



**Hewlett Packard
Enterprise**

HPE Aruba Networking Day

January 30th, 2025



Hewlett Packard
Enterprise

HPE Aruba Networking Central



Pedro Lourenço

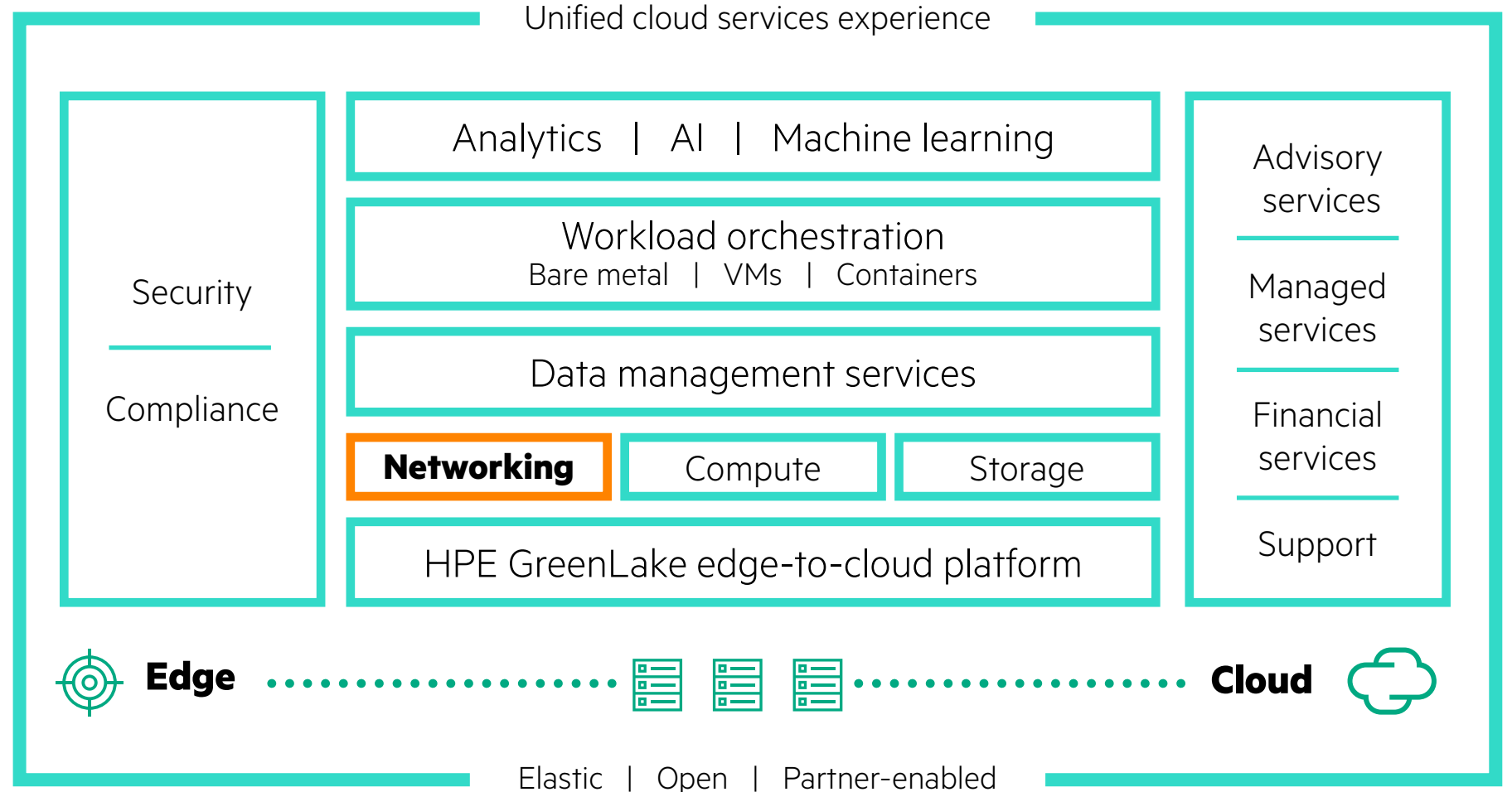
Pre Sales

January 30th, 2025

HPE's Intelligent Edge business unit

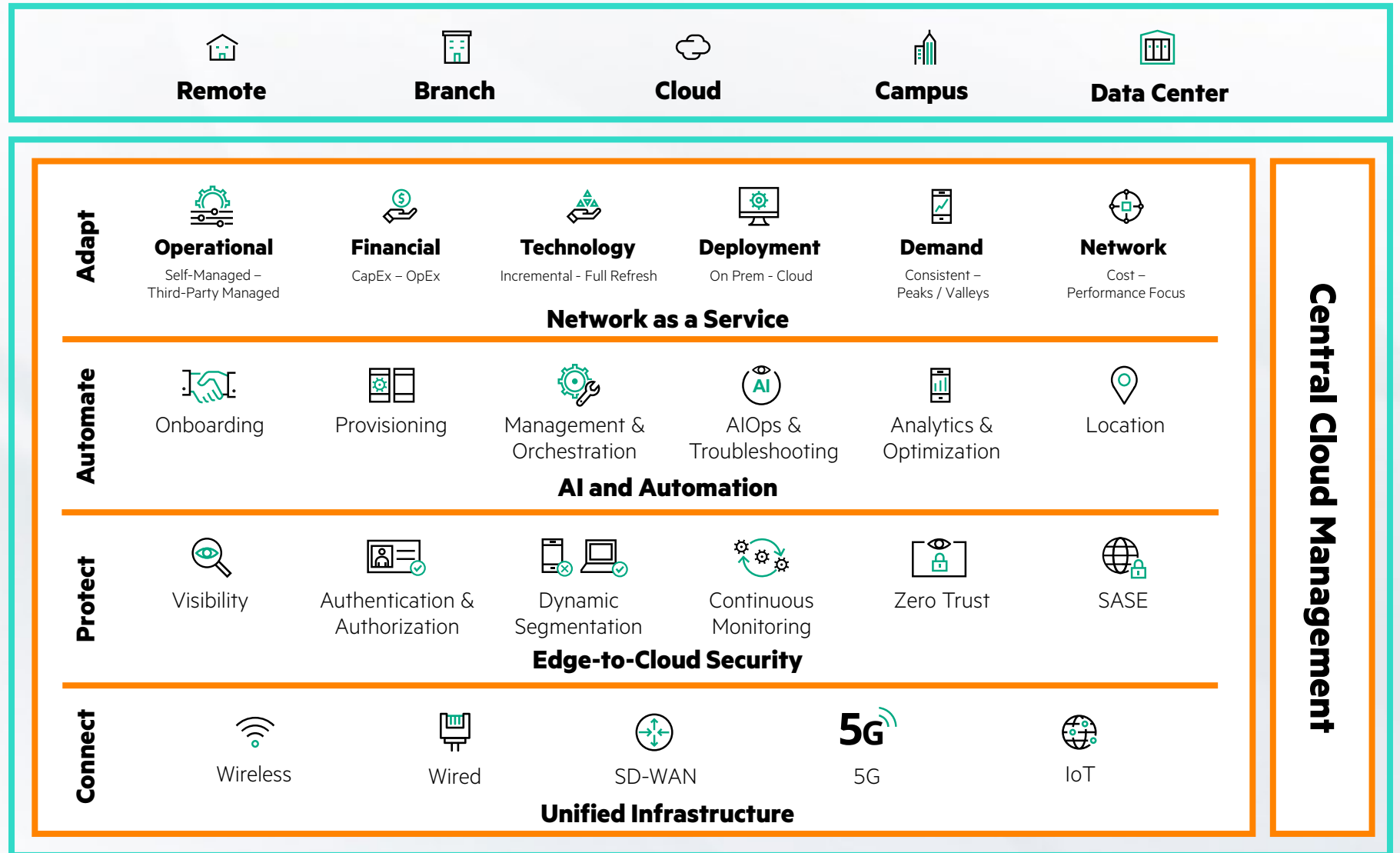
Founded in 2002

**Hewlett Packard
Enterprise
The Edge-to-Cloud
Company**



Orchestrating network services from edge-to-cloud

HPE Aruba Networking
**Powered
by ESP**
(Edge Services Platform)



