessary

Cloud Based Management
Manage on-site or remotely, wherever, whenever

Intrusion Prevention System
Inspect vulnerabilities and protect intrusions from unknown backdoors

Dynamic Web Content Filtering
The Web Content Filtering feature keeps the network safe against malicious websites and provide browsing behaviours analytics

Application Control
Streamline configuration of security settings and propagate to all the connected SD-WAN Gateways

Auto VPN
Easily build VPN tunnels between Nuclias Cloud SD-WAN Gateways

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 Wi-Fi 6 / 802.11ax Dual-Band concurrent 2.4GHz and 5GHz radios, the DBA-Series of Nuclias Cloud Access Points are best-in-class Indoor and Outdoor AP's designed specifically for enterprise environments.

Offering high combined data rates to wireless clients and designed as a zero-configuration, pre-managed Access Point for Nuclias Cloud, the DBA-Series of Access Points allow for lightning-fast access to bandwidth-intensive applications such as data, voice, and video streaming.

Model	DBA-1210P	DBA-1510P	DBA-X1230P	DBA-X2830P	DBA-3620P	DBA-3621P
Product Image						
Nuclias Cloud Access Point Hardware Features						
Placement	Indoor	Indoor	Indoor	Indoor	Outdoor with IP55	Outdoor with IP67
Wireless	Wi-Fi 5 802.11ac Wave 2	Wi-Fi 5 802.11ac	Wi-Fi 6 802.11ax	Wi-Fi 6 802.11ax	Wi-Fi 5 802.11ac Wave 2	Wi-Fi 5 802.11ac Wave 2
Speed	1.3Gbps	1.75Gbps	1.8Gbps	3.6Gbps	1.3Gbps	1.3Gbps
Antenna	2x2	3x3	2x2	4x4	2x2	External 2x2
Band Steering	Yes	Yes	Yes	Yes	Yes	Yes
MU-MIMO	Yes	Yes	Yes	Yes	Yes	Yes
Gigabit Uplinks	1 x 1Gb	1 x 1Gb	1 x 1Gb	1 x 2.5Gb + 1 x 1Gb	1 x 1Gb	1 x 1Gb
Warranty			D-Link FOR BUSINESS LIFETIME WARRANTY / D-Link FOR BUSINESS LIFETIME SUPPORT Dedicated Tech Team / D-Link FOR BUSINESS LIFETIME REPLACEMENT Next Business Day			

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.

Model	DBS-2000-10MP	DBS-2000-28	DBS-2000-28P	DBS-2000-28MP	DBS-2000-52	DBS-2000-52MP
Product Image						
Nuclias Cloud Managed Switch Features						
Gigabit Ports	10	28	28	28	52	52
SFP Ports	2	4 Combo	4 Combo	4 Combo	2x2	4 Combo
Switching Capacity	20 Gbps	56 Gbps	56 Gbps	56 Gbps	104 Gbps	104 Gbps
PoE Budget	130W	N/A	193W	370W	N/A	370W
Features	VLAN, Voice VLAN, QoS, Spanning Tree, IGMP Snooping, Jumbo Frames, Link aggregation, ACLS, DHCP Server Screening, Cable Diagnostics, Port Scheduling, Reporting					
Warranty	D-Link FOR BUSINESS LIFETIME WARRANTY D-Link FOR BUSINESS LIFETIME SUPPORT Dedicated Tech Team D-Link FOR BUSINESS LIFETIME REPLACEMENT Next Business Day					

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We're a global company with a local touch and we'll support you all the way. We've seen how other Cloud-Management Network Solutions have been placed out of reach of many resellers. We've designed Nuclias to be as accessible as possible, without compromise to quality.

Next steps

Get more detail about how Nuclias works, see how easy it is to set up and manage, and learn why it's superior to the competition at

dlink.com.au/nuclias

For more information please contact us at **nuclias@dlink.com.au**

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