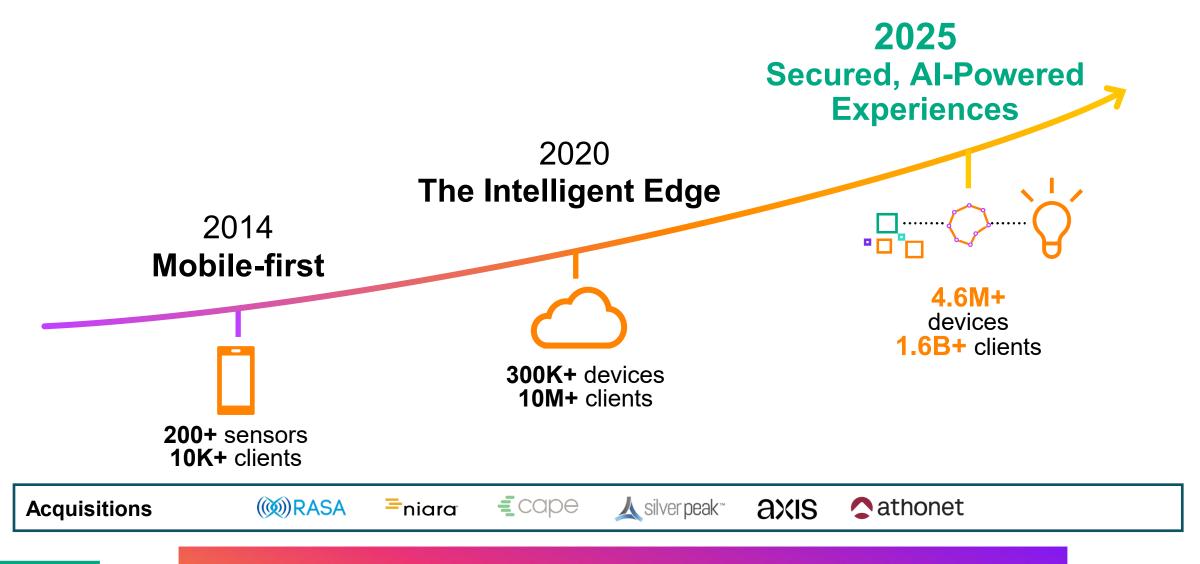


Evolution of Central

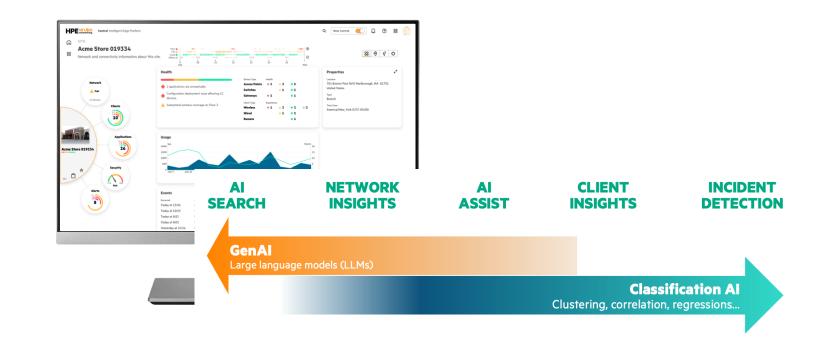


New Central: Learns from the Industry's Largest Data Lake

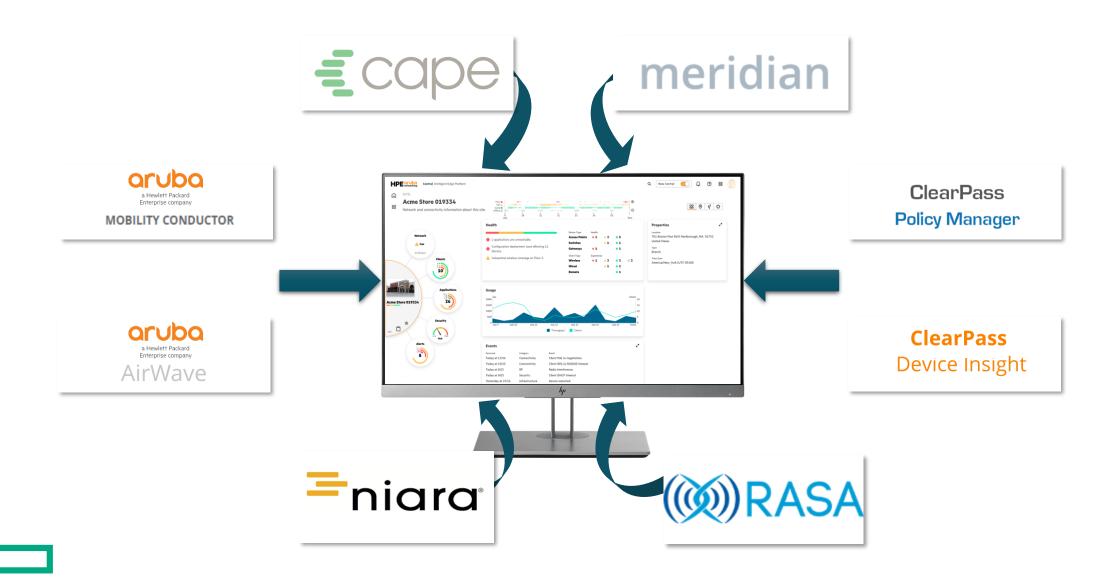




30+
Industry Verticals

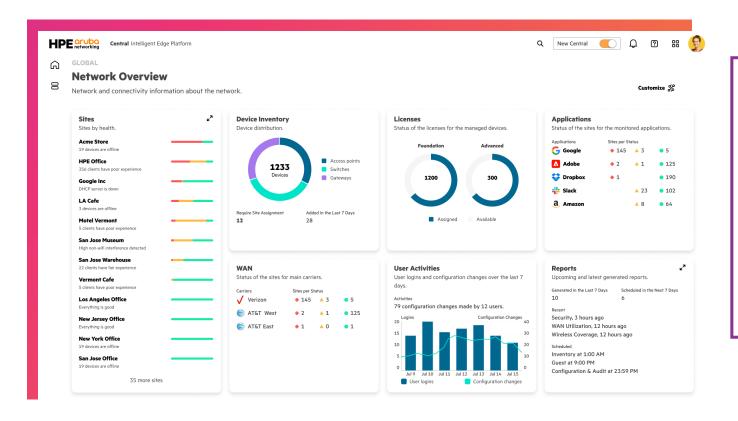


New Central: The Best From the Past and the Future



Network operations Center dashboard

Powerful command center view to direct operator attention



