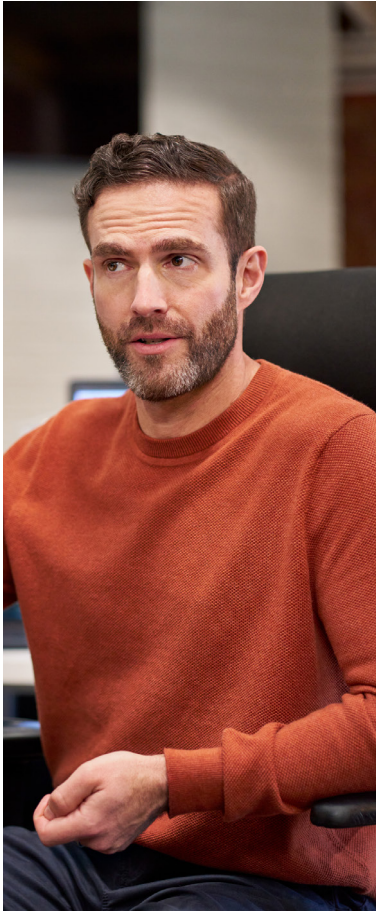




Enhance experiences with a secure, AI-native wired solution

Elevate user and operator experiences with a
self-driving network



Tackle wired complexity

Traditional wired networks are often complex to deploy, relying on manual configurations and lacking the visibility needed to optimize user and device experience.

The AI-native wired access solution from HPE transforms network switching by integrating **cloud-native Juniper EX Series Switches** with advanced **Mist cloud capabilities**—AIOps through **Juniper Wired Assurance** and cloud-based network access control (NAC) through **Juniper Access Assurance**.

Together, this combination delivers enhanced scalability, flexibility, robust security, and more efficient operations to provide the best possible experiences for end users and IT operators alike.

Juniper EX Series Switches

Cloud-native EX Series Switches from HPE are purpose-built for modern campus and branch deployments, offering a flexible platform for digital transformation and helping to ensure reliable, secure, measurable connections across the network.

The portfolio includes switches with:

- Wi-Fi 7 support (multigigabit models, PoE options)
- Virtual Chassis stacking options
- EVPN/VXLAN campus fabric

Table 1. The EX Series Switches portfolio from HPE

EX4000	EX2300	EX3400	EX4100/ EX4100-F	EX4300	EX4400/ EX4400- 24X	EX4600/ EX4650	QFX51xx	EX9200	EX9250
Access or multigig access	Access or multigig access	Access	Access	Multigig access and aggregation	Multigig access and aggregation	Core and aggregation	Core and aggregation	Core and aggregation	Core and aggregation
EX400: 24 x 1GbE or 48 x 1GbE EX4000-MP: 24 x 1/2.5GbE or 48 x 1/2.5GbE	48 x 1GbE or 16 x mGig + 32 x 1GbE	48 x 1GbE	EX4100: 24 x 1GbE or 48 x 1GbE EX4100-F: 12 x 1GbE or 24 x 1GbE or 48 x 1GbE	48 x 1GbE or 24 x mGig + 24 x 1GbE	EX4400: 12 x 10GbE + 36 x 1GbE/24 or 48 x 1GbE/12 x mGig + 36 x 1/2.5GbE / 24 x mGig EX4400-24X: 24 x 1/10GbE	EX4600: 24 x 10GbE and 4 x 40GbE EX4650: 48 x 10/25GbE 25GbE	QFX5110: 48 x 1/10GbE 32 x 40GbE QFX5120: 48 x 10/25GbE 32 x 100GbE 48 x 10GT	48 x 1GbE	48 x 1GbE
4 x 1/10GbE or 2 x 40GbE uplinks/stacking	4 x 10GbE or 6 x 10GbE uplinks	4 x 1/10GbE or 2 x 40GbE uplinks	EX4100: 4 x 1/10GbE or 4 x 10/25GbE uplinks EX4100-F: 100M/1/2.5/5/10GbE 4 x 1/10GbE uplinks	10GbE/40GbE/100GbE uplinks	EX4400: 4 x 25GbE or 4 x 10GbE uplinks EX4400-24X: 4 x 25G or 4 x 10G or 1 x 100G uplinks	EX4600: 8 x 10GbE or 4 x 40GbE uplinks EX4650: 8 x 40/100GbE uplinks	QFX5110 uplinks: 4x40/100GbE QFX5120 uplinks: 8 x 40/100GbE	N/A	N/A
PoE+ (802.3at) PoE++ (802.3bt)	PoE+	PoE+	PoE+ (802.3at) PoE++ (802.3bt)	POE+ (802.3at) POE++ (802.3bt)	POE+ (802.3at) POE++ (802.3bt)	N/A for PoE	N/A for PoE	N/A for PoE	N/A for PoE