Aruba Central

Unified infrastructure management with AI-powered automation

Cloud-native Single Pane of Glass

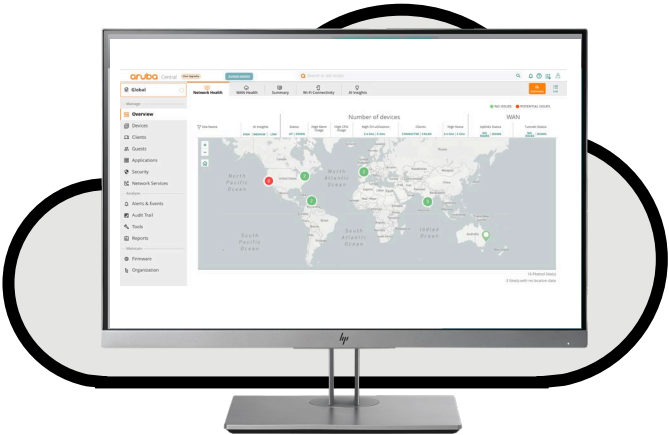

REMOTE


BRANCH


CLOUD


CAMPUS


DATA CENTER

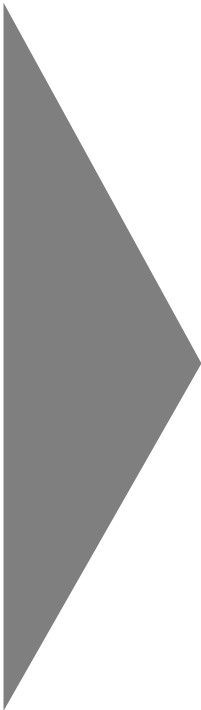


Deployment Flexibility


SaaS


On-Premises


Managed Services



Extensibility


Microservices


APIs


Webhooks

AI-Powered Analytics & Automation


Onboarding


Provisioning


Orchestration


Analytics


Contact Tracing

Built-in Security


Unified Threat Management


Authentication


Continuous Monitoring


Policy Enforcement


Visibility

Unified Infrastructure Management


APs

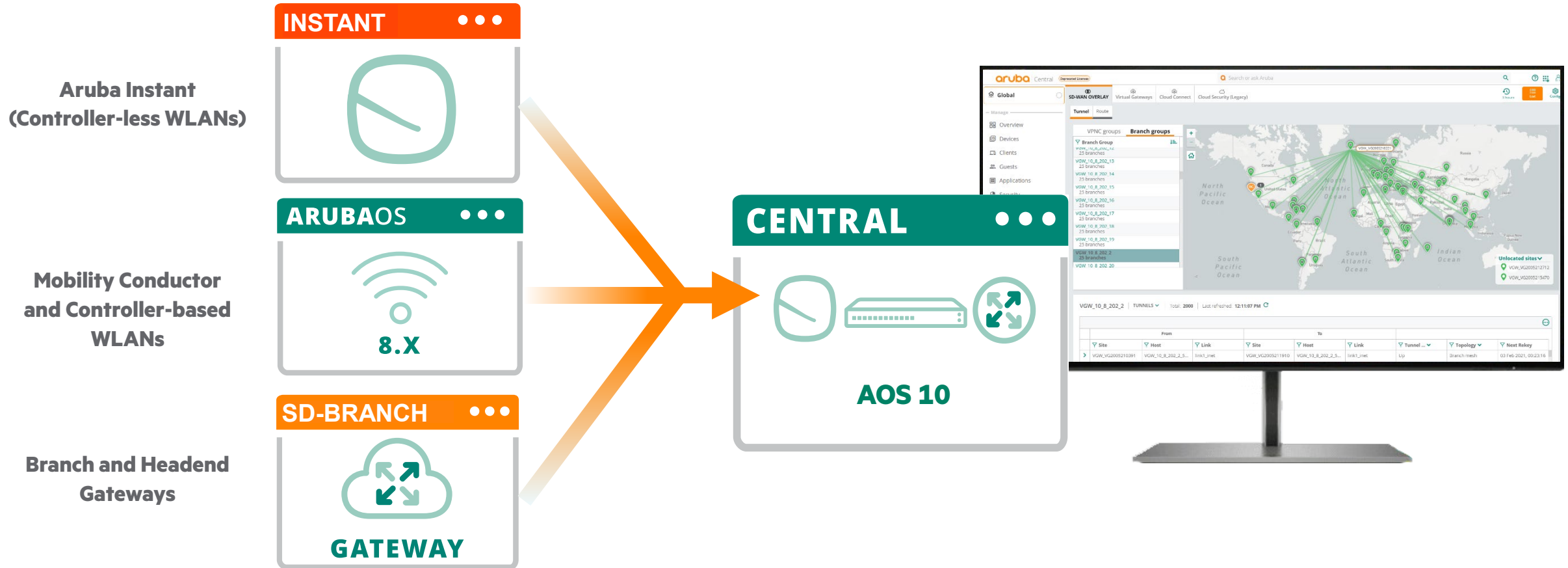

Switches


SD-WAN Gateways

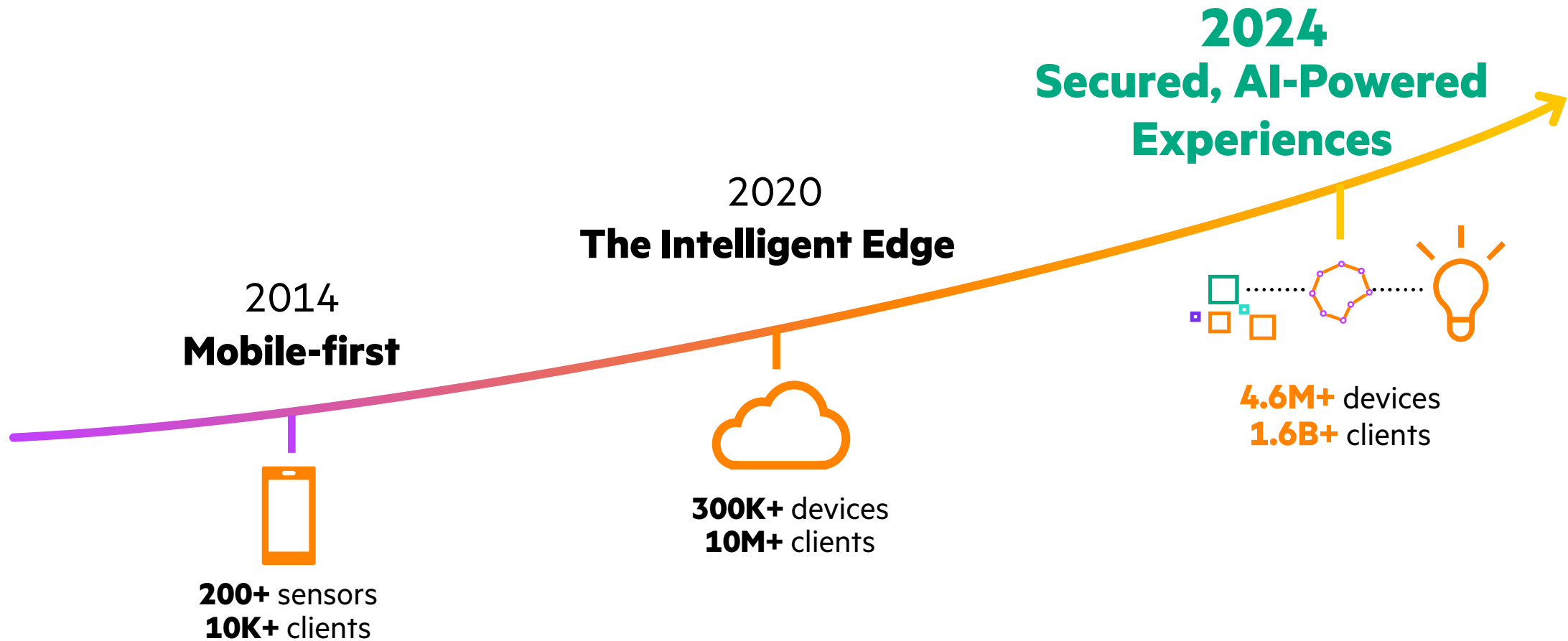

VPN

AOS 10 - Unified Solution for Edge-to-cloud Secure Communications

Simplified management and orchestration with AOS 10 & Aruba Central



Evolution of Central



Acquisitions



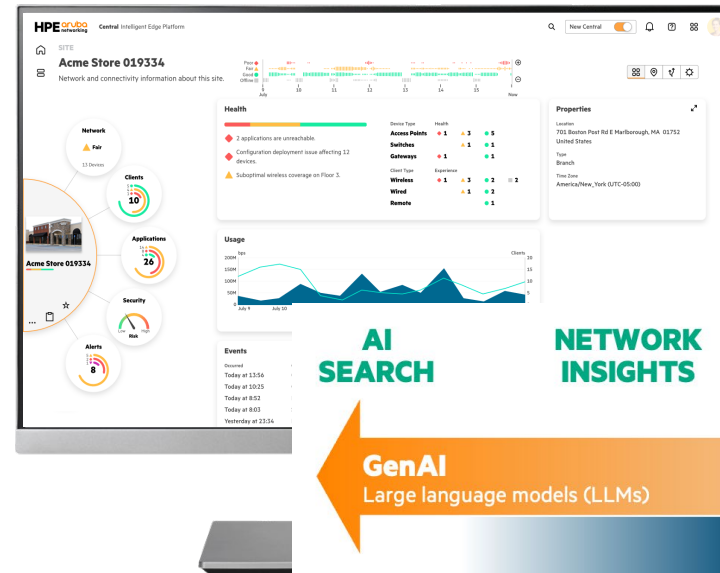
18X Gartner® Magic Quadrant™ Leader

HPE Aruba Central: Learns from the Industry's Largest Data Lake

4.6M+
Devices

1.6B+
Clients

30+
Industry Verticals



**AI
SEARCH**

**NETWORK
INSIGHTS**

**AI
ASSIST**

**CLIENT
INSIGHTS**

**INCIDENT
DETECTION**

GenAI
Large language models (LLMs)

Classification AI
Clustering, correlation, regressions...



