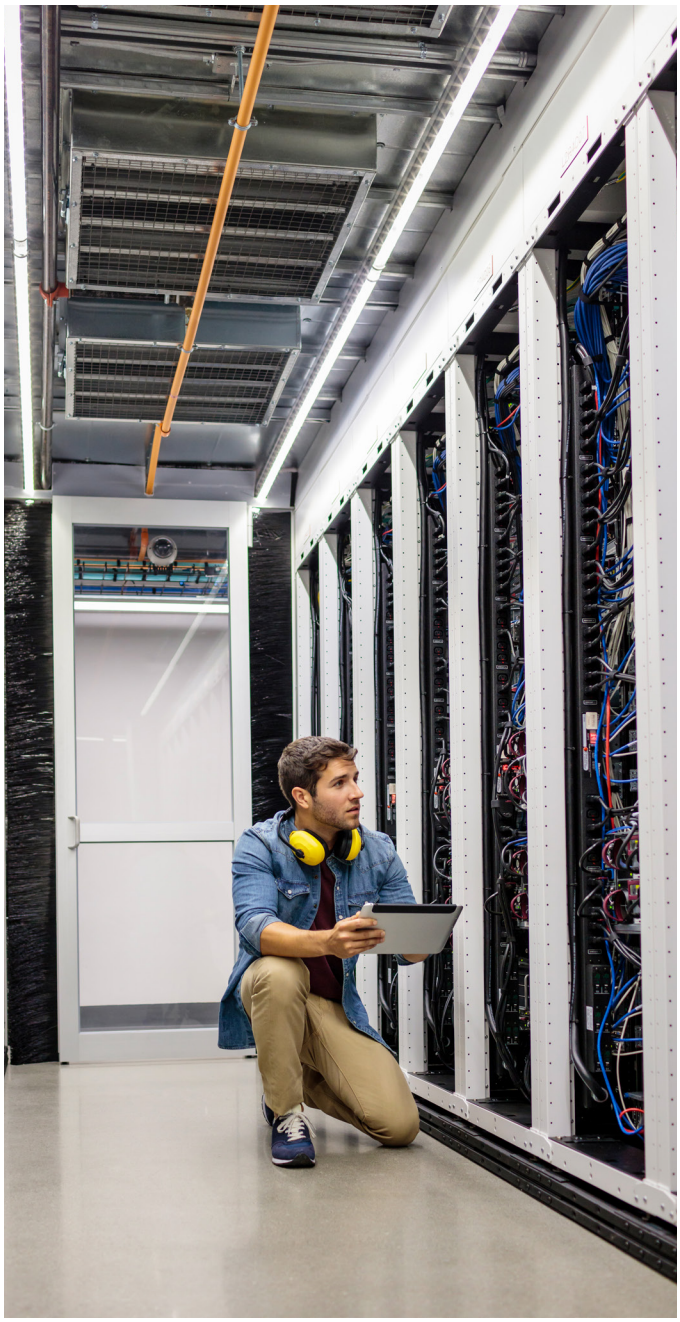
Tech article

5 ways HPE reduces network management complexity



Modern networks are foundational to creating and delivering the exceptional digital experiences that punctuate today's business landscape. However, as network traffic becomes more distributed and dynamic, it's becoming harder for operators to maintain end-to-end visibility, diagnose performance issues, and optimize the network. Combine this complexity with relentless cyberthreats — and a business demand to do more with less — and you start to understand the scale of the challenge network teams face to deliver secure connectivity in a resource-effective way.

With pressure on networking teams only rising, organizations need smarter ways to plan, deploy, manage, and optimize highly distributed networks. Our answer to the challenge is HPE Aruba Networking Central: a unified, cloud-native networking management solution that simplifies operations and helps ensure secure, high performance networking.

Here are five ways HPE Aruba Networking Central works to streamline network operations.

1. AI that's built into the management solution

The challenge: AI for networking is poised to completely transform enterprise networking — improving efficiency through automation, reducing performance bottlenecks, and analyzing behavior to pre-empt issues and outages. But the promise of AI tools can only be realized if they deliver real-time, contextualized, and actionable insights, supported by a secure, rich and varied data lake. Too often, this is not the reality.

The solution: AI is deeply embedded into HPE Aruba Networking Central, providing advanced tools and insights to help make networks easier to operate. When AI is integrated directly into network management systems, analysis and action happen in real-time, insights are more relevant, accurate and comprehensive, and threat detection is faster — delivering on the true promise of AI for networking.

The new version of HPE Aruba Networking Central is powered by three times more AI models to deliver improved insights and optimization recommendations. These models, which continue to grow monthly, are trained (and re-trained weekly) on telemetry from millions of network devices and billions of unique endpoints.

2. Centralized configurability

The challenge: To help your organization remain nimble and responsive to today's fast-paced business environment, networking teams must be able to quickly spin up new devices. But having to use bespoke templates for each device and configuration workflow can drastically impact scalability and speed.

The solution: HPE Aruba Networking Central reduces configuration time from minutes to seconds — enabling you to rapidly deploy devices using new consolidated workflows that configure switches, gateways, and access points across multiple locations through a single configuration interface.

3. Single point of visibility and control for mixed environments

The challenge: Enterprises today use anywhere between three and 20 tools to manage their networks. Naturally, this creates a fragmented network view and puts a heavy management burden on networking teams, which can decrease your rate of analysis and increase the chance of human error.

The solution: An intuitive NOC dashboard in HPE Aruba Networking Central provides comprehensive observability into your entire network ecosystem, including into third-party devices — offering a single source of truth on previously complex operations. By consolidating data across multiple network entities and presenting a solar system view of all network elements, it enables your team to assess the health, security, and status of enterprise devices, clients, and apps at a glance. Additionally, a new time travel capability means you can go back in time when troubleshooting to pinpoint the root cause of an issue.

4. Built-in security with AI-powered capabilities

The challenge: Scattered workforces, an explosion of IoT devices, and a rapidly evolving threat landscape has resulted in a patchwork of bolt-on security solutions. Operating in silos, these solutions can decrease network performance and your team's reaction times to threats.

The solution: Built-in security capabilities combine AI-powered identity information and analysis with edge-to-cloud policy enforcement to give you improved visibility, automated anomaly detection, and pre-emptive threat response at scale.

5. Operator-centric design

The challenge: With networking teams understaffed, many enterprises lack personnel with the exact expertise required to manage multiple networking products and capabilities from multiple vendors.

The solution: The operator-centric design of HPE Aruba Networking Central features a simplified user experience to enable IT staff across all skill levels and operator profiles to access, interpret, and understand network data. This way, it's easier for people of various experience levels to troubleshoot complex issues with diverse datasets and configure and maintain sprawling enterprise networks.

Streamline your network operations

As networks continue to shape the digital frontier, it's important that your networking team is set up for success. If you're ready to reduce network complexity, improve efficiency, and take your network operations to the next level, get to know more about HPE Aruba Networking Central — a tool ready to help you both simplify and supercharge your journey.

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