Juniper Wired Assurance: Automated wired operations

A key component of Mist AI, Juniper Wired Assurance leverages rich telemetry from EX Switches to deliver better experiences with AI operations, enabling simplified operations, shorter mean time to repair (MTTR), and more powerful insights into end user experiences. The solution is 100% programmable, using open APIs for full automation and seamless integration with complementary products, including our AI for IT partners.

Wired service levels: Enforce SLEs of pre- and post-connection performance metrics such as throughput, successful connects, switch bandwidth, and switch health.

Dynamic packet capture: Proactively capture packets at the time of an incident and store the data in Mist. Our network rewind capability relies on this data to support operator diagnosis of intermittent issues that were almost impossible to identify previously, enabling faster MTTR and fewer truck rolls.

Virtual network assistant: Leverage Marvis AI to uncover hard-to-spot issues impacting user experience and use self-driving actions for efficient troubleshooting. Marvis Actions for wired helps to identify missing VLANs, bad cables, negotiation mismatches, loop detection, port flaps, high CPU usage, stuck ports, traffic anomalies, misconfigured ports, and traffic loops. Marvis Minis, our AI-native networking digital experience twins, enable proactive diagnosis of authentication issues. And the Marvis AI virtual network assistant uses natural language processing (NLP) to provide quick, straightforward, context-aware answers to complex queries.

Root cause identification in one click: Proactively identify and fix the root causes of problems using our Proactive Analytics and Correlation Engine (PACE).

AI switch insight: Get switch insights down to the port level for detailed views of CPU, memory utilization, bytes transferred, traffic utilization, and power draw. Juniper Premium Analytics can help customers deepen insights with extended trend data and analysis.

AI-native campus fabric management

As part of Wired Assurance, EVPN-VXLAN campus fabric management expands the automation, AIOps, and cloud capabilities to streamline IT operations, lower IT costs, and deliver agility and scale.

Campus fabric management helps your IT teams:

- Simplify device onboarding using a QR code
- Provide cloud-based EVPN-VXLAN configuration using intent and choice of topology
- Verify, apply, and confirm intent once fabric is provisioned

IT teams using AI campus fabric management can easily onboard, deploy, and manage campus fabrics at scale.

Juniper Access Assurance: Cloud-based NAC

Revolutionizing the experience-first network for user and device security, Juniper Access Assurance is a cloud-based NAC solution with inherent high availability that simplifies client onboarding with easy policy creation and enforcement. It also simplifies design, deployment, and day 0/1/2 operations.

Zero trust, experience first: Access Assurance is centered around the secure onboarding of guest, IoT, BYOD, and corporate-managed devices, focusing on the end-to-end user experience and offboarding of users and endpoints.

Network policy enforcement: Based on user and device identity, Access Assurance can instruct the network to assign users to specific network segments (e.g., VLANs), as well as enforce network policies by assigning user roles.

Cloud-native: As a cloud-native, microservices, API-first network access solution, Access Assurance removes all the infrastructure requirements needed by all other zero trust network access (ZTNA) vendors and unifies the client experience.

Stronger security posture and compliance: Deep integration with industry-leading, cloud-based identity providers and unified endpoint management (UEM) and mobile device management (MDM) solutions reduces the attack surface and delivers business ROI. The 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 wired 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.

Learn more at

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