AI Ops For Improved Troubleshooting And Issue Resolution

Automation Reduces MTTR, Increases IT Efficiency

POWERFUL FEATURES

AI Search

Natural language queries for fast onboarding & troubleshooting

Network Insights

Proactive network anomaly detection and optimization

AI Assist

Automated Aruba TAC trouble ticket generation

Client Insights

Accurate IoT profiling to drive capacity planning & security policies

Application Insights

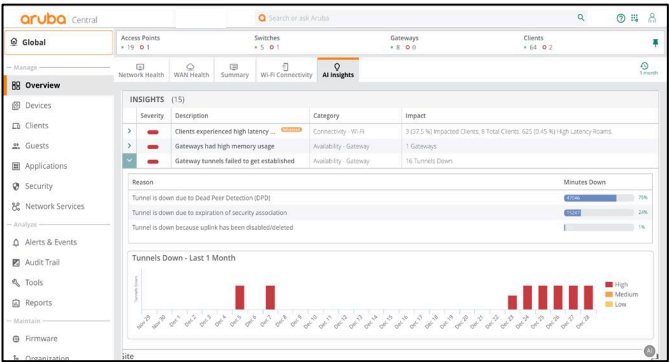
Automated application-level performance monitoring

Wi-Fi, Wired, WAN Infrastructure: Planning, Setup, Troubleshooting & Optimization

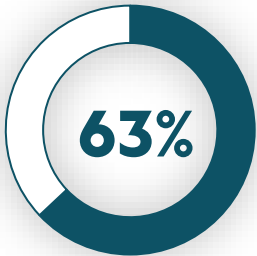
Security: Profiles / Behavior

User: Application / Connectivity

POWERFUL RESULTS

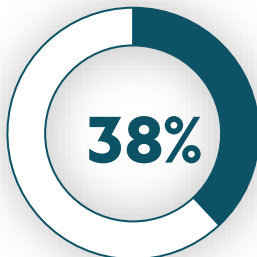


Faster MTTR



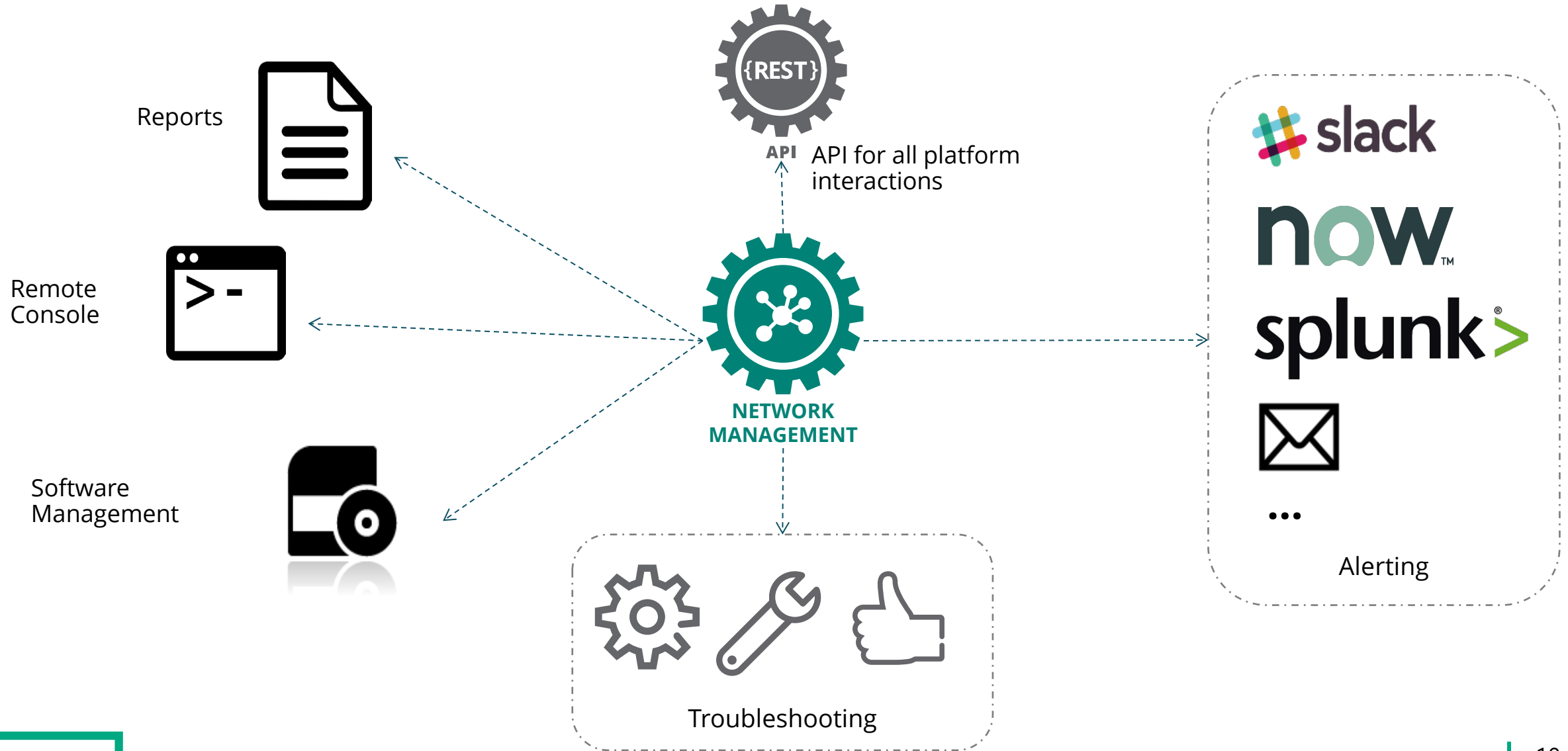
Of surveyed customers resolve network or user issues at least **50%** faster

Fewer Support Tickets



Of surveyed customers have reduced IT trouble tickets by at least **50%**

More than simple management



Customer Reference

BEWI

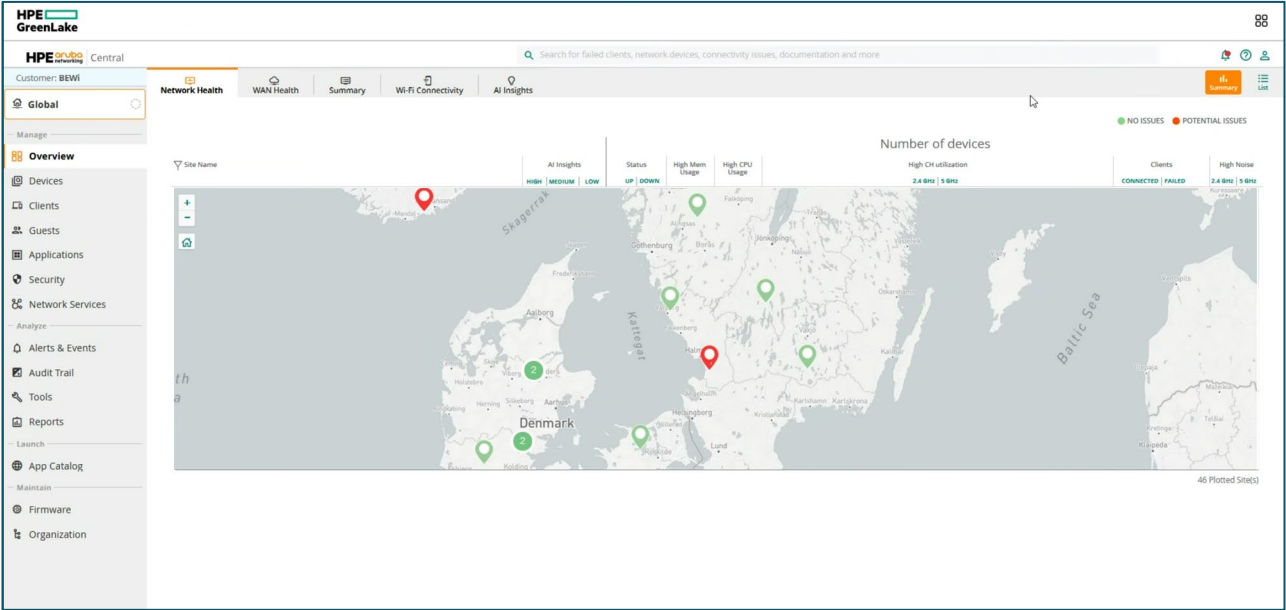
BEWI is a leading international provider of packaging, components and insulation solutions. The commitment to sustainability is integrated throughout the value chain, from production of raw materials and end goods to recycling.

