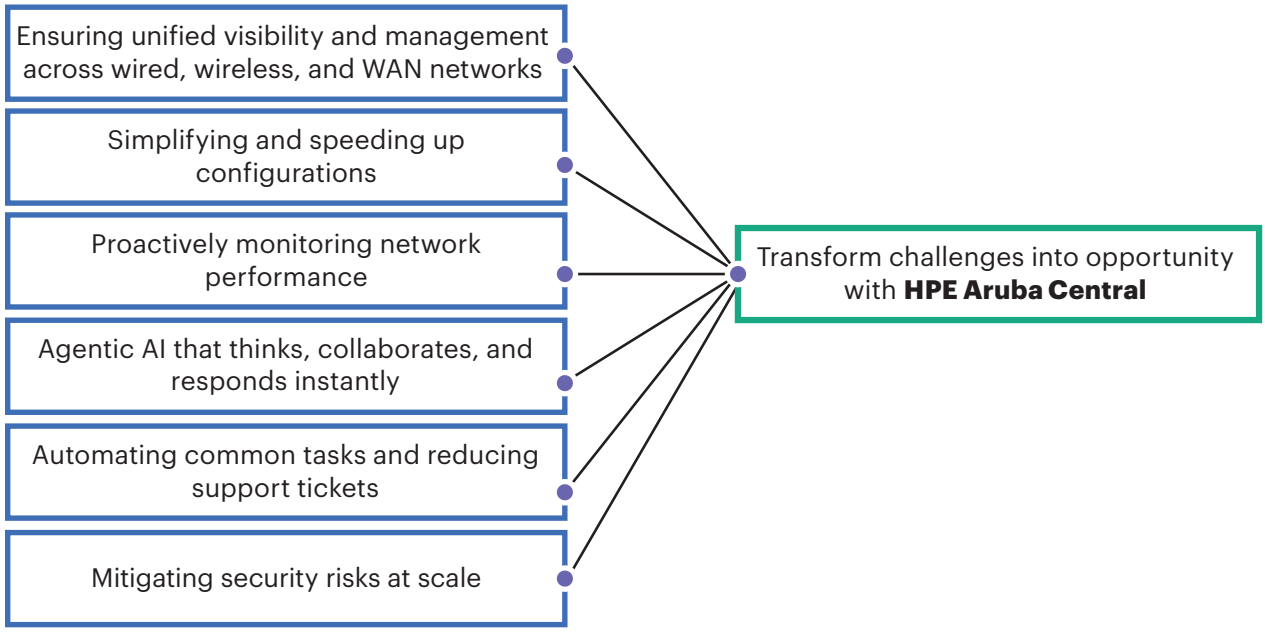
Solution overview

HPE ARUBA CENTRAL

AI-native agentic intelligence, self-driving automation, and fortified security across branch, campus, data center, and IoT environments.

Connect, protect, and automate your networks at scale

Modern networks are the foundation for delivering exceptional digital experiences, but managing them presents challenges due to demands for new use cases, reliability, speed, security, and seamless connectivity. Network operators play a crucial role in managing the entire lifecycle of a network. To succeed, they need advanced tools and insights to meet business demands and ensure optimal network performance. However, they also encounter many challenges, such as:



HPE Aruba Central delivers cloud-scale network management

Built on a microservices architecture powered by GreenLake cloud, HPE Aruba Central delivers a unified management solution for network devices across campus, branch, remote, and data center locations. It simplifies operations and ensures secure, high-performance networking and comprehensive analytics for devices, applications, and data catering to customers of all sizes.

As customers drive innovation through significant technology investments to boost growth and competitiveness, network connectivity use cases continue to multiply. To meet these evolving needs, HPE Aruba Central has been enhanced with a modernized GUI, expanded AIOps toolsets, improved network device configuration, built-in security, agentic mesh technology and more—designed to maximize productivity and streamline operations.