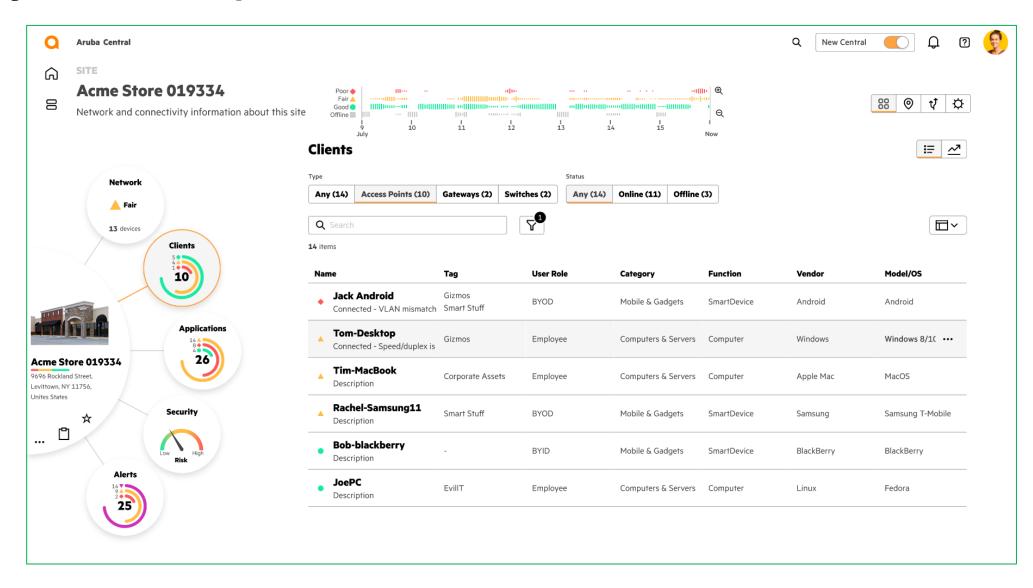
- Unified view of the network for quick assessment of site health, application experience, device inventory, and more
- Optimizing the to-do list of a network operator
- Blended indicators highlight issues requiring immediate attention

Entity-centric Solar System view

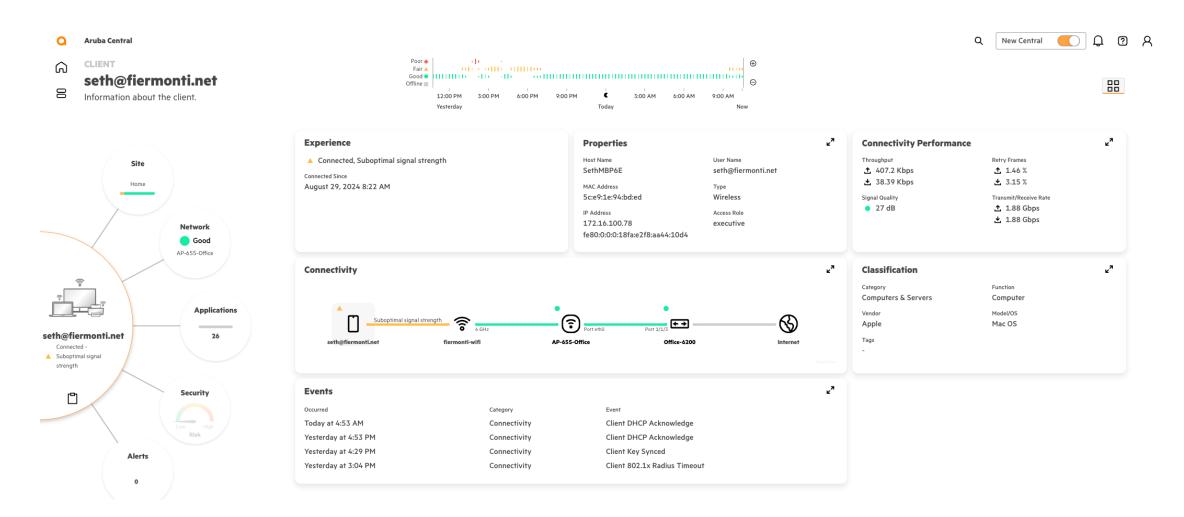
Reduce navigation clicks and minimize manual correlation

