



Modernize without compromise:

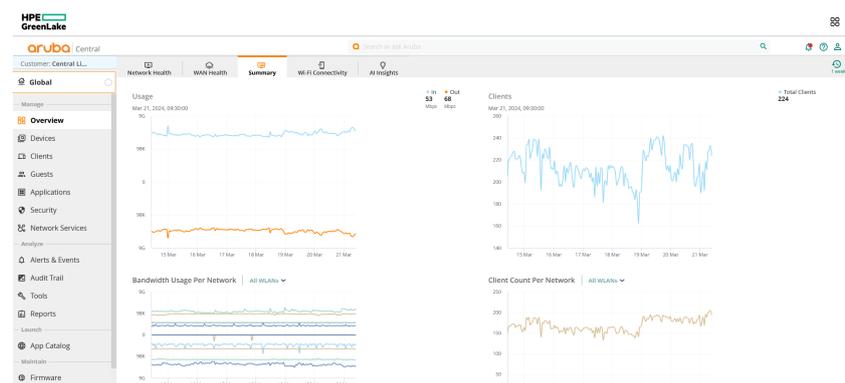
8 Reasons to Upgrade IAPs to HPE Aruba Networking Operating System Software 10

Key benefits of upgrading to HPE Aruba Networking Operating System Software 10

- Upgrade at no additional cost** — AOS-10 upgrades are included in your HPE Aruba Networking Central AP Foundational/Advanced Licenses. No secondary purchases are required.
- Use your existing infrastructure** — AOS-10 is available for HPE Aruba Networking 3xx Series APs, 5xx Series APs, and 6xx Series APs. See Supported Devices to determine if new hardware is recommended.
- Increase scale** — Roaming domains are expanded from 128 APs to 500 APs, with multiple roaming domains supported. You can also use an AOS-10 gateway deployment to scale up to 16K APs per cluster (multiple clusters supported)
- Eliminate downtime with live, in-service upgrades** — New to AP-only deployments, you can upgrade firmware without the need for maintenance windows. No controllers are required for this benefit.

Meet HPE Aruba Networking Operating System Software 10

The next-generation distributed operating system for your HPE Aruba Networking Central-managed access points and gateways



What is HPE Aruba Networking Operating System Software 10?

HPE Aruba Networking Operating System Software 10 (AOS-10) is the HPE Aruba Networking Central distributed network operating system that controls HPE Aruba Networking access points (APs) and optional gateways. With its flexible architecture, network teams can deliver reliable and secure wireless connectivity for small offices, midsized branches, large campus environments, and remote worker deployments. In tandem with cloud-native HPE Aruba Networking Central, AOS-10 provides WLAN management and control to deliver greater scalability, security, and AI-powered optimization.

Key benefits of upgrading to HPE Aruba Networking Operating System Software 10

• Get AI-powered RF

optimization — HPE Aruba Networking AirMatch, a machine learning-based feature, proactively adjusts RF settings to boost performance and minimize interference. No controllers are required for this benefit.

• Optimize with SD-WAN capabilities for every

AP — APs can be provisioned and configured for microbranch functionality — alongside headend gateways acting as VPN concentrators to optimize and control WAN, LAN, and cloud security services.

• Converge IoT services over

WLAN — Reduce infrastructure overlays by transporting IoT data to and from ecosystem partners using AOS-10 APs.

• Adopt Gateways

Seamlessly — You can use HPE Aruba Networking Central to manage AP-only and Gateway-based WLAN deployments (mixed and tunnel mode), streamlining the orchestration of multiple networks.

Over 2 million access points, switches, and gateways are managed by HPE Aruba Networking Central Cloud worldwide

Why Upgrade to AOS-10?

AOS-10 simplifies onboarding, configuring, and provisioning APs and gateways and requires no manual CLI configuration or maintenance windows. After an AP is plugged in, the device connects and receives its running configuration from the cloud using Zero Touch Provisioning, which allows remote workers and offices to onboard and configure wireless connectivity without any onsite IT support.

If your organization is experiencing one or more of the following challenges, you will benefit from enhancing your HPE Aruba Networking Central-managed network by upgrading to AOS-10.

Network challenges

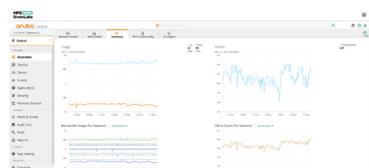
What are the reasons to update to AOS-10? And what are the licensing requirements?