Delivering results for customers

HPE Aruba Networking has a proven track record of delivering secure and reliable connectivity across diverse sectors. With over 8 years of AI-native innovation and telemetry from millions of devices and billions of endpoints, our solution provides significant quantitative benefits and keeps customers at the forefront of technology. For more details, refer to AI in networking.

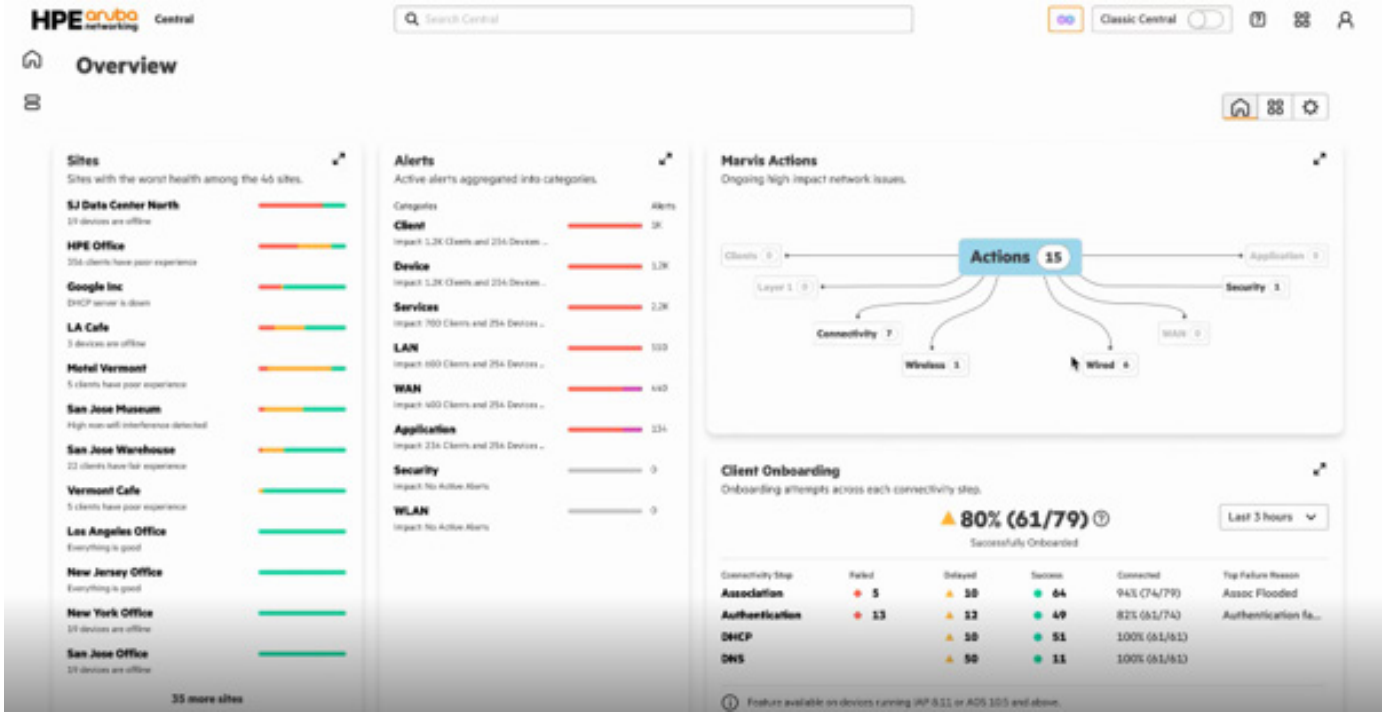


Figure 1. Intuitive graphical user interface

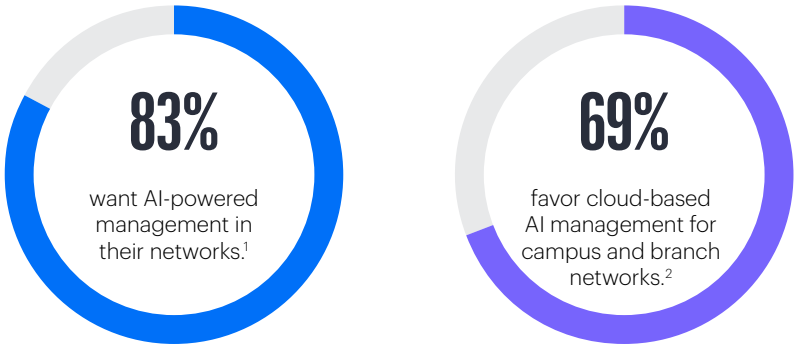


Figure 2. Worldwide AI in Networking Special Report, 2025

Network management enhanced for an AI and IoT era

To keep pace with rapid AI and IoT advancements, HPE Aruba Central includes enhancements in many areas such as:

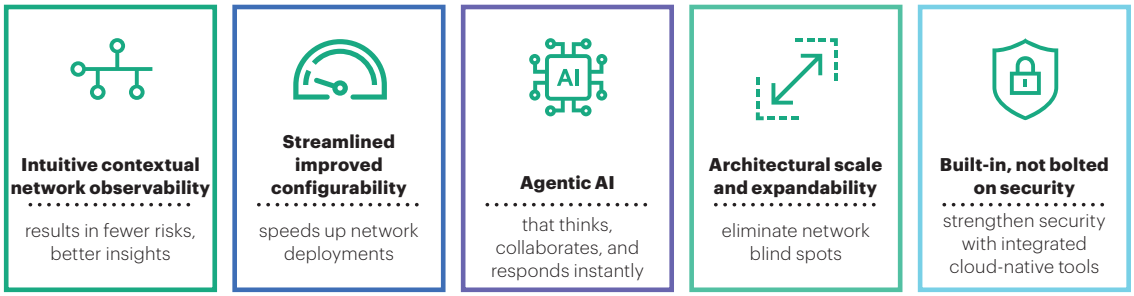


Figure 3. Core capabilities of HPE Aruba Central

[1,2] Worldwide AI in Networking Special Report

Intuitive contextual observability

HPE Aruba Central delivers a holistic, connectivity experience with enhanced network visibility and monitoring across devices, clients, and applications. By leveraging actionable telemetry from our data lake, this solution facilitates intelligent automation and continuous optimization, ensuring unparalleled efficiency and insights in the industry. Features include:

- **NOC dashboard:** Consolidates data across network entities with dynamic panels (Health, Usage, Event, and Properties) for a holistic view.
- **Marvis Actions:** Marvis Actions turns network data into decisive action. It uses AI-native insights to proactively identify, diagnose, and resolve network issues across wired, wireless, WAN, and data center environments—either with guided recommendations or fully autonomous self-driving remediation.
- **Comprehensive solar system view:** Correlates rich, blended information across sites, network devices, clients, and applications, simplifying navigation and discovery.
- **Health metrics:** Provides detailed point-in-time visibility across health, alerts, events, security, and operational changes, helping IT teams quickly correlate issues and reduce manual troubleshooting.
- **Topology link-node view:** Provides an intuitive, dynamic representation of network structures in a hierarchical tree format, offering rich context for troubleshooting and configuration.
- **Application visibility and security:** Monitors over 3,700 apps and integrates with BrightCloud for web content analysis. The consolidated application dashboard provides insights on top apps, websites, and security risks, enhancing troubleshooting and decision-making. Read the blog for more details.
- **Client roaming**: Delivers exceptional client roaming journey through floorplan that simulate each access-point handoff. This approach identifies delays, failures, and signal-quality issues that affect the user's roaming performance, enabling faster diagnosis and more seamless mobility.

