

Accelerate Enterprise Transformation with Juniper AI-Native Networking and Google's Cloud WAN

Deliver simplicity, automation, and assured experiences powered by AI

Discover how Mist integrates with Google's Cloud WAN to deliver best-in-class campus and branch networking

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The challenge/opportunity

Legacy networks create complexity, costs, and blind spots

Enterprises have long struggled with fragmented networks made up of disparate technologies, driving up operational complexity, costs, and risk. Traditional systems lack the visibility and assurance needed to support modern business outcomes.

Mist™, Juniper's AI-native networking platform, and Google Cloud WAN combine to simplify operations, automate actions, and deliver end-to-end connectivity, visibility, and assurance. Together, they empower enterprises to drive better experiences, security, and business agility.

The capabilities you need

Self-driving networking for modern enterprises

Break free from complexity with AI-native, cloud-first networking that boosts efficiency and user experience.

- **AI-native networking**
Simplify operations and reduce manual tasks with self-driving actions that resolve issues before users notice.
- **End-to-end visibility and assurance**
Gain real-time insights into user experience and app performance across campus, branch, and cloud environments.
- **Cloud-optimized connectivity and security**
Ensure secure, seamless access and performance by integrating Google's Cloud WAN with Juniper's AI-native campus and branch solutions built for scale and simplicity.

**The answer: Juniper
AI-native networking for
Google's Cloud WAN**

AI-native networking and Google Cloud WAN for enterprise agility

Juniper and Google Cloud have joined forces to deliver an AI-native, cloud-first networking solution that simplifies complexity and drives better outcomes. By unifying Mist with Google's Cloud WAN, enterprises gain automation, real-time visibility, and secure connectivity across campus, branch, and multi-cloud environments.

This integrated approach reduces operational overhead, accelerates troubleshooting, and improves user experiences—empowering IT teams to transform networks from a cost center into a strategic business enabler.

How it works

Built for modern enterprise and cloud networking demands

Transform complex, siloed networks into agile, AI-native infrastructures that deliver seamless user experiences, faster troubleshooting, and scalable performance across cloud, campus, and branch environments.



Modernizing distributed branch networks

Quickly deploy and manage branches with centralized control, AI-native insights, and reduced operational complexity.



Enhancing user and operator experience

AI-native networking ensures consistent performance, reduced support tickets, and improved productivity across all locations.



Cloud-first WAN transformation

Leverage Google's Cloud WAN to simplify connectivity, reduce costs, increase agility, and improve global network performance.



Securing access with Zero Trust

Implement identity-based access controls and real-time threat detection for secure, compliant branch environments.

Core features/capabilities

AI-native networking	Simplified Day 0/1/2 operations Automate routine tasks, reducing manual errors and increasing efficiency.
Real-time performance visibility	Enhanced troubleshooting and insights Instantly pinpoint and resolve network issues to ensure optimal performance.
Unified management	Simplified network management Manage, monitor, and configure your entire network from a single dashboard.
Cloud-native integration	Achieve agility and architectural simplification Agile microservices, open APIs, and seamless WAN connectivity for secure, easy cloud management.
Cost optimization	Reduced operational and infrastructure costs Lower TCO by reducing reliance on MPLS, colocation, and optimizing network management.
End-to-end Zero Trust	Secure, scalable network access Protects campus and branch environments with dynamic policies, device awareness, and threat detection.

Solution capabilities

Elevate experiences while slashing OpEx with Mist, Juniper’s AI-native networking platform for campus and branch networking. This full stack approach integrates wired and wireless access, SD-WAN, indoor location, and security—all powered by the Marvis® AI engine for unmatched scale and agility.



Mist, Juniper's AI-native networking platform, powered by Marvis AI

Mist delivers automation, insights, and self-driving actions for the campus and branch. It simplifies operations, boosts user experiences, and provides end-to-end visibility and proactive assurance. The Marvis® AI Assistant leverages the Marvis AI engine to proactively identify and resolve the root cause of network issues. Marvis Actions identifies issues like missing VLANs, bad cables, congested WAN circuits, and much more. When given permission to self-drive, the Marvis AI Assistant can autonomously resolve misconfigured ports, port stuck issues, and more. The Marvis AI Assistant features a conversational interface that uses advanced natural language processing to understand user intent and goals, replacing reactive dashboards and CLIs. Another key feature of the Marvis AI Assistant is Marvis Minis that proactively simulate digital user connections to instantly validate network configurations to find/detect problems without users being present.



Juniper AI-driven SD-WAN

Juniper's AI-driven SD-WAN solution, enhanced by Juniper WAN Assurance, delivers a modern, cloud-native approach to managing wide area networks. This integration emphasizes user experience, operational simplicity, and proactive issue resolution across distributed enterprise environments.



Juniper Wireless Access

Juniper's Wireless Access solution combines cloud-managed **Juniper access points** with **Mist Wi-Fi Assurance** to deliver reliable, AI-driven wireless experiences. It automates operations, provides real-time user insights, and reduces IT workloads. Integrated **indoor location services** enable precise wayfinding, asset tracking, and location-based engagement using virtual Bluetooth® LE.