- Promotes **quicker discovery** without navigating across several screens and tables
- Proactive summarization with blended indicators
- Seamless switching between site, network devices, clients, applications, etc.
- Access to unified network device and client lists

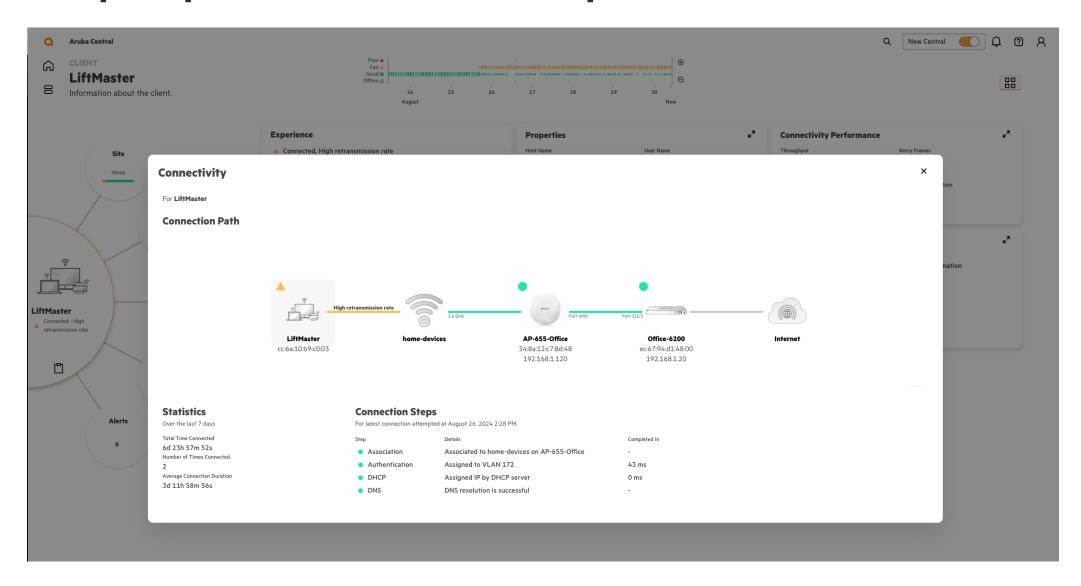
Easy to See Endpoint Client Status



One-Stop Experience Views

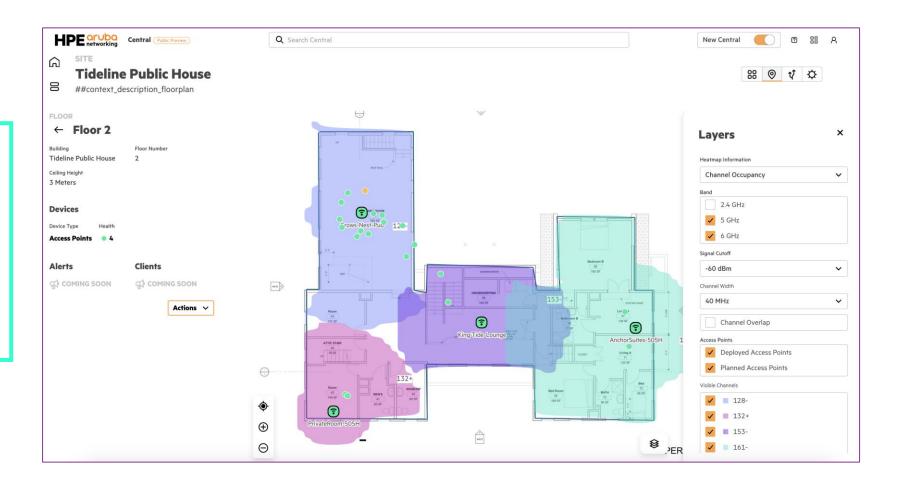


One-Stop Experience Views – deeper details



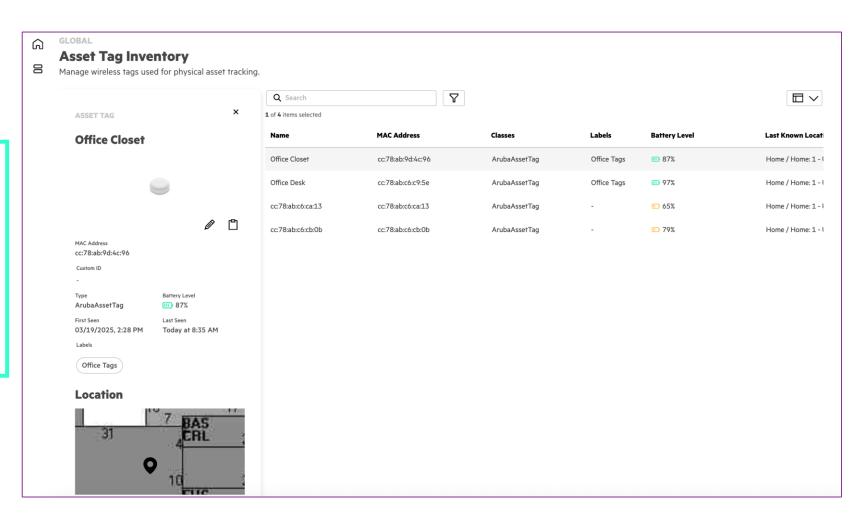
Enhanced Floorplan Manager

- Auto Placement of APs