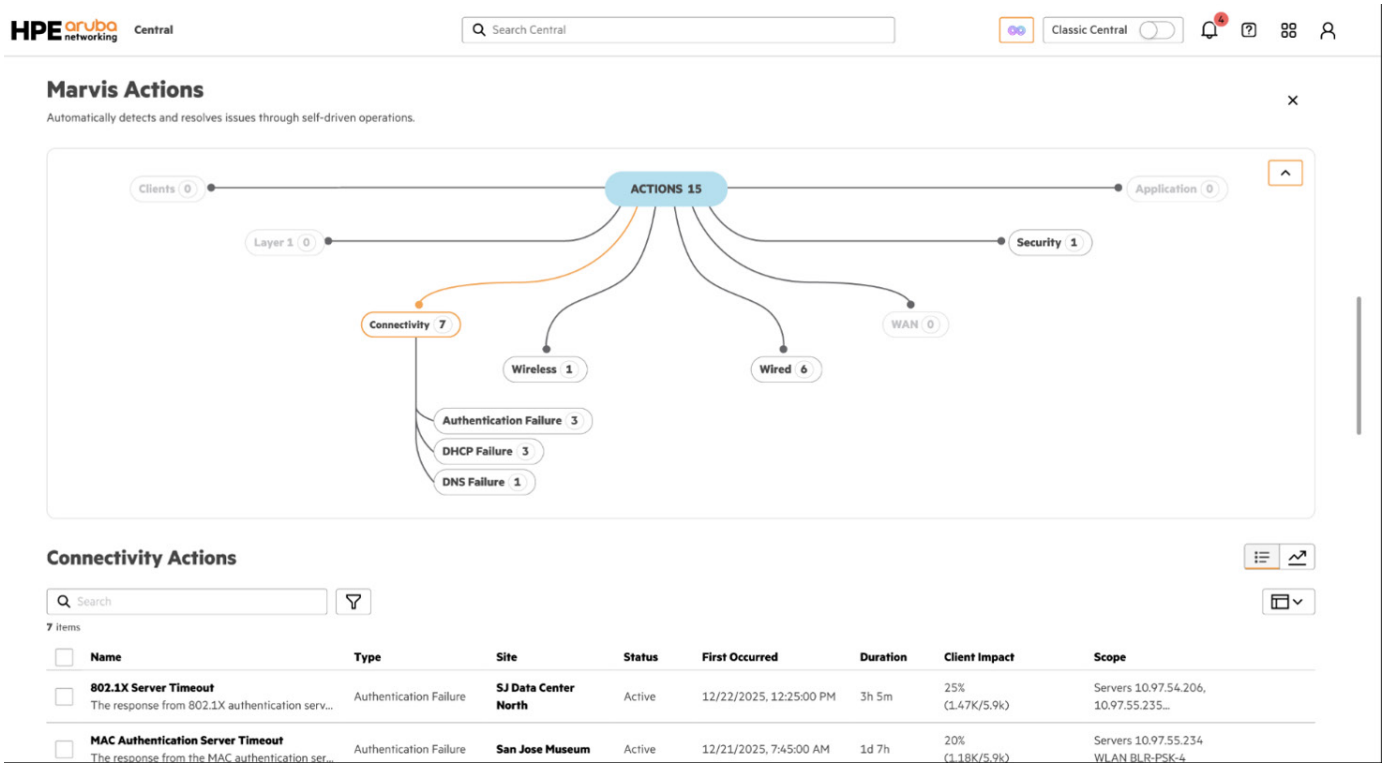


Figure 4. Marvis Actions

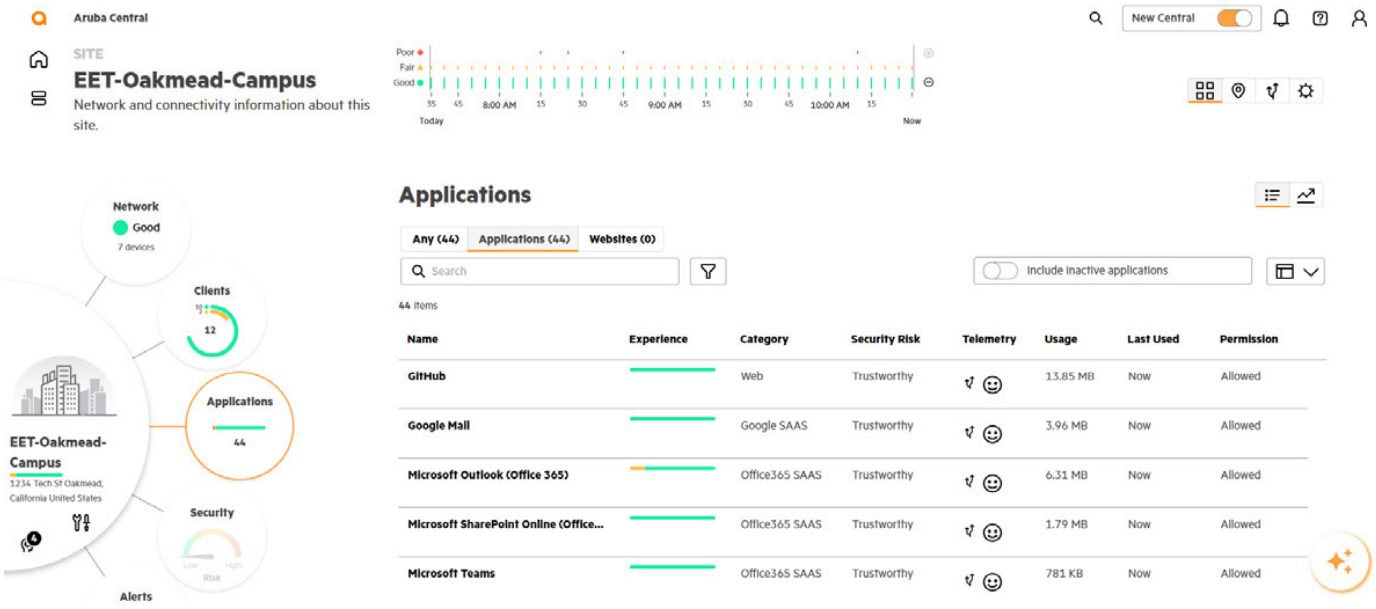


Figure 5. Application telemetry capabilities

Streamlined, improved configurability

Rapidly deploy network devices using new consolidated workflows to configure switches, gateways, and access points across multiple locations through a single configuration interface. Gone are the days of bespoke templates and configuration workflows that hamper scalability. For organizations that rely on DevOps automation, Central's APIs are device agnostic across multiple types, groups, and locations and have been revised for consistency of configuration in the following ways:

- **Hierarchical configuration:** Enables management of thousands of devices across multiple global regions and varied site types, while still providing the flexibility to fine-tune configurations at the site or even individual device level when required. It moves from broad, centralized definitions at the global level down to site-specific or device-specific overrides.

  This approach streamlines day-to-day administration and ensures a consistent, standardized configuration across the entire network.
- **Device-agnostic workflows:** Built on reusable and modular elements, Central enables granular customization and maintains consistency across deployments of any size, all while simplifying day-to-day operations
- **Built on reusable and modular elements**, Central enables granular customization and maintains consistency across deployments of any size, all while simplifying day-to-day operations.
- **100% API support:** Offers consistent, device-agnostic APIs across multiple types and locations, providing enhanced programmability and seamless integration with HPE Aruba Networking and third-party platforms. Read the blog for more details.