Juniper Wired Access

Juniper's Wired Access solution combines cloud-native **EX** and **QFX Series Switches** with **Mist Wired Assurance** to deliver secure, scalable, and AI-native network operations. Wired Assurance provides real-time telemetry, proactive troubleshooting, and automation, enhancing network reliability and reducing operational complexity. EX switches are ideal for campus and branch access while QFX switches offer high-performance aggregation and core capabilities. Together, they enable Zero Touch Provisioning, dynamic port profiles, and seamless integration with Mist.



Juniper Access Assurance

Juniper's Access Assurance uses AI and identity-based policies to control and secure user and device access to the network. Integrated into the Juniper Mist platform for campus and branch networking, it enables Zero Trust access, streamlines NAC operations, and improves security posture with automation and real-time policy enforcement.



Juniper Premium Analytics

Juniper Premium Analytics offers network and security visibility with business intelligence to drive digital transformation. It provides insights into network and business operations, overcoming big data challenges. The service empowers teams with end-to-end visibility, enables data-driven decisions, eliminates data silos, and delivers actionable insights across wireless, wired, and WAN networks while supporting ongoing network and security optimizations.

Google's Cloud WAN unifies enterprise, cloud, and branch connectivity into a single, high-performance global network. It simplifies operations, reduces costs, and boosts agility with integrated partner services, built-in security, and unmatched global resilience—replacing complex legacy WANs with one scalable, cloud-native solution.

Google's Cloud WAN

Google Cloud WAN is a fully managed global solution that unifies enterprise backbones and SD-WANs into a single, high-performance network with integrated Google and partner security services. It delivers superior scalability, reliability, and low-latency connectivity, offering up to 40% lower total cost of ownership and up to 40% better performance compared to customer-managed WANs and the public internet

Cross-cloud network

This new solution leverages capabilities such as Cross-Site Interconnect and NCC Gateway SSE integration and can replace multiple bespoke WAN and MPLS solutions with a single global WAN to connect workloads, offices, data centers, and users across the world over the Google private backbone

Global private network

Global private network with two million miles of fiber, 33 subsea cables, and availability in over 200 countries and territories around the world

Best of breed network and security services

Tightly integrated SD-WAN, SASE, DDI, and others for a cloud-native experience, delivering architecture simplification, optimal performance and consistent security

Global resilience

Path diversity with subsea cables, massive DDoS protection built in, and extensive ISP and SaaS peering, plus industry unique failure rerouting for resilience to network disruptions globally

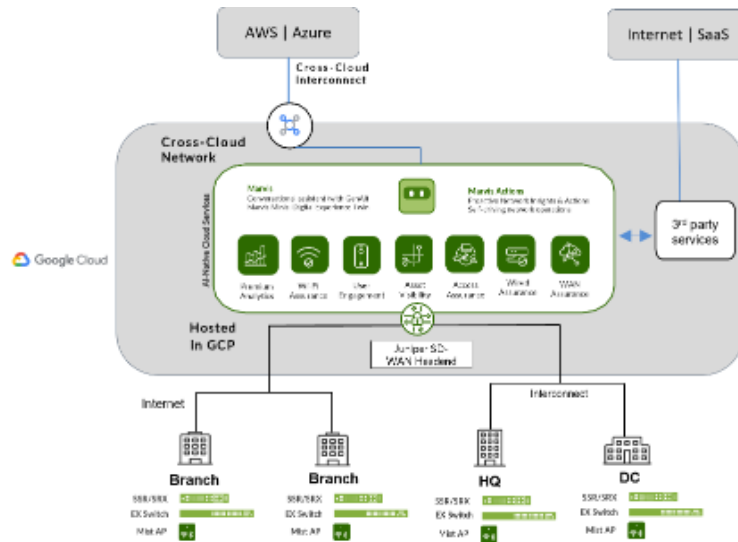


FIGURE 1 Juniper AI-native networking for Google WAN Cloud solution architecture

Why Juniper and Google's Cloud WAN

Our partnership advantage

Juniper Networks believes that connectivity is not the same as experiencing a great connection. Mist™, Juniper's AI-native networking platform, is built from the ground up to leverage AI to deliver exceptional, highly secure, and sustainable user experiences from the edge to the data center and cloud. Additional information can be found at Juniper Networks (juniper.net) or connect with Juniper on [X](#) (Twitter), [LinkedIn](#), and [Facebook](#).

Google Cloud is the new way to the cloud, providing AI, infrastructure, developer, data, security, and collaboration tools built for today and tomorrow. Google Cloud offers a powerful, fully integrated and optimized AI stack with its own planet-scale infrastructure, custom-built chips, generative AI models and development platform, as well as AI-powered applications, to help organizations transform. Customers in more than 200 countries and territories turn to Google Cloud as their trusted technology partner.

Next steps

Customers can procure Juniper AI-native networking products on the [Google Cloud Marketplace](#). To learn more about the Juniper AI-native networking and Google Cloud WAN solution, please contact your Google or Juniper representative or visit Google Cloud Marketplace (<https://cloud.google.com/contact>) or www.juniper.net.

Take the next step

Connect with us

See how we help unlock new growth, powered by AI.

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