- Multiple Layers RF, Channel Occupancy, Overlap
- Migrate from Classic Central
- Import from Airwave, Ekahau, Hamina



Asset Tag Inventory and Location

- Aruba and 3rd Party asset tags
- Create custom names and labels
- View location on floorplans
- Last known location and battery levels



Troubleshooting Tools

Framework

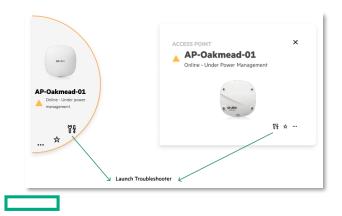
- Tests
- Sequence
- Remote console
- Commands
- History



Results

Visual and CLI options for test results

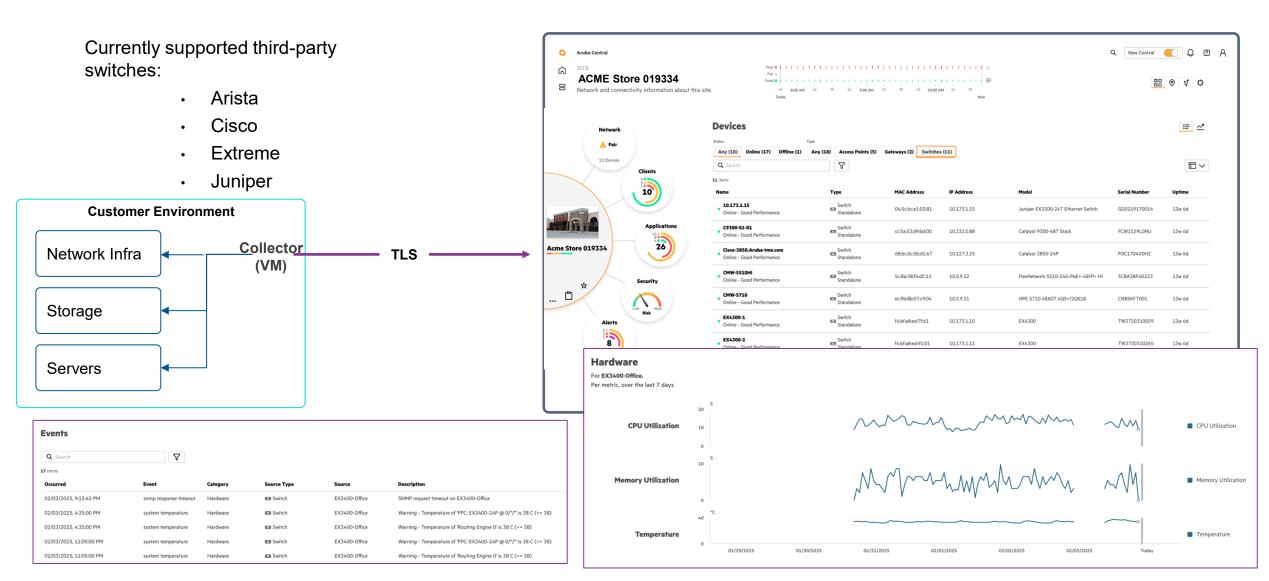
Multiple **Entry points** into the workflow