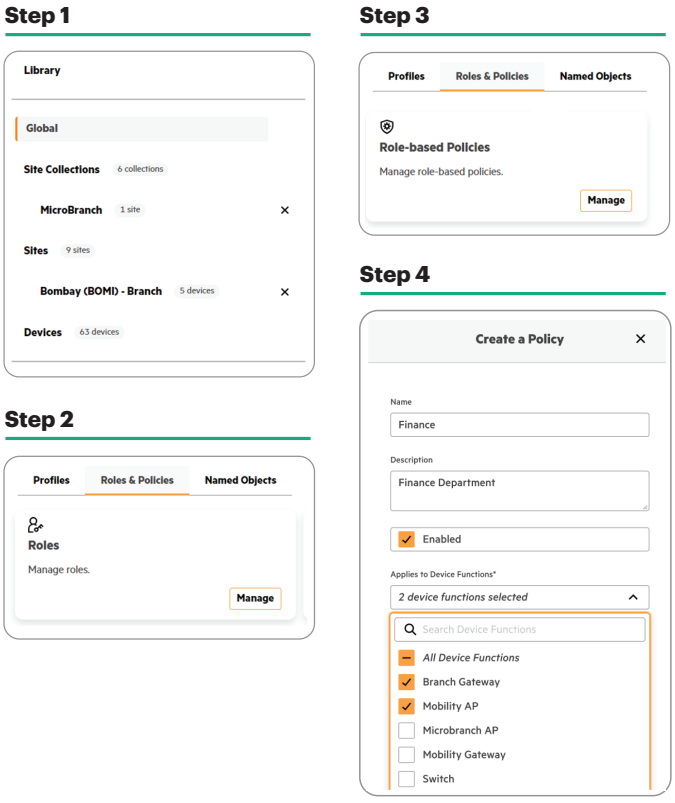


Figure 6 Hierarchical configuration based on business intent

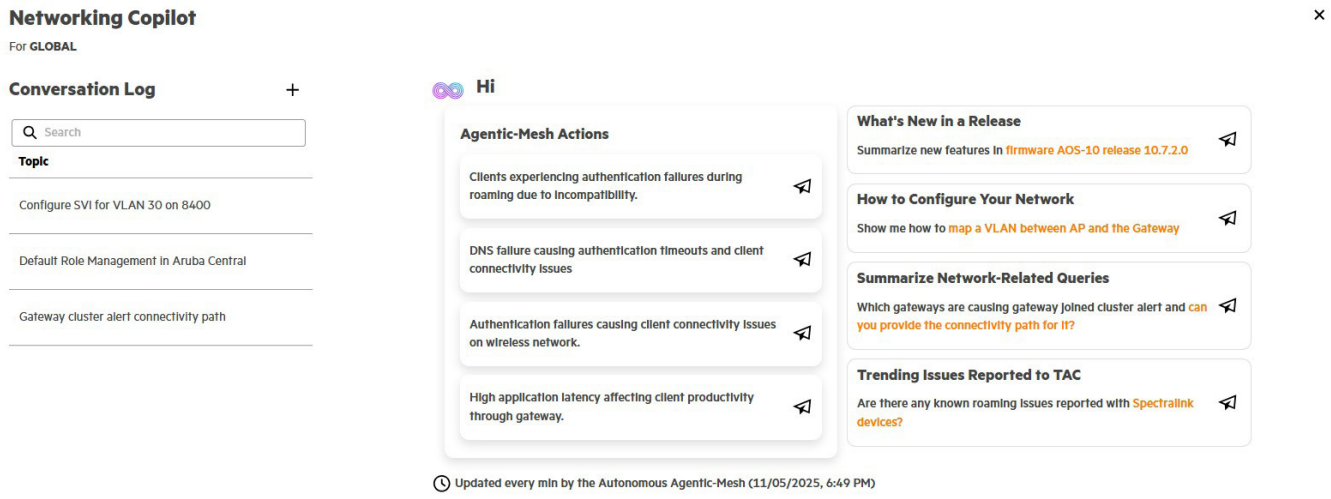


Figure 7. Copilot and Agentic Mesh actions

Expanded, purpose-built AI

HPE Aruba Central adds 3x more AI trained models for improved insights and recommendations, helping to synthesize the information and simplify decision-making. HPE Aruba Central adds 3x more AI-trained models for sharper insights and faster recommendations. Built on a decade of rich telemetry from millions of devices and billions of endpoints. Central is an **AI-native platform**, meaning AI isn't just an add-on, it's embedded into the core of how it operates through the following capabilities:

— **Agentic AI:** Delivered through Central Copilot, this AI-native, agentic intelligence powers self-driving automation and fortified security across branch, campus, data center, and IoT environments.