Operação Multinacional

- Portugal
- Espanha
- Holanda
- Dinamarca
- Bélgica
- Noruega
- Suécia
- Finlândia
- Inglaterra
- Alemanha

- **10** Países
- **46** sites
- **+400** Dispositivos
- **+2.000** clientes
- Operação **24x7**

Equipa de Operação:
2 pessoas



Specs favoritos da equipa técnica

- ✓ Switches
- ✓ Access points
- ✓ Azure SD-Branch Gateways
- ✓ Microbranch APs
- ✓ ClearPass Policy Manager
- Upgrades e recomendações da plataforma
- IP Tracking dos clientes simplifica localização
- Ferramentas de Troubleshooting embebidas
- Cable Test L1 essencial para quem gere LAN
- Consola directa
- Visibilidade

NEXT-GENERATION CENTRAL

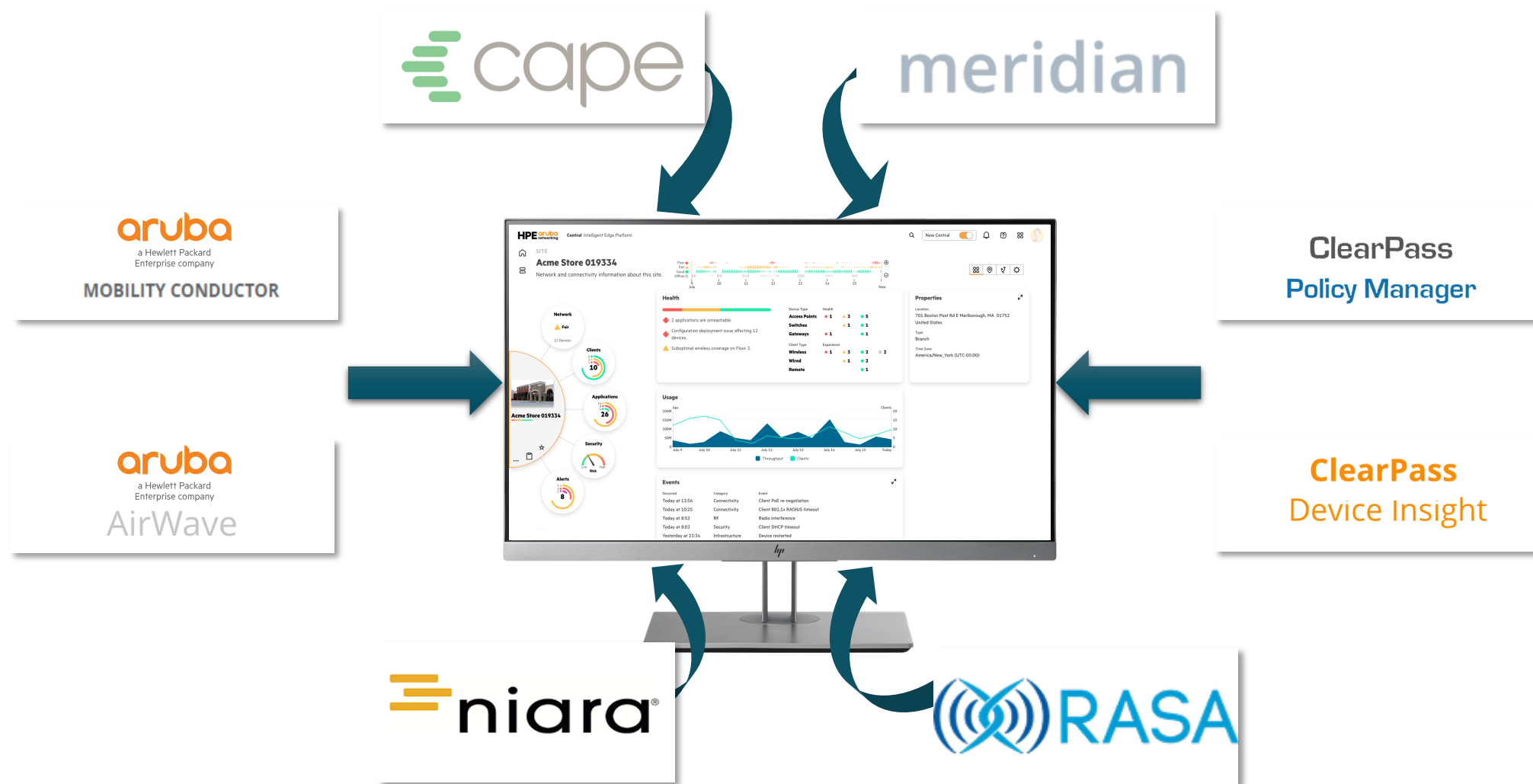
aka

Central 3.0

**Cooking Properly
to Serve You Well**



New Central: The Best From the Past and the Future



Introducing the next generation of Central

Future-ready. AI-powered. Operator-centric

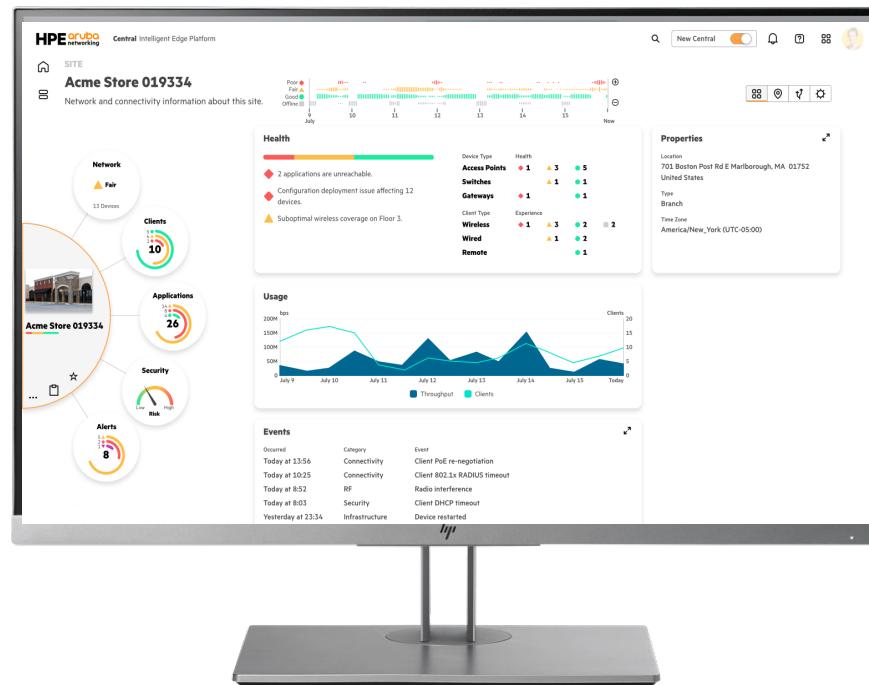


Maximize IT efficiency

Contextual representation of data based on **user-intent**, minimizing manual correlation

Operational simplicity

Software-defined, intent-based and **device agnostic** configuration workflows



Reduced MTTR

Powerful troubleshooting tools, and AI-driven pragmatic assistance for **faster root cause analysis**

Enhanced programmability

API-first model for interoperability and automation

! Security !