Third Party Observability with OpsRamp



Bringing together Central and UXI

Enhanced application observability for end-to-end experience monitoring

Digital experience monitoring





HPE GreenLake

New Central

Deep packet inspection (DPI) on APs and gateways to monitor app experience

Integration with Brightcloud for web content and reputation

~3700 applications, including custom and web apps

User Experience Insight (UXI)
Application performance
telemetry

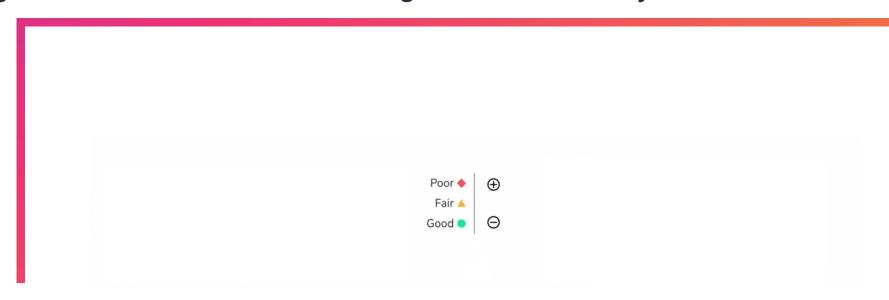
Proactive monitoring with sensors

Supports multi-vendor environments

7000+ customers operating at scale

Industry-first network *Time Travel*

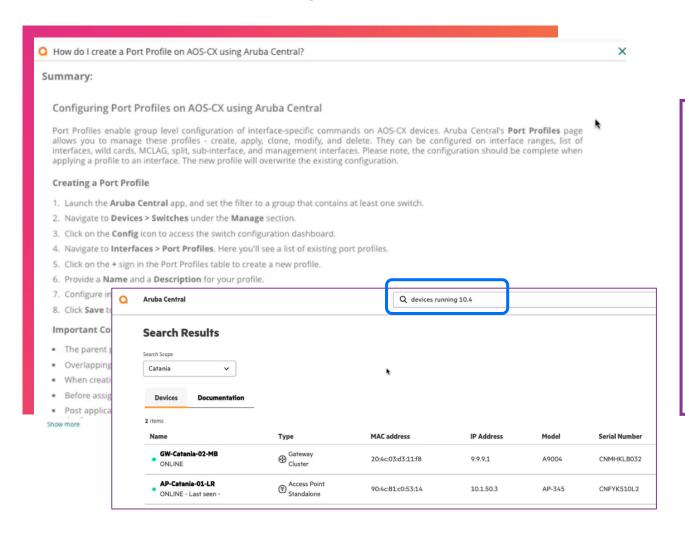
Helping IT teams answer What changed? When? Why?



- Holistic point in time network snapshot to troubleshoot difficult issues
- Deep correlation that goes beyond manual analysis of event logs and packet captures
- Move back in time for up to seven days, with granularity of one minute
- On selecting a timestamp, all dashboard views reflect what the network looked like at that point

Gen Al powered search

Enhanced with enterprise-grade LLMs for improved operator experience

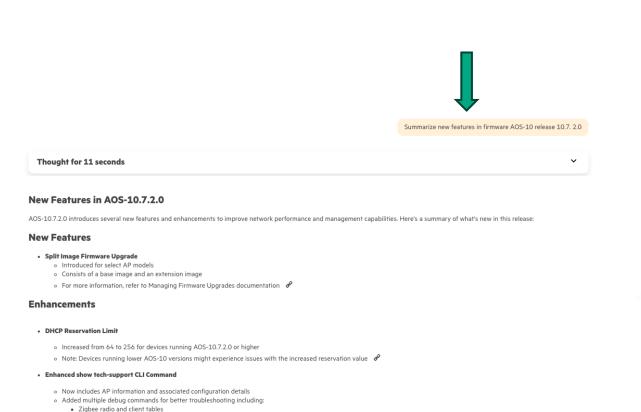


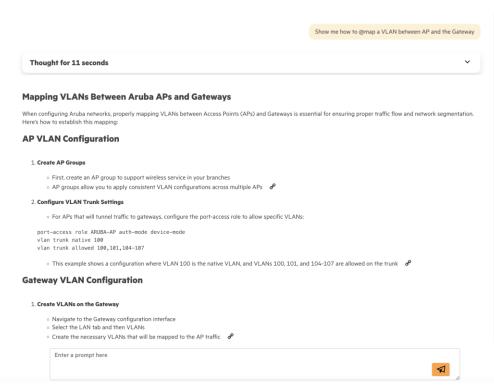
- Trained and tuned on multiple proprietary LLMs, purpose-built for networking
- Pre-conditioned with 3 million network questions for improved performance and accuracy
- Sub-second summarization of latest 30k pages of VRDs and tech pub documents
- Uncompromised security with no external API interfaces, and no PII/CII shared beyond customer instance

Agentic Al Enhances Search

Show me how to map a VLAN between AP and the Gateway Summarize new features in AOS-10 release

IoT USB device information





Agentic Al: Create a custom workflow

How should I upgrade from AOS8 to AOS10

Migrating from AOS 8 to AOS 10 requires careful planning and execution due to significant architectural changes. This guide outlines the key considerations and steps for a successful migration.

Prerequisites

Before beginning the migration process, ensure the following prerequisites are met:

- Controller Requirements
- Associated gateway must be running AOS 8.10.0.12, 8.12.0.1, or later release
- o If using AOS 8.10 prior to 8.10.0.5, avoid using SCP for image transfer as it will result in incorrect permissions
- o If using AOS 8.10 prior to 8.10.0.11 with CPSec enabled, be aware that pre-validation operations may fail
- Knowledge Requirements:
 - o Familiarity with AOS 10 architecture is essential for successful migration
- Review recommended resources including:
- HPE Aruba Networking Central Help
- Architectural Overview of AOS 10
- Validated Solution Guides for Campus WLAN architecture and deployment

Planning Considerations

Architectural Changes

- Management Platform Change: AOS 10 requires HPE Aruba Networking Central for operation and management of APs and Gateways
- Configuration Recreation: The entire AOS 8 configuration must be recreated in Central before upgrading devices to AOS 10

Testing Recommendation

- Test the migration process in a lab or controlled environment before implementing in production
- Ensure all steps are understood and work properly in a test environment

Migration Process

Step 1: Plan Your Configuration

- Create a detailed plan for AOS 10 configuration in Central before upgrading any devices
- Review each layer of your network against migration guidelines

