

TOP
TOP 10

**Reasons Enterprises
Prefer Juniper Wireless**

Juniper's WLAN solution meets the mobility needs of today's enterprises by delivering the highest levels of reliability, scalability, management, and security.

Wireless Enterprise Solution Overview

The enterprise network is undergoing unprecedented change as it attempts to stay current with the ever evolving technology landscape. Trends such as mobile device proliferation and the increasing use of video and remote collaboration, plus a vast array of rich applications, are opening up exciting new and profitable opportunities for the enterprise. Unfortunately, these opportunities also come at a time of shrinking budgets, IT staff reductions, and increasing demand for ubiquitous, "always-on" wireless service for mobile device users. Juniper Networks provides a comprehensive wireless LAN solution as a part of its Simply Connected product portfolio, which offers measurable advantages in provisioning, security, performance, reliability, and management to address these new realities. These are game-changing advantages, and they make Juniper Networks uniquely capable of addressing the changing needs of enterprises worldwide.

Juniper's WLAN solution offers an advanced architecture that is designed specifically for mobility. Juniper delivers the highest performance available today through a highly distributed, intelligent WLAN architecture that allows offloading of encryption, packet inspection, and packet forwarding from centralized controllers to wireless access points.

Juniper's portfolio of WLAN products have been deployed in many enterprise industries since the inception of the "thin access point" revolution in 2002. Today, more than 1 million access points are installed at over 6,000 businesses worldwide. Juniper WLAN deployments can now be found in enterprise companies of all sizes, including Fortune 100, government, hospitality, financial, and retail institutions.

Top 10 Reasons to Choose Juniper Networks WLAN for the Enterprise

Enterprises have long chosen Juniper Networks as their preferred WLAN partner. Juniper has numerous enterprise customers in many industries running large, complex, mission critical WLAN networks. Below are 10 of the most important reasons enterprises choose Juniper Networks WLAN solutions.

- 1) **Resiliency:** Juniper provides the only hitless *stateful failover* solution for *zero impact* network failover. This means when an unplanned outage such as a power failure occurs, all wireless sessions on a Juniper wireless LAN system will seamlessly and statefully fail over to a backup controller, with zero service disruption.
- 2) **In-Service Software Upgrades:** Juniper provides the only wireless LAN system that lets users perform in-service software upgrades on a live wireless network. With many enterprises supporting facilities spread across wide geographic areas, coordination of software upgrades (alerting employees, scheduling downtime, etc.) is an important requirement and can be a major challenge. When an image upgrade is required (as either a planned or emergency upgrade), Juniper's WLAN system allows a centralized IT team to perform in-service software upgrades with near zero interruption to end user service.
- 3) **Manageability:** Juniper Networks is the only vendor that allows IT administrators to manage an entire group of controllers as one logical entity. Up to 16,000 access points can be managed by 32 controllers, eliminating the need for IT to manage many controllers individually. Juniper's unmatched manageability and scalability is built into the network, allowing IT staff to manage the network with fewer resources.
- 4) **Simple Expansion:** Juniper's WLAN solution ensures that adds, moves, and changes are completely automated and nondisruptive to user sessions. Adding a controller to Juniper's wireless LAN system simply requires powering up the new controller and giving it the IP address of the master controller. The master controller downloads the full configuration and sets up all real-time states. It also seamlessly load-balances access point capacity onto the new controller with no user intervention. This allows the network to be as flexible as the enterprise—it can simply scale as the business needs to evolve and change.
- 5) **Mobile Device Support:** Juniper provides a complete end-to-end system for provisioning and onboarding mobile devices to the wireless network. As the only vendor to combine mobile device management with mobile security, Juniper delivers the best end user mobile experience and the most streamlined workload for IT administrators. Through tight integration with Juniper mobile security products, Juniper's Simply Connected WLAN solution eases the process of bringing mobile devices onto the network and ensuring that they stay secure. This allows IT managers to focus on tasks that are more important than manually configuring devices onto their wireless network.
- 6) **RF Expertise:** For a robust end user experience, Juniper has the most advanced system-wide RF intelligence, including full spectrum analysis. Using sophisticated RF algorithms to automatically load-balance clients, Juniper significantly simplifies the role of IT in managing complex RF spectrum. Additionally, simultaneous spectrum analysis on all 802.11n access points enables IT managers to detect and address interference sources quickly and easily with less equipment, helping them to get better performing air.