Intuitive Network Command Center

Powerful Attention Grabbing 'Cockpit' View

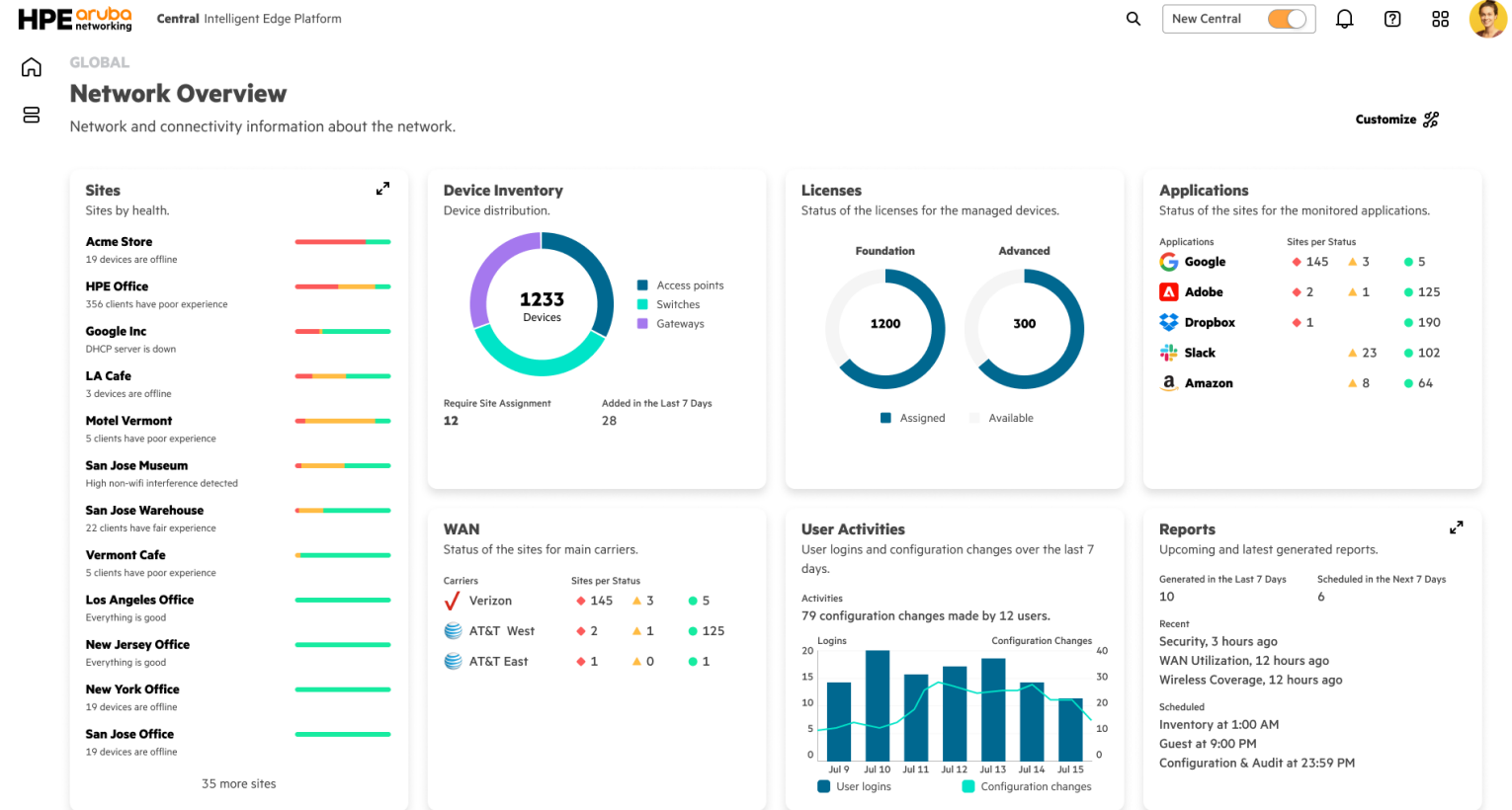


Intuitive
data views

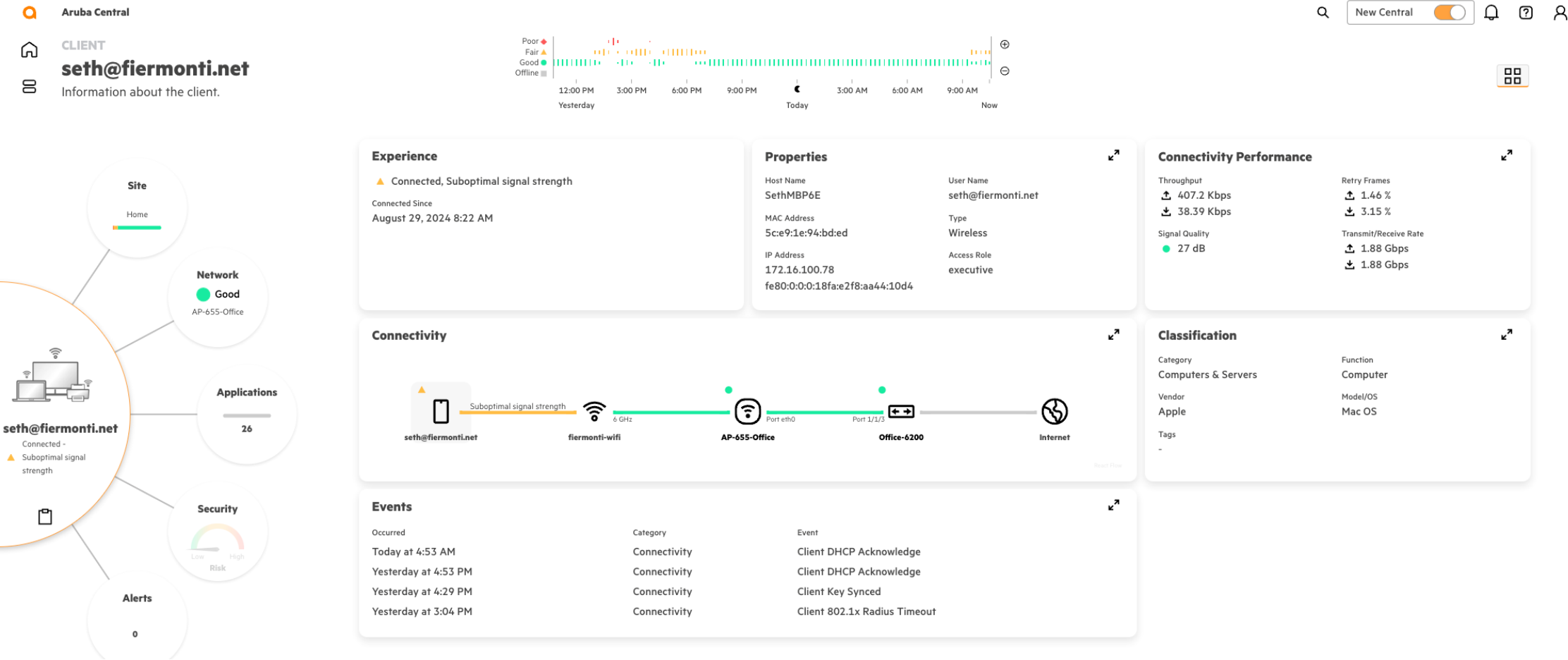
Unified network view for swift site health, application assessment and more

Intelligent indicators highlight immediate-attention issues

Optimized 'to-do' list for efficient network operation



One-Stop Experience Views



Progressive 'Sunburst' Topology Views

Enhance Troubleshooting and Analysis with a Bird's Eye View



Intuitive
data views



Root cause and
recommendation



Graphical
aids

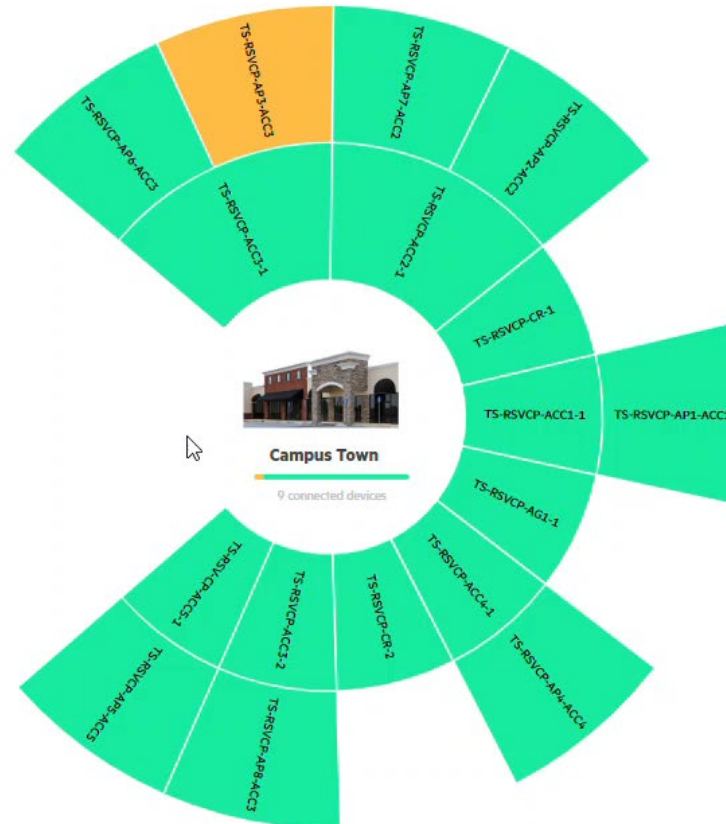
Intelligent visualization of physical and
logical network connectivity

Simplifies **large network visualization**,
overcoming node and link overload

Robust filters and adjustable reference
points for enhanced network exploration

Network Engineer, Day 0/1

Understanding a large, complex network
to make a configuration change



Layers

Select Information to Display

Devices

Health

Type

Devices Health

Good

Fair

Poor

Industry-first 'Network Time Travel'

Helping Operators Identify 'What changed? When? Where?'