Step 2: Upgrade Test AP First

- 1. Select a test AP for initial migration
- 2. Upgrade using the appropriate ap convert command
- 3. Verify successful conversion by checking LLDP neighbor information from the switch:
 - o AOS 8 APs appear as "CAP
- o AOS 10 APs display as "IAP" 🔗
- 4. Perform standard client testing procedures to ensure functionality

Step 3: Upgrade Remaining APs

After successful testing, proceed with upgrading the remaining APs using the same process with other ap convert command options (e.g., all-aps, ap-group)

Post-Migration Considerations

Authentication Updates

- Update NAD/RADIUS client IP lists on all RADIUS servers to ensure uninterrupted 802.1X WLAN client authentications
- · Prepare for changes if using Internal Authentication Server or EAP-Offload

Troubleshooting

What are the specific commands to upgrade APs using the 'ap convert' command?

AOS8 to AOS10 AP Convert Command Syntax

The ap convert command is used to migrate controller-managed APs from AOS 8 to AOS 10. This command facilitates the conversion process and allows for management through Aruba Central.

Basic Command Structure

ap convert
active {all-aps|specific-aps}
add {ap-group|ap-name}
cancel
clear-all
delete {ap-group|ap-name}
pre-validate {all-aps|specific-aps}

Command Parameters

 Parameter
 Description

 active (all-apsIspecific-aps)
 Convert active Campus AP or Remote AP to Instant APs managed by Aruba Central add (ap-grouplap-name)

 add AP group or AP name to the list for AP conversion cancel
 Cancel conversion (APs currently downloading will continue)

 clear-all
 Remove all AP groups and AP names from the conversion list

 delete (ap-grouplap-name)
 Delete AP group or AP name from the conversion list

pre-validate (all-aps|specific-aps) Pre-validate the Campus AP or Remote AP connection to Aruba Activate or Central

Command Examples

Adding APs to Conversion List

(host) [mynode] #ap convert add ap-group

Or for individual APs:

(host) [mynode] #ap convert add ap-name

Pre-validating APs

(host) [mynode] #ap convert pre-validate specific-aps

Checking Conversion Status

(host) [mynode] #show ap convert-status

Converting APs Using Different Methods

Using HTTP serve

(host) [mynode] #ap convert active specific-aps server http common.cloud.hpe.com path ccssvc/ccs-system-firmware-registry/IAP <imp>

Using SCP server:

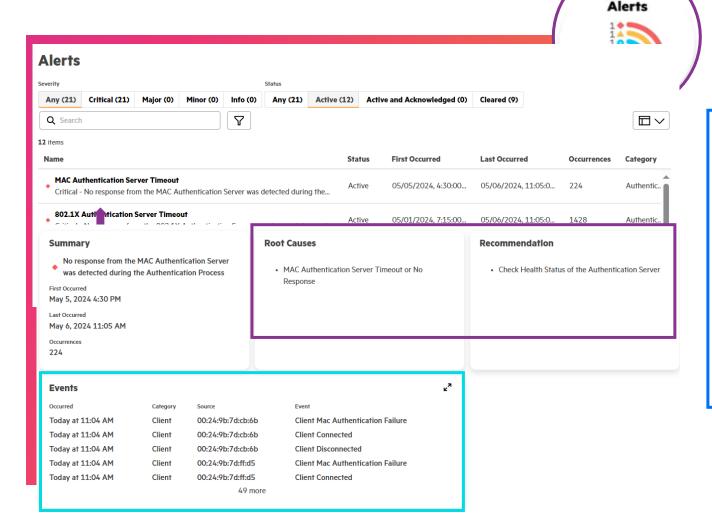
(host) [mynode] #ap convert active specific-aps server scp username