At its core, the Agentic AI Mesh—a multi-agent orchestrator—enables AI models to reason and collaborate in real time, driving autonomous actions and adaptive responses through the GreenLake Copilot interface.

These agentic mesh actions move operations beyond insight to execution—correlating telemetry, topology, configuration, and security context to automatically diagnose issues and initiate remediation. This closed-loop approach is a critical step in the journey to truly self-driving networks, where routine decisions and responses no longer depend on manual intervention but are continuously optimized by AI.

Users engage naturally through Central Copilot's conversational interface to surface insights, prioritize alerts, and troubleshoot with precision—making the network smarter, more responsive, and truly self-driving.

Read more about Copilot and the available Agentic Mesh actions.

— **AI search:** Uses multiple proprietary LLMs for networking to provide sub-second summaries of the latest VRDs and tech documents with robust security. With the new agentic AI search assistant, users can find, diagnose, and act on information even faster, without needing to know exact keywords or data locations—making every interaction more intuitive and insight-driven.

— **AI insights:** Offers tailored recommendations for firmware updates, performance enhancements for wired, wireless and WAN, power-saving suggestions, and more, potentially reducing professional services costs by 40–50%.

— **Large Experience Models (LEM)** leverages shared AI models across HPE networking platforms to quickly pinpoint the root cause of poor Teams or Zoom call performance. See the full list of AI Insights here.

— **Comprehensive client profiling:** Utilizes AI-native, agentless profiling with up to 99% precision by analyzing dynamic attributes and behavioral characteristics such as connection state and network residency to accurately categorize and identify IoT and traditional devices.

— **AI-native assurance and alerts:** Automatically identify root causes and receive actionable recommendations. Alerts continuously monitor and analyze network data to detect issues in real time, helping you troubleshoot with precision. See the full list of AI alerts here.

— **Advanced IoT policy optimization:** Utilizes AI to enhance IoT security by offering visibility and recommending least-privilege access policies based on unusual activities and historical data. This approach streamlines policy management by consolidating thousands of network flows into about ten optimized policies, covering up to 99% of IoT behavior and significantly reducing manual analysis.

Figure 8. Large Experience Model available as AI Insight

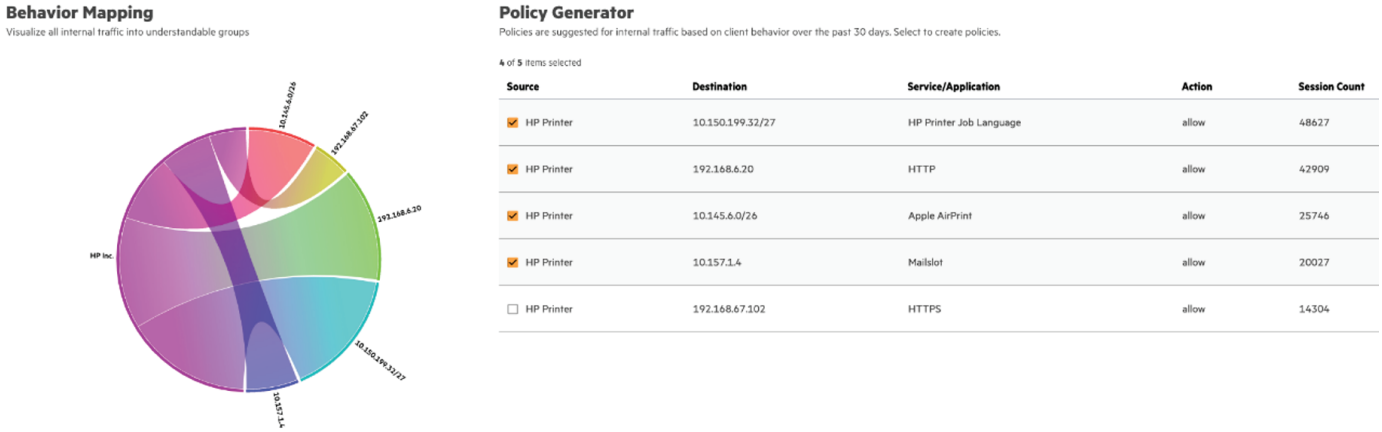


Figure 9. IoT Policy Optimizer

Architectural scale and expandability

Central's microservices-based architecture, deployed across AWS, Azure, and GCP™ public clusters with global points of presence (POPs), is designed to meet the scalability and uptime needs of the most demanding organizations, while ensuring General Data Protection Regulation (GDPR) compliance. This architecture not only supports extensive growth but also offers the modularity required to rapidly integrate industry-leading capabilities.