- 7) **Architecture:** Juniper Networks has an advanced, flexible traffic forwarding architecture that allows customers to deploy controllers entirely in the data center. This deployment model comes without any loss of features or functionality at remote sites, delivering a more cost-effective and manageable WLAN solution, as controller consolidation in the data center minimizes the need for controllers in every building.
- 8) **Simple Management:** Juniper provides the only full lifecycle management application in the industry, including three-dimensional and spectrum analysis planning. Juniper Networks® WLM1200 Ringmaster Appliance enables IT managers to preplan their wireless network, define building material specifications, plan around existing interference sources, and arrive at a fully deployable and highly accurate implementation. This proactive network plan ensures a high performing wireless network, and it can be given to installers to easily and accurately install access points across the enterprise campus.
- 9) **Security:** Juniper Networks is the only vendor in the industry to seamlessly enable policy orchestration between WLAN, VPN, network access control (NAC), and firewall across wired/wireless networks for a completely unified security policy. Juniper utilizes the strength of the Interface to Metadata Access Point (IF-MAP) protocol and ecosystem to coordinate policy and elevate policy management to a whole new level. With centralized and uniform awareness of user identity and role, IT staff can ensure end-to-end segmentation for multiple functions within an enterprise across both wired and wireless networks. Juniper fortifies wireless security by integrating with the wired infrastructure. This enables IT managers to apply common, consistent, role-based security policies across the entire network (wireless, wired, mobile, VPN, and remote branch) for the most secure network around.
- 10) **Guest Management:** Juniper Networks provides the most complete guest access application in the industry. Juniper enables simple management of guest access, while creating a feature rich policy layer for granular policy enforcement. Features such as guest self provisioning using short message service (SMS) allows a secure yet simple way of managing transient user populations. Individual departments and facilities can be responsible for creating and managing their own guest users, while IT managers do not have to give up control or security of the guest network. By leveraging Juniper's comprehensive WLAN solution, IT managers have full control over what guests can access, for how long, from where, and during what timeframe—all while complying with regulatory and enterprise guidelines for network access.

Summary

WLAN networks need to be robust, flexible, and feature rich, if they are going to be able to support the transformational trends and challenges of today's enterprises. With unparalleled advantages in provisioning, security, performance, reliability, and manageability, Juniper's WLAN portfolio of products is an excellent choice for enterprise networks of all sizes. Juniper's WLAN solution offers an advanced architecture that is designed specifically for mobility. It delivers high performance through a highly distributed, intelligent WLAN ecosystem that allows offloading of encryption, packet inspection, and packet forwarding from centralized controllers to wireless access points. And working in combination with the functionality enabled by Juniper's larger Simply Connected product portfolio, Juniper's wireless LAN solution enables enterprise networks to meet the demands of today, while being prepared for the future demands of tomorrow.

For More Information

For more information about Juniper's wireless LAN portfolio, please see the following links on www.juniper.net.

Solution Brochure and Datasheets

Juniper Networks Wireless LAN Solution Brochure

www.juniper.net/us/en/local/pdf/brochures/1600052-en.pdf

WLA Series Wireless LAN Access Points Datasheet

www.juniper.net/us/en/local/pdf/datasheets/1000359-en.pdf

WLC Series Wireless LAN Controllers Datasheet

www.juniper.net/us/en/local/pdf/datasheets/1000360-en.pdf

Solution Briefs

Ensuring Nonstop System-Level Reliability for Wireless LANs

www.juniper.net/us/en/local/pdf/solutionbriefs/3510415-en.pdf

Wireless Airspace Management for Maximum Speed and Reliability

www.juniper.net/us/en/local/pdf/solutionbriefs/3510407-en.pdf

Maximizing Wireless LAN Reliability

www.juniper.net/us/en/local/pdf/solutionbriefs/3510394-en.pdf

Wireless Resource Management for Maximum Reliability and Scalability

www.juniper.net/us/en/local/pdf/solutionbriefs/3510416-en.pdf

About Juniper Networks

Juniper Networks is in the business of network innovation. From devices to data centers, from consumers to cloud providers, Juniper Networks delivers the software, silicon and systems that transform the experience and economics of networking. The company serves customers and partners worldwide. Additional information can be found at www.juniper.net.



Corporate and Sales Headquarters

Juniper Networks, Inc.
1194 North Mathilda Avenue
Sunnyvale, CA 94089 USA
Phone: 888.JUNIPER (888.586.4737)
or 408.745.2000
Fax: 408.745.2100
www.juniper.net


APAC Headquarters

Juniper Networks (Hong Kong)
26/F, Cityplaza One
1111 King's Road
Taikoo Shing, Hong Kong
Phone: 852.2332.3636
Fax: 852.2574.7803

EMEA Headquarters

Juniper Networks Ireland
Airside Business Park
Swords, County Dublin, Ireland
Phone: 35.31.8903.600
EMEA Sales: 00800.4586.4737
Fax: 35.31.8903.601

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