Using local flas

(host) [mynode] #ap convert active specific-aps local-flash ImageFile.tar

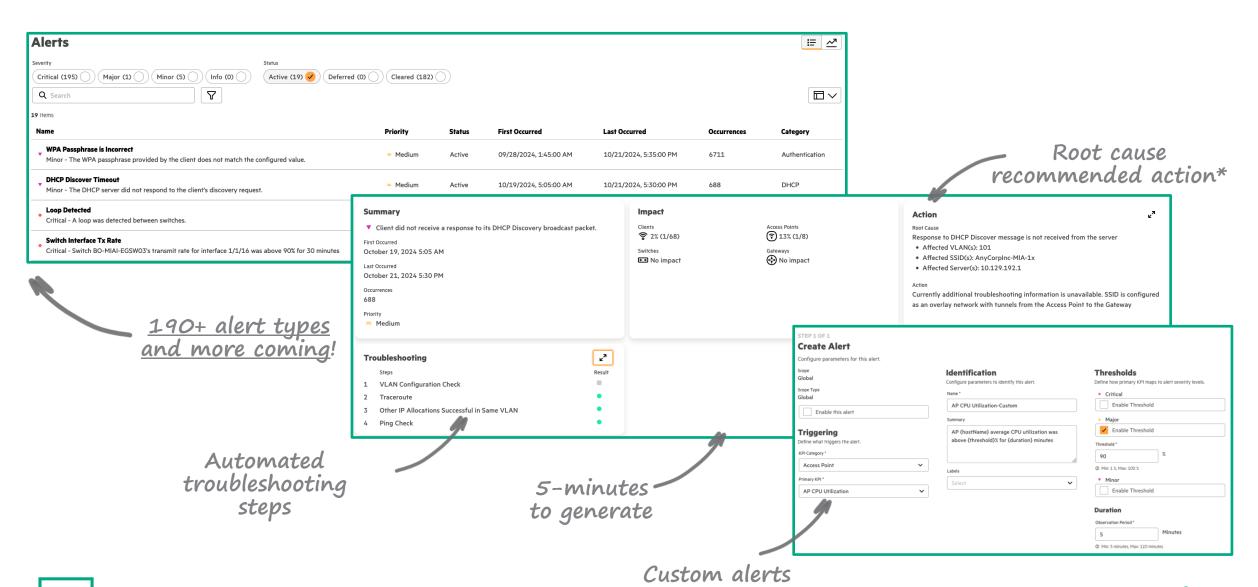
Al-driven assurance and alerts

Accelerate troubleshooting across skill levels



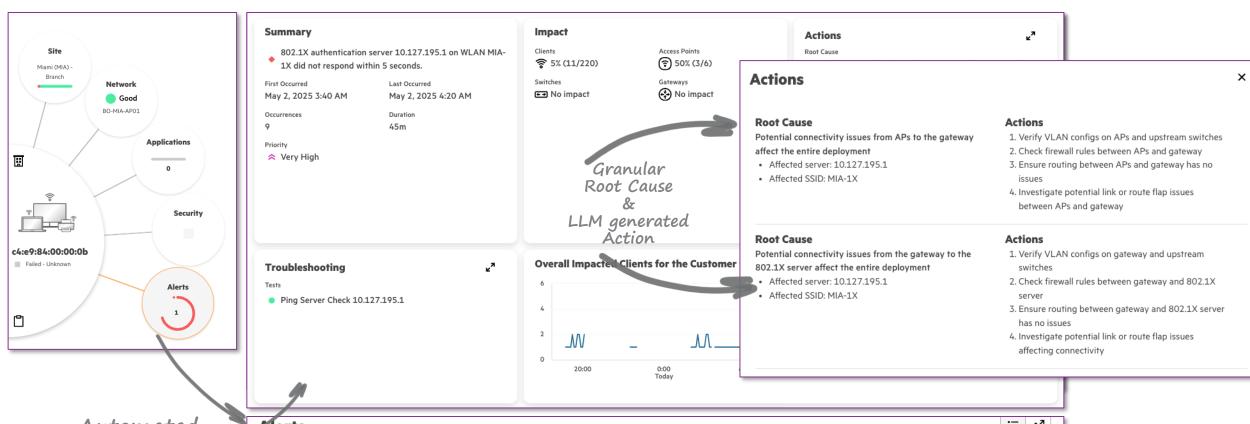
- Event-to-insight in <5 minutes with near realtime alerts, speeding up MTTR
- Full-stack correlation with precise rootcause, recommendation and impact
- Reduced alert fatigue with consolidated list of triggered events
- Assurance indicators for device health and client experience for quick diagnosis

New Central Alerts Overview



on any KPI

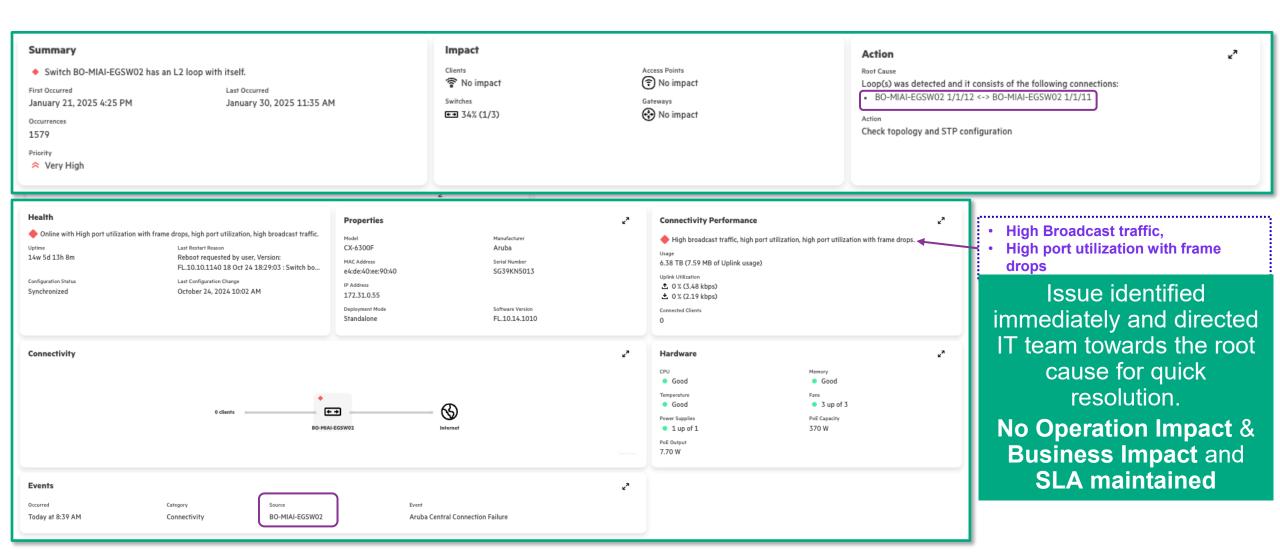
New Central Alerts - enables faster troubleshooting