- **Third-party network monitoring:** In heterogeneous network environments, relying on multiple tools for monitoring can lead to manual errors, increased mean time to resolution (MTTR), and higher support costs. Our solution offers comprehensive visibility across diverse network environments, streamlining troubleshooting, improving IT agility, and eliminating performance blind spots through a single pane of glass.
- **Floor plan manager:** A redesigned floorplan manager helps optimize wireless coverage by enabling site, building, and floor configuration with detailed floor plans, adding support for self-locating HPE Aruba Networking AP configurations with embedded GPS and FTM. Other improvements include automated heat maps, wall configurations, presence analytics, streamlined network management, and new line of business actionable intelligence.
- **Digital experience monitoring integration:** DEM integration provides proactive synthetic tests and monitoring of network and application performance, improving user experience and SLA adherence for HPE Aruba Networking UXI.
- **HPE Aruba Central On-premises:** Central on-premises offers the same industry-leading functionality and intuitive interface for efficient network management as the cloud-based offering. It is tailored for organizations that require on-premises data handling due to confidentiality, security, and compliance concerns, providing cloud-like agility while meeting stringent regulatory standards.

Built-in, not bolted on security

Zero trust security principles can be effectively applied with HPE Aruba Central through its expanded set of integrated cloud-native security tools. By converging multiple security functions into the network management system itself, Central eliminates the need for fragmented, bolted-on tools—reducing operational overhead, integration complexity, and redundant investments.

— **Client insights:** Continuous, AI-native device discovery and profiling enable real-time visibility into every endpoint including IoT devices—whether managed, unmanaged. Reduce blind spots, identify anomalous behavior, and ensure only trusted devices access the network.

— **Cloud-native network admission control with Central NAC:** Create and enforce dynamic, policy-based access control based on user role, device type, and risk posture. Authenticate, authorize, and apply least-privileged access to minimize lateral movement and advanced threats.

— **Policy Manager:** Centralize policy orchestration across wired, wireless, and WAN environments. Simplify compliance, eliminate duplication, and ensure consistent secure experiences through a single interface.

Together, these components work natively within HPE Aruba Central to strengthen and streamline security implementation and enforcement. The result is a unified security posture that scales with your network, reduces risk, and accelerates response—without the friction and added cost of managing disparate tools.

Customer-first support

HPE Aruba Networking devices (access points, switches, and gateways) that have an active HPE Aruba Central SaaS subscription are fully supported and include:

— 24x7 priority technical support for troubleshooting, configuration, and administration.

— Software updates and upgrades for all HPE Aruba Networking hardware managed by Central is included with the subscription.

— Next business day exchange and 4-hour on-site service parts replacement options are also available for all managed hardware.

— Customers can easily migrate from HPE Aruba Networking AirWave to Central through our AirWave to Central Migration service, expediting their transition. This optional service enables rapid utilization of Central's capabilities to achieve business goals. For more information, please visit the service description.

Maximize productivity with new HPE Aruba Central

HPE Aruba Central provides expanded AI, upgraded security, and unrivaled connectivity in a simple and intuitive way, meeting the scale and requirements of the most mission-critical environments. It empowers personnel across skill levels by:

— Reducing the learning curve needed for adoption

— Enabling faster root cause analysis for reduced MTTR

— Delivering operational efficiency and reduced downtime

— Improving security by reducing cyberthreats and minimizing risk

— Maintaining consistency across different network environments

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