



**Transform experiences  
with a secure, AI-native  
wireless solution**

## An innovative approach to wireless

Traditional wireless LAN solutions have become complex to manage—lacking the visibility and automation needed to optimize user and device experiences, and the agility to address today’s diverse enterprise needs.

The AI-native wireless solution from HPE makes deploying and managing Wi-Fi easier than ever, elevating experiences in even the most challenging environments. It does this by combining high-performance **access points** with advanced **Mist AI capabilities**—AIOps and automation through **Juniper Wi-Fi Assurance** and cloud-based NAC through **Juniper Access Assurance**.

## Juniper Series of High-Performance Access Points

Our series of secure, AI-native access points (APs) provide full spectrum wireless networking.

Wi-Fi and Bluetooth LE performance	Data collection, analysis, and enforcement	Single, enterprise-grade solution for Wi-Fi, Bluetooth LE, and IoT
<p>Juniper APs deliver strong 802.11be (Wi-Fi 7) and 802.11ax (Wi-Fi 6E) Wi-Fi range and performance.</p> <p>In addition, they incorporate a patented dynamic virtual BLE (vBLE) 16-element antenna array to deliver more accurate and scalable location services. This enables services like wayfinding and asset tracking without the need for battery-powered beacons.</p>	<p>Our APs collect data and enforce policies in conjunction with the Mist cloud, which serves as a central platform for analytics, machine learning, location services, and event correlation.</p> <p>Delivering enhanced visibility, several models incorporate IoT sensors and a fourth radio for business process automation, constant monitoring, and intelligent packet capture to speed up troubleshooting.</p>	<p>To support network convergence, our APs incorporate a port for direct and programmable integration to the analog and digital interfaces of IoT devices.</p>

### APs designed for experience-first mobility network solutions



**Figure 1.** HPE Juniper Networking indoor and outdoor access points

## Juniper Wi-Fi Assurance: Automated wireless operations

Juniper Wi-Fi Assurance is a cloud service based on machine learning and driven by Mist AI that replaces manual troubleshooting with automated wireless operations. Our wireless solution is 100% programmable, using open APIs for full automation and seamless integration with complementary products, including our AI for IT partners across LAN, engagement, and indoor location.

- **Customizable Wi-Fi service levels:** Set, monitor, and enforce service-level expectations (SLEs) for key Wi-Fi performance metrics.
- **Root cause identification in one click:** Proactively identify and fix the root causes of problems using Juniper's Proactive Analytics and Correlation Engine (PACE).
- **Guest Wi-Fi:** Provide scalable guest access with options like multiple language support, customizable branding, social login, and external portal/AAA/RADIUS integration.
- **AI-RRM:** Optimize radio settings to assure performance while instantaneously adapting to intermittent outside interference.
- **Real-time user state information:** Identify and resolve wireless interference issues more efficiently with dynamic packet capture and dynamic spectrum capture that enable "network rewind".
- **Simple resource assignment and QoS with WLAN:** Assign and prioritize network resources to Wi-Fi users with the click of a mouse or via preassigned policies.

**Marvis AI:** Elevate wireless experiences, simplify troubleshooting, and streamline operations with Marvis AI Assistant.

- Uses natural language processing and understanding (NLP and NLU), large language models (LLMs) and generative AI (GenAI) for intuitive interactions. Enable proactive and prescriptive actions, self-driving network operations, digital experience twinning, and integrated helpdesk functions.
- Adds anomaly detection to the SLE framework, enabling your administrators to rapidly and proactively identify service-impacting events and ensure rapid determination and resolution of the root causes.
- Correlates information across a large knowledge base to determine the scope and magnitude of a problem.
- Uses Bayesian Inference to identify the most probable causes of network issues.

## Juniper Access Assurance: Cloud-based NAC

Juniper Access Assurance revolutionizes user experience and device security with simplified client onboarding, easier policy creation and enforcement, and streamlined design, deployment, and day 0/1/2 operations:

- **Zero trust, experience first:** Securely onboard guest, IoT, BYOD, and corporate-managed devices, focusing on the end-to-end user experience.
- **Network policy enforcement:** Assign users to specific network segments (e.g., VLANs) and enforce network policies by assigning user roles, all based on user and device identity.
- **Cloud-native:** Eliminate the infrastructure other zero trust network access (ZTNA) vendors require and unify the client experience with a cloud-native, microservices, API-first network access solution.
- **Unified management:** Mist continuously ingests network access insights, providing enhanced visibility and automation to network operators. This integration allows a unified view of all user experience data, enabling more effective monitoring and management across the network.
- **Inherent high availability:** Ensure a reliable and resilient enterprise network that supports business-critical operations and user satisfaction.
- **Stronger security posture and compliance:** Deep integration with cloud-based identity providers and unified endpoint management (UEM) and mobile device management (MDM) solutions reduces the attack surface. This integration simplifies management of endpoint devices, and boosts productivity across the organization, all while supporting a robust security posture and compliance.



# An agile and scalable wireless solution

## The power of the Mist cloud

Modern cloud services from HPE enable you to more easily grow your network according to workload demands. This allows you to gain faster access to innovations with up to 10x more feature updates each year—with zero scheduled downtime.

## Microservices resiliency

A microservices cloud architecture driven by AI makes it easy to add or remove new features, gaining you faster access to innovations. We deliver new enhancements and bug fixes almost weekly without network disruption. Services scale up or down elastically when they're needed, eliminating the cost and complexity of monolithic hardware. Plus, it's inherently resilient: the microservices cloud architecture means that the failure of one service will not impact others.

## Network as a service (NaaS) scalability

With HPE, you can consume networking services in a more scalable and cost-effective manner with our NaaS offering. Choose the specific subscription services that are best for your environment and then easily add/remove cloud services as your business requirements change. No additional hardware is ever required.

## Juniper AI Care Services expertise

With Juniper AI Care Services, you can tap into the power of our team to maximize the value of Mist innovations, leveraging the power of AIOps and our deep expertise. Access support to effectively design scalable networks, onboard HPE Juniper Networking solutions, and simplify adoption. Our experts also transfer knowledge to your IT teams for ongoing operational excellence.

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