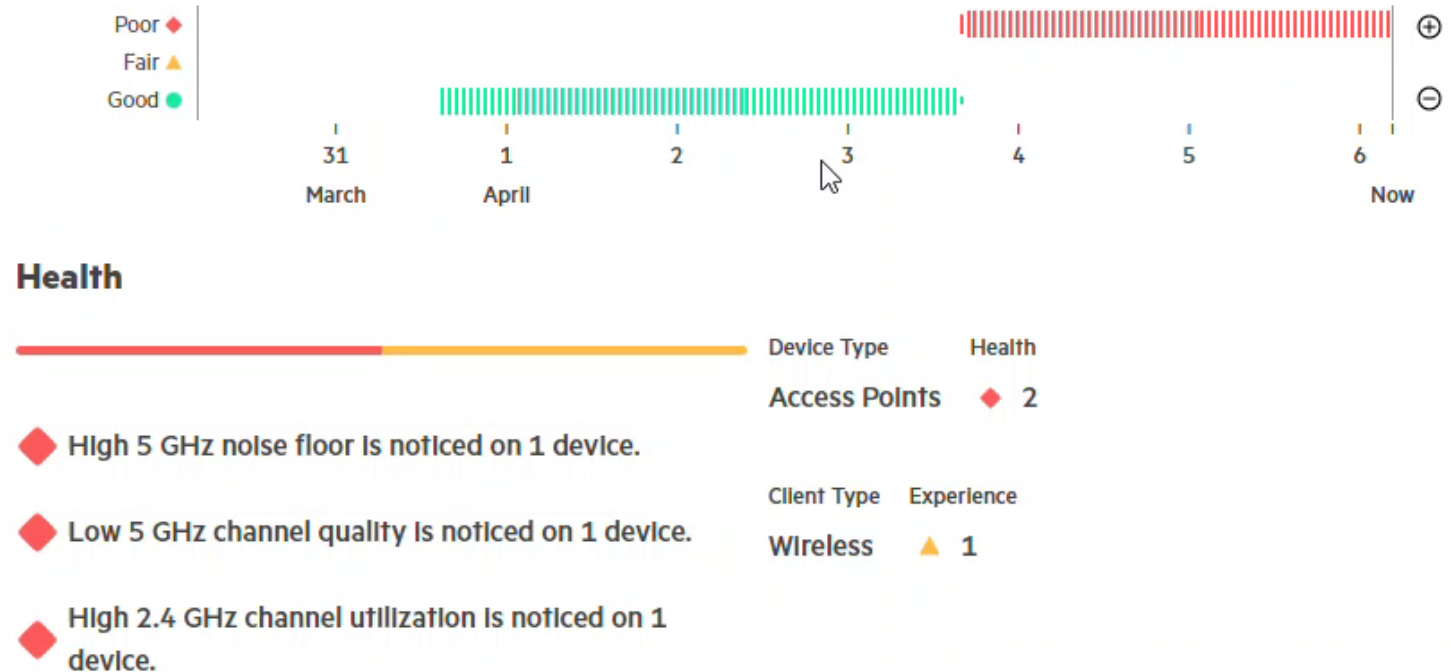


Intuitive
data views

'Point in time' holistic view to
troubleshoot difficult issues

Deep correlation surpassing
manual packet capture analysis

Temporal filters allow for a 7-day
jump back in time with **1-minute
granularity**

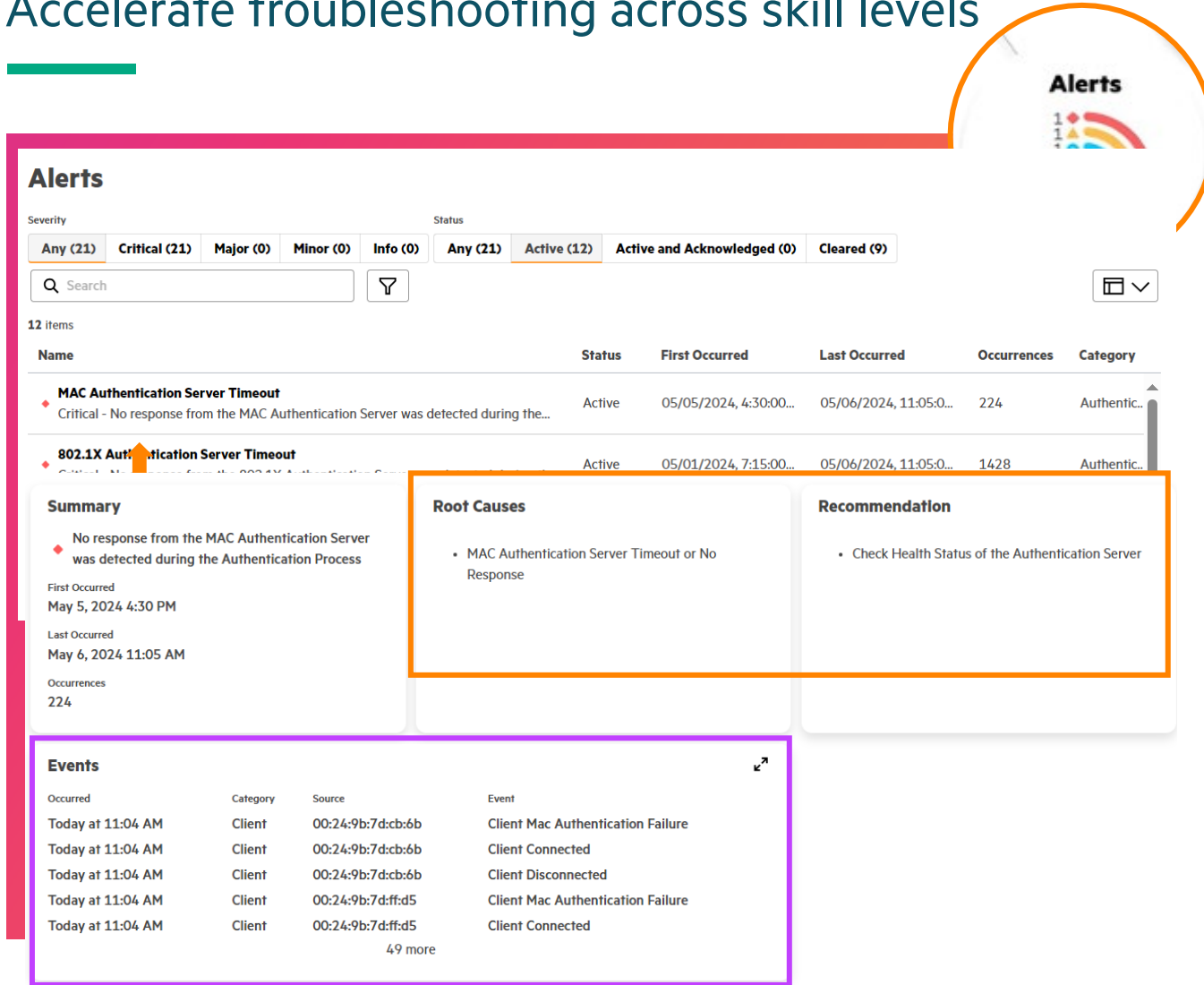


L2/L3 Support, Domain Expert

Troubleshooting a sporadic issue by trying to manually piece together information with past events, logs and reports across multiple systems

AI-driven assurance and alerts

Accelerate troubleshooting across skill levels



The screenshot displays the 'Alerts' dashboard. At the top, there's a search bar and filters for Severity (Any, Critical, Major, Minor, Info) and Status (Any, Active, Active and Acknowledged, Cleared). Below this is a table of 12 items. The first alert is 'MAC Authentication Server Timeout' (Critical, Active, 224 occurrences). The second alert is '802.1X Authentication Server Timeout' (Active, 1428 occurrences). Below the table, there are three panels: 'Summary', 'Root Causes', and 'Recommendation'. The 'Summary' panel shows the first and last occurrence times and the number of occurrences. The 'Root Causes' panel lists 'MAC Authentication Server Timeout or No Response'. The 'Recommendation' panel suggests 'Check Health Status of the Authentication Server'. At the bottom, there's an 'Events' table showing a list of events with columns for Occurred, Category, Source, and Event.

