



# Modernize without Compromise:

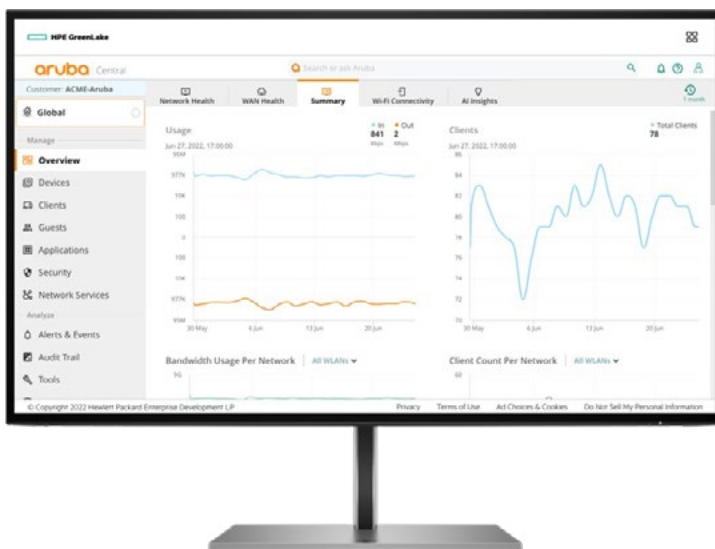
8 Reasons to Upgrade IAPs to ArubaOS 10

### Key benefits of upgrading to ArubaOS 10

- **Upgrade at no additional cost**—AOS 10 upgrades are included in your Central AP Foundation / Advanced Licenses. No secondary purchases are required.
- **Use your existing infrastructure**—AOS 10 is available for 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.
- **Get AI-powered RF optimization**—[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 Aruba Central to manage AP-only and Gateway-based WLAN deployments ([mixed and tunnel mode](#)), streamlining the orchestration of multiple networks.

## Meet ArubaOS 10

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



### What is ArubaOS 10?

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

### Over 2 million access points, switches, and gateways are managed by Aruba 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 Aruba Central-managed network by upgrading to AOS 10.



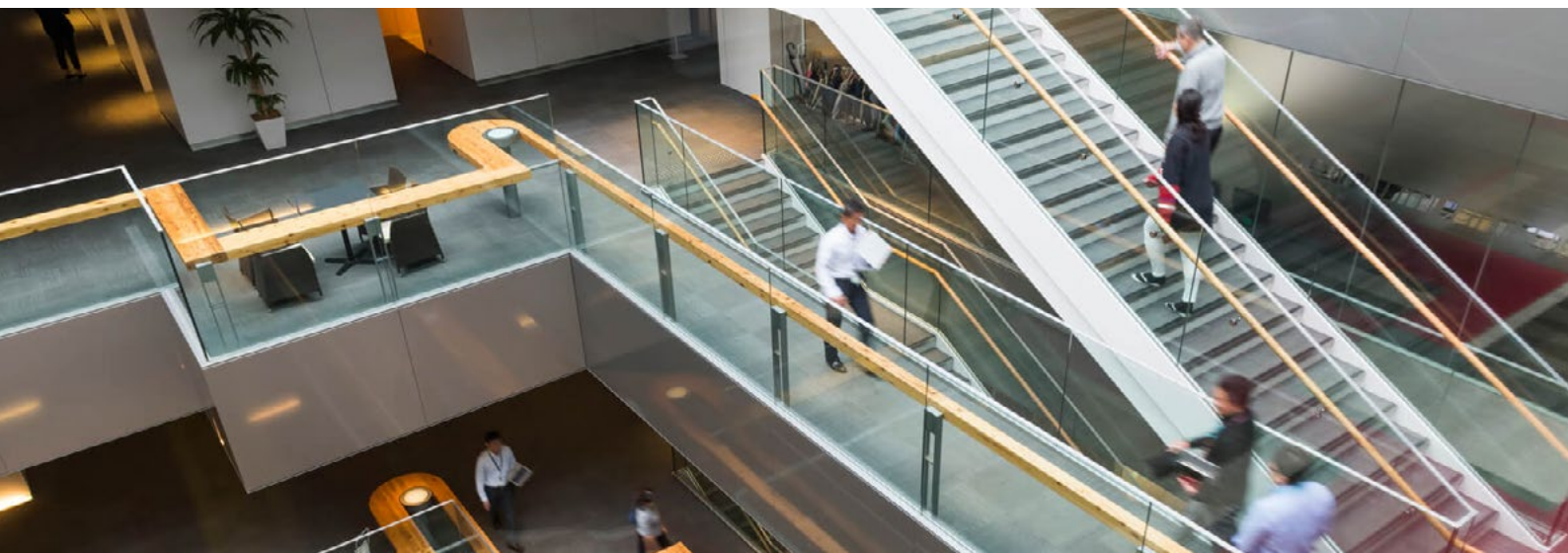


## Network Challenges

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

1. 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 Aruba Central AP Foundation or AP Advanced License.
2. Your RF planning is getting increasingly more complicated.
  - AOS 10 includes AI-powered [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 Aruba Central AP Foundation or AP Advanced License.
3. 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 Aruba Central AP Foundation or AP Advanced License.
4. 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 Aruba Central AP Foundation 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 Aruba Central AP Foundation 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 Aruba Central AP Foundation 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 Aruba Central AP Foundation 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 Aruba Central AP Advanced License Only (Gateway required).





## Key Products

Product Name	Product Description
<b>Aruba Central— Cloud-native network management</b>	Aruba Central is a software-as-a-service solution hosted on the HPE GreenLake edge-to-cloud platform, with all management system updates and maintenance handled in the cloud. You can also deploy Aruba Central on server appliances within a private data center. <a href="#">Learn more</a>
<b>Wireless Access Points (Aruba APs)</b>	Providing secure multi-gigabit wireless connectivity for Wi-Fi devices and support for BLE and Zigbee protocols, standards-compliant Aruba APs are purpose-built to support multiple deployment scenarios—for indoor, outdoor, and hazardous locations. <a href="#">Learn more</a> .
<b>Aruba Network Access / Aggregation / Core Switches</b>	Delivering scalable, always-on high performance with built-in analytics, Aruba 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. <a href="#">Learn more</a> .
<b>Gateways (Aruba Gateways)</b>	Delivering high-performance, traffic and data segmentation, roaming, VPN, and SD-WAN services, Aruba Gateways are managed by Aruba Central and deployed onsite or in the cloud, and designed for enterprises that require advanced security, routing, and performance capabilities in enterprise environments. <a href="#">Learn more</a> .



## **Resources**

Learn more about Aruba Central:

<https://www.arubanetworks.com/resource/why-add-central-to-iap-deployments/>

Ready to get started? Start here:

<https://www.arubanetworks.com/ready-for-arubaos-10>

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

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

**Make the right purchase decision.  
Contact our presales specialists.**



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## **Learn more about cloud-managed networking:**

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