- You're adding more and more APs to each site and supporting more users and connected devices.
 - AOS-10 enables higher roaming domain limits, with support for 500 APs or up to 5,000 clients, with multiple roaming domains supported. Organizations can also deploy AOS-10 gateways to support up to 16,000 APs and 100,000 clients per cluster (multiple clusters supported).
 - Licensing requirements: New or Existing HPE Aruba Networking Central AP Foundational or AP Advanced License.
- Your RF planning is getting increasingly more complicated.
 - AOS-10 includes AI-powered HPE Aruba Networking AirMatch, an RF optimization technology that uses machine learning to deliver more efficient spectrum utilization — intelligently choosing channels and transmitting power, while avoiding interference.
 - Licensing requirements: New or Existing HPE Aruba Networking Central AP Foundational or AP Advanced License.
- You're asked to deliver an in-office experience to remote and hybrid workers.
 - AOS-10 allows APs to provide WAN, LAN, and security services in a single form factor. APs shipped to a remote site undergo Zero Touch Provisioning and establish secure Internet connections that terminate into a virtual or physical headend gateway.
 - New or Existing HPE Aruba Networking Central AP Foundational or AP Advanced License.
- Your IT architecture is inundated by new IoT/OT infrastructure and services.
 - AOS-10 delivers an integrated approach to IoT services by enabling APs to transport a variety of [partner IoT data](#) over the enterprise WLAN.
 - Licensing requirements: New or Existing HPE Aruba Networking Central AP Foundational or AP Advanced License.



5. You're regularly asked to delay network maintenance, or you increasingly need more time to manage upgrades.
 - With sufficient network infrastructure in place, AOS-10 supports live, in-service upgrades to enable network maintenance without impacting end-user connectivity.
 - Licensing requirements: New or Existing HPE Aruba Networking Central AP Foundational or AP Advanced License.
6. You're planning to enable Layer 3 roaming.
 - You can add AOS-10 gateways to an AOS-10 AP deployment to enable seamless roaming across large, distributed networks.
 - Licensing requirements: New or Existing HPE Aruba Networking Central AP Foundational or AP Advanced License (Gateway required).
7. You prefer a single authentication point for your RADIUS service or 802.1X network.
 - Instead of adding every AP on the network as a separate network authentication server (NAS) client, you can use one or more gateways as a RADIUS proxy to simplify deployment.
 - Licensing requirements: New or Existing HPE Aruba Networking Central AP Foundational or AP Advanced License (Gateway required).
8. You need to securely manage guest access as a separate network.
 - The same AOS-10 APs in a single campus can encrypt and forward traffic to gateways that reside in separate zones or clusters, keeping networks secure and separate.
 - Licensing requirements: New or Existing HPE Aruba Networking Central AP Advanced License Only (Gateway required).

Table 1. Key products



Product name	Product description
HPE Aruba Networking Central — cloud-native network management	HPE Aruba Networking Central is a software-as-a-service solution hosted on the HPE GreenLake for Networking edge-to-cloud platform, with all management system updates and maintenance handled in the cloud. You can also deploy HPE Aruba Networking Central on server appliances within a private data center. Learn more.
Wireless access points (HPE Aruba Networking APs)	Providing secure multi-gigabit wireless connectivity for Wi-Fi devices and support for BLE and Zigbee protocols, standards-compliant HPE Aruba Networking APs are purpose-built to support multiple deployment scenarios — for indoor, outdoor, and hazardous locations. Learn more.
HPE Aruba Networking network access/aggregation/core switches	Delivering scalable, always-on high performance with built-in analytics, HPE Aruba Networking network switches are deployed across access, aggregation, and core layers of the network to converge client, application, and services traffic — serving as the backbone of your enterprise network. Learn more.
Gateways (HPE Aruba Networking gateways)	Delivering high-performance, traffic and data segmentation, roaming, VPN, and SD-WAN services, HPE Aruba Networking Gateways are managed by HPE Aruba Networking and deployed onsite or in the cloud, and designed for enterprises that require advanced security, routing, and performance capabilities in enterprise environments. Learn more.

Resources

Learn more about HPE Aruba Networking Central:

arubanetworks.com/resource/why-add-central-to-iap-deployments/

Ready to get started? Start here: arubanetworks.com/ready-for-arubaos-10

For additional upgrade planning resources, access the validated solution guide:

arubanetworks.com/techdocs/VSG/docs/035-campus-migrate/esp-campus-migrate-030-planning-iap/#bridge-mode-ap-and-client-scaling

Learn more about cloud-managed networking:

<https://www.arubanetworks.com/readyforcloud/>

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Contact our presales specialists.



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