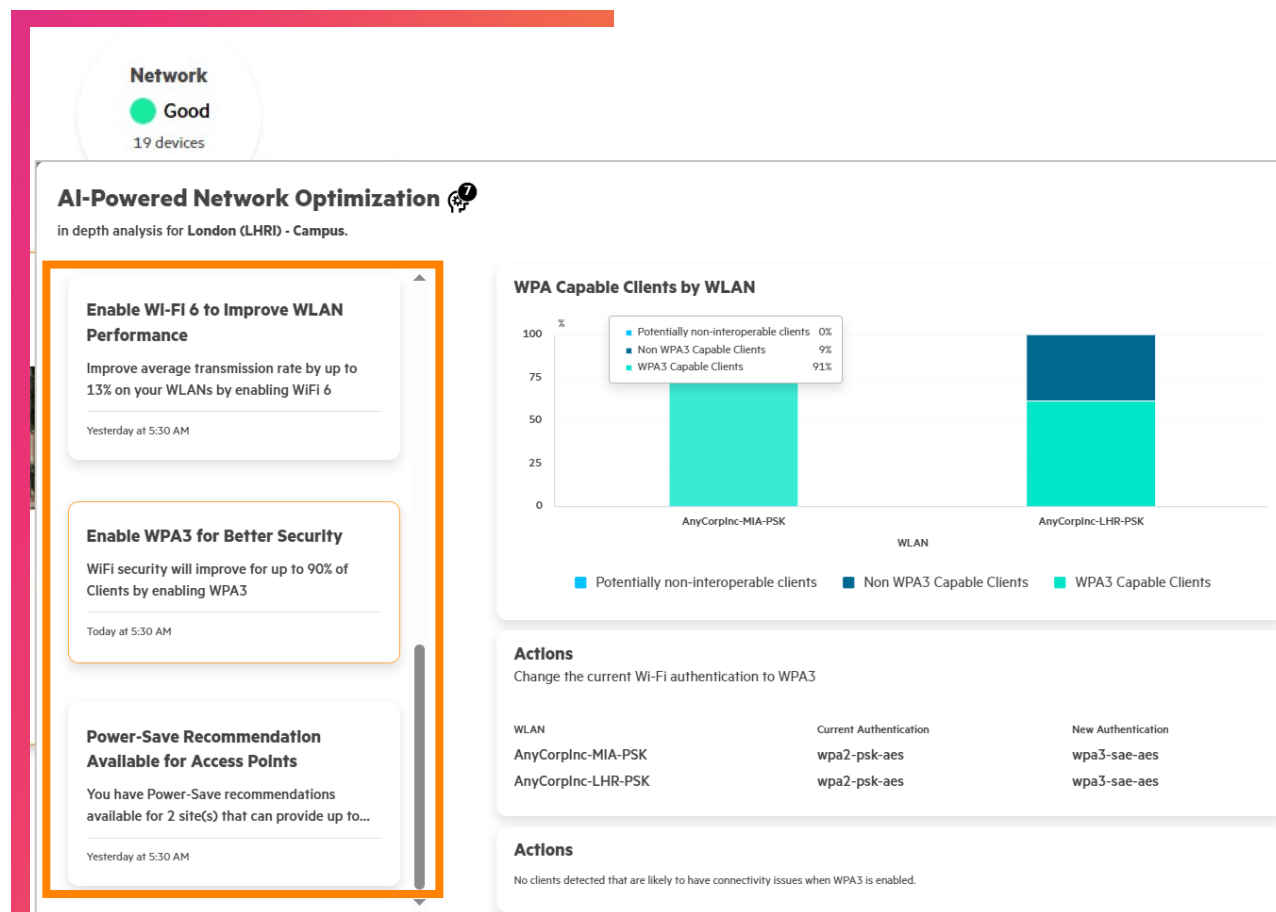
Name	Status	First Occurred	Last Occurred	Occurrences	Category
MAC Authentication Server Timeout	Active	05/05/2024, 4:30:00...	05/06/2024, 11:05:0...	224	Authentic...
802.1X Authentication Server Timeout	Active	05/01/2024, 7:15:00...	05/06/2024, 11:05:0...	1428	Authentic...

Occurred	Category	Source	Event
Today at 11:04 AM	Client	00:24:9b:7d:cb:6b	Client Mac Authentication Failure
Today at 11:04 AM	Client	00:24:9b:7d:cb:6b	Client Connected
Today at 11:04 AM	Client	00:24:9b:7d:cb:6b	Client Disconnected
Today at 11:04 AM	Client	00:24:9b:7d:ff:d5	Client Mac Authentication Failure
Today at 11:04 AM	Client	00:24:9b:7d:ff:d5	Client Connected

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

AI-powered recommendations

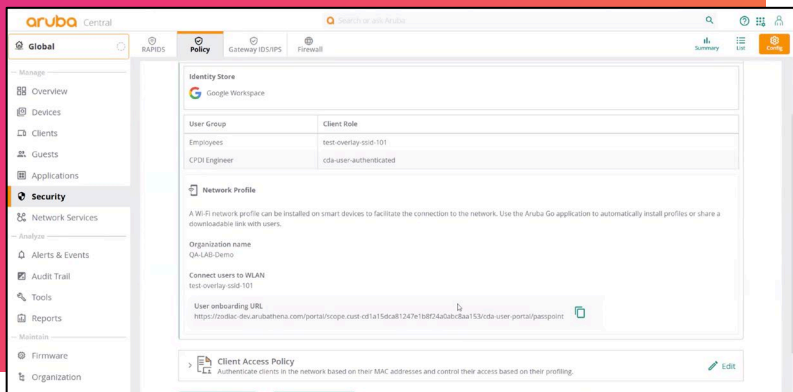
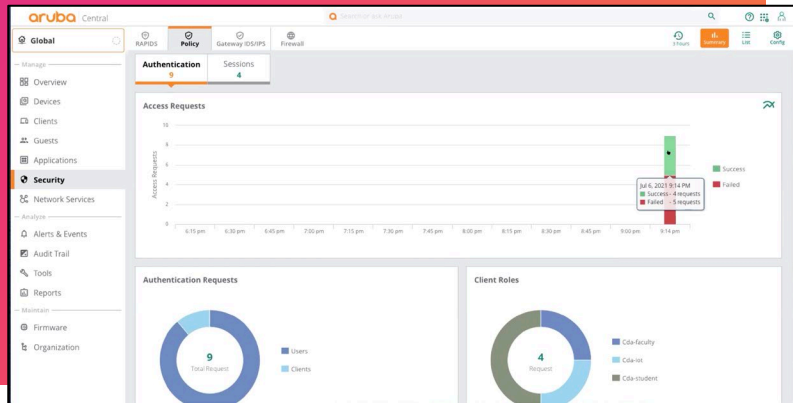
Free up valuable IT cycles and reduce risk with proactive optimization insights



- **Custom, actionable recommendations** at a global/per-site basis
- AI/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
 - Abnormal Data Upload/Download
 - Client Connection Times – wired and wireless
 - Save Power Using AP Power Save
 - Improve Wi-Fi Performance using 6GHz
 - Probe Threshold Recommendation
 - Application Performance

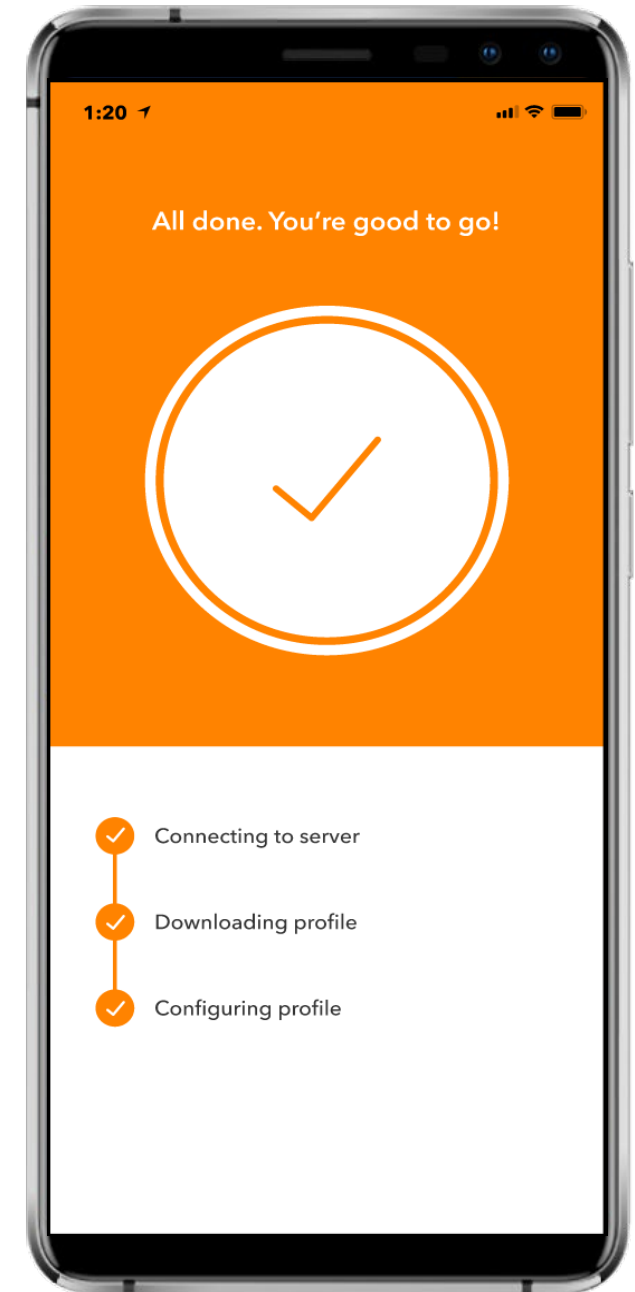
Cloud Authentication & Policy

Seamless onboarding and secure role-based policy



Key Capabilities

- ❑ Simplified and efficient workflows to configure and manage onboarding
- ❑ Visibility into authentication traffic patterns through dashboards
- ❑ Authentication validated against cloud identity store granting access to Wi-Fi
- ❑ Authorization of users and their devices enforced using role-based policies
- ❑ Simplified end-user experience with client app