Automated Troubleshooting Steps*

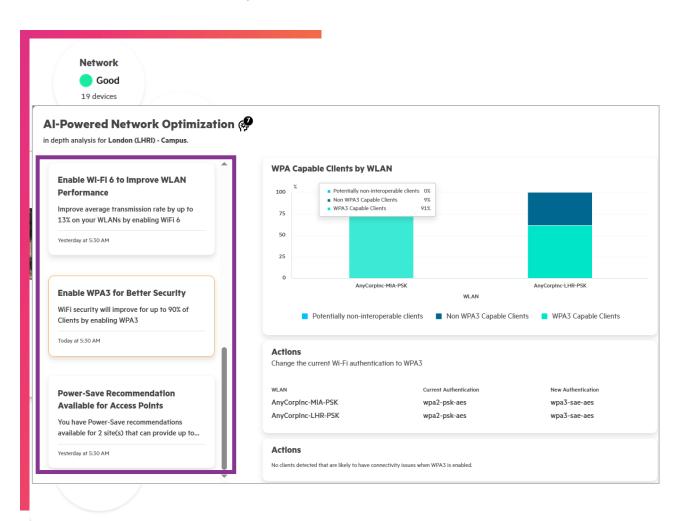


New Central Alerts – Loop Detection



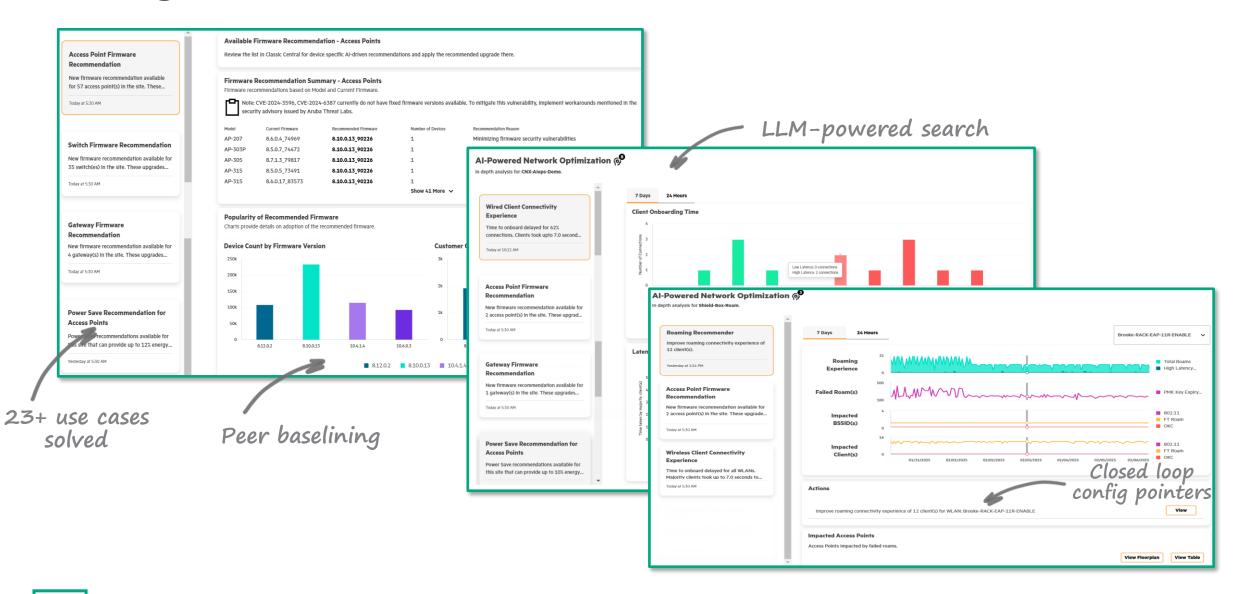
Al-powered recommendations

Free up valuable IT cycles and reduce risk with proactive optimization insights



- Custom, actionable recommendations at a global/per-site basis
- Al/ML models trained and re-trained weekly on data from anonymized peer groups with similar environments
- Examples
 - Firmware Recommendations
 - Enable Wi-Fi 6 to Improve Wi-Fi Experience
 - Enable WPA3 for Better Security
 - IoT Policy Optimization
 - Coverage Hole Detection
 - DFS
 - Roaming
 - Abnormal Data Upload/Download
 - Client Connection Times wired and wireless
 - Save Power Using Green AP
 - Improve Wi-Fi Performance using 6GHz
 - Probe Threshold Recommendation
 - Application Performance

Al Insights at a Glance



New Central HOL

https://console.greenlake.hpe.com

Use SSO for login; onecon2025@arubademo.net/OneCon2025@

Lab guide link: https://www.dropbox.com/scl/fi/bq4lzx86hixep4a28yepg/New-Central-Troubleshooting-via-DXP-LabGuide-v1.4-CUSTOMER .pdf?rlkey=o8iel5uecierezhdu416wwi07&st=6a2i7ghs&dl=0

Lab guide QR code