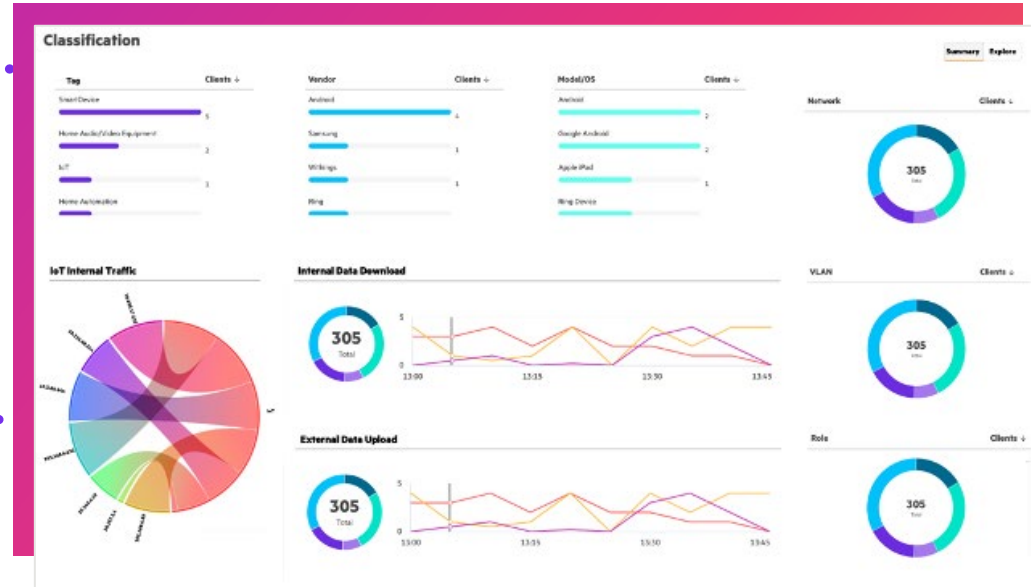


Client Insights - AI-powered visibility and profiling

>1.5B

clients profiled
and counting

Included in **Central
Foundational** license



99%

profiling accuracy

<5%

unknowns

ML-powered behavioral analysis
for continuous monitoring

Traffic flow visibility

~3700 apps

for segmentation accuracy

Client Insights - AI-driven IoT behavior analysis

Enhance endpoint visibility for Zero Trust networking

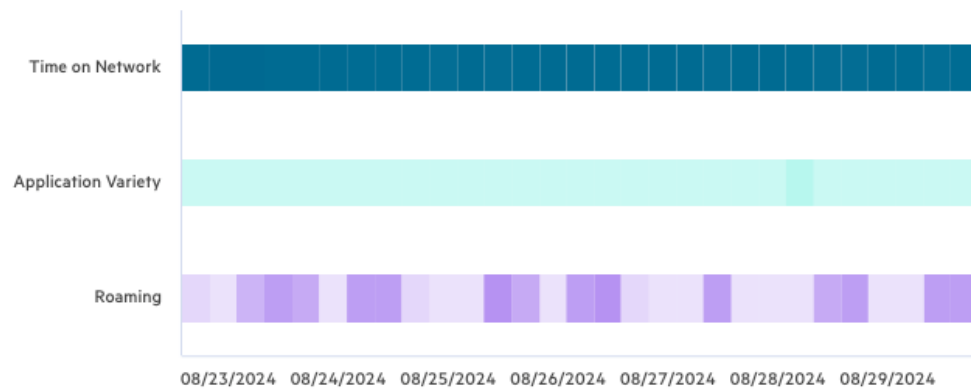
Who is on the network ?



Behavior of IoT clients like Zebra scanners

Behavior Analysis

An IoT tag has been applied based on client behavior and attributes over a multi-day time period.



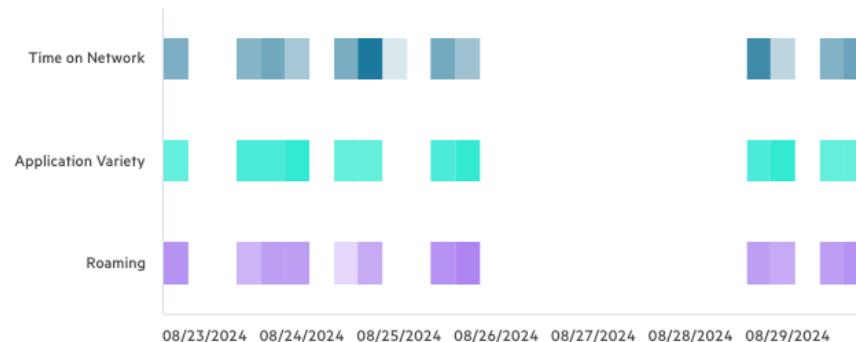
Zebra scanner is on the network 24/7 for the past week

Application usage is low and repetitive

Behavior of non-IoT clients like Apple iPhones

Behavior Analysis

Based on client behavior over a multi-day time period, an IoT tag has not been applied.



Apple iPhone is seldom on the network indicating it is tied to a user

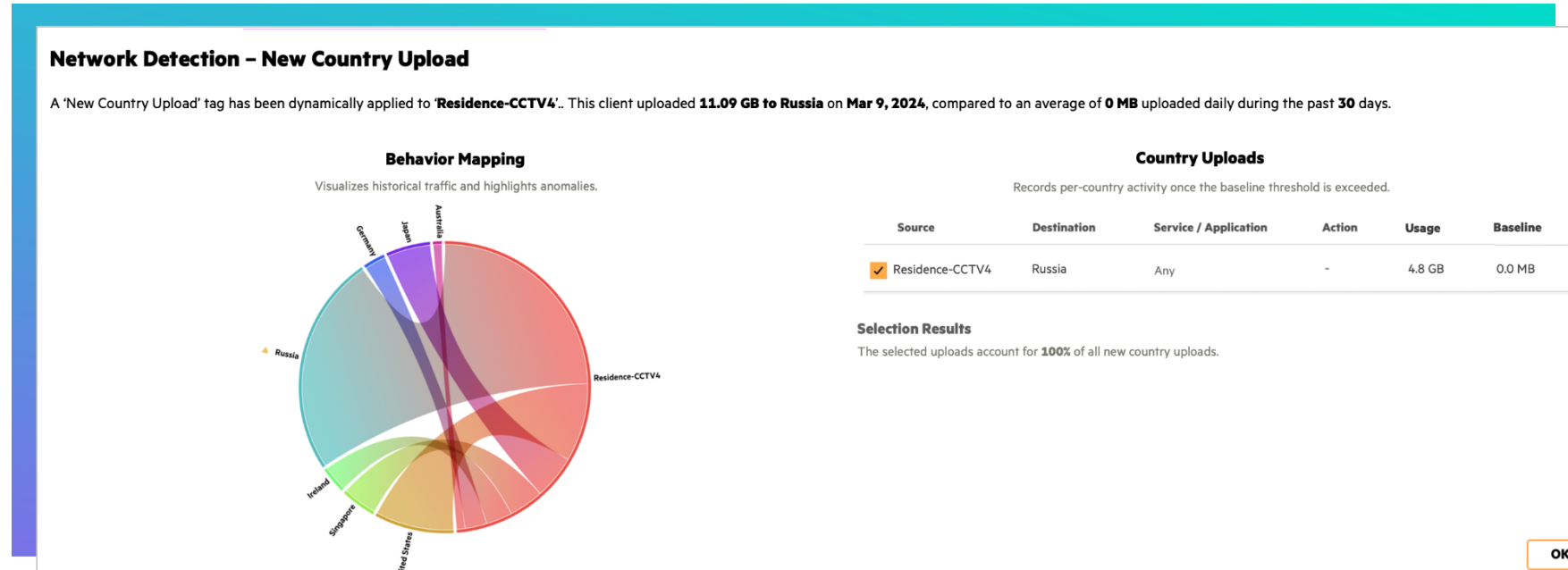
Infrequent but high application usage



Anomalous behavior detection

Abnormal data download, uploads to new country

What are they doing
on the network ?



- Visualize **anomalous activity** by clients such as abnormal data downloads and geolocation compliance risks
- Based on knowledge of **historical baselines** per IoT endpoint
- Clients are **automatically tagged** to aid seamless policy workflows with NAC solutions

Get Ready for Public Preview!

- Public Preview is available to customers on a rolling basis.
- In parallel, Select Availability enables configuration features.
- Select Availability is limited to customers who are allowlisted based on certain HPE Aruba Networking criteria.
- If you are interested in Select Availability, contact your local Aruba representative for more information.

Public Preview

Monitoring

- Device and client views and trends
- Floorplan and topology views
- Client profiling and classification
- Application performance
- Composite health metrics
- Audit Logs

Reporting

- Customizable Alerts
- Insights / Recommenders
- Customizable Reports

Troubleshooting

- Natural language-based search
- Troubleshooting toolsets

Extensions

- Virtualization: vSphere
- UEM: Intune and Workspace ONE
- SIEM/SOAR: Splunk

Device Support for MRT

- AOS 8 IAP
- AOS 10 AP
- AOS 10 Gateway
- AOS-S Switches
- AOS-CX Switches

Select Availability

Configuration

- Unified Configuration (UI and API) across AP/Switch/Gateway
- Hierarchical Configuration

Device Support

- AOS 10 AP-only configuration

Upcoming Device Support

- AOS 10 Gateway configuration
- AOS-CX Switch configuration
- AOS-S Switch configuration



Thank you

