

Juniper Networks and Aruba Networks Deliver the Best User Experience

Challenge

BYOD policies, UCC applications, and cloud applications are putting a strain on your network. As a result, user experience is inconsistent, and troubleshooting a complex manual process reduces the productivity of your network staff.

Solution

Juniper Networks' broad portfolio of switching, routing, security, and network management solutions integrates seamlessly with Aruba Networks' WLAN and policy management products to provide a simple and secure network that delivers the best user experience in the industry.

Benefits

- Delivers a secure and consistent user experience across both wired and wireless networks
- Increases network support staff productivity and efficiency with a simple and secure converged network that includes integrated tools for management, visibility, and policy enforcement across wired and wireless networks
- Delivers the bandwidth and performance required for today's high-definition video, UCC, and cloud applications
- Supports large numbers of mobile users on a variety of devices without degradation in performance

We live in an era of user empowerment. Your workers are increasingly mobile (37 percent of them are now completely so, according to IDC), cloud-savvy, and resource hungry. They demand a high-quality, consistent experience—whether it's connecting to an on-premise database or accessing a high-definition videoconference session through a wireless unified communication and collaboration (UCC) tool like Microsoft Lync. They have convinced 74 percent of businesses to implement bring-your-own-device (BYOD)-friendly policies that have devices of all makes and models accessing the network at unpredictable times and places.² And their use of cloud applications is growing exponentially from year to year.

The Challenge

Most organizations today face the same daunting scenario. Their wireless networks, once an afterthought, have now become essential for conducting business as employees increasingly depend on multiple wireless devices—between four and eight devices per user³—to do their jobs. The diverse client types and traffic patterns cause unpredictable performance, yet users expect a consistent experience wherever, and however they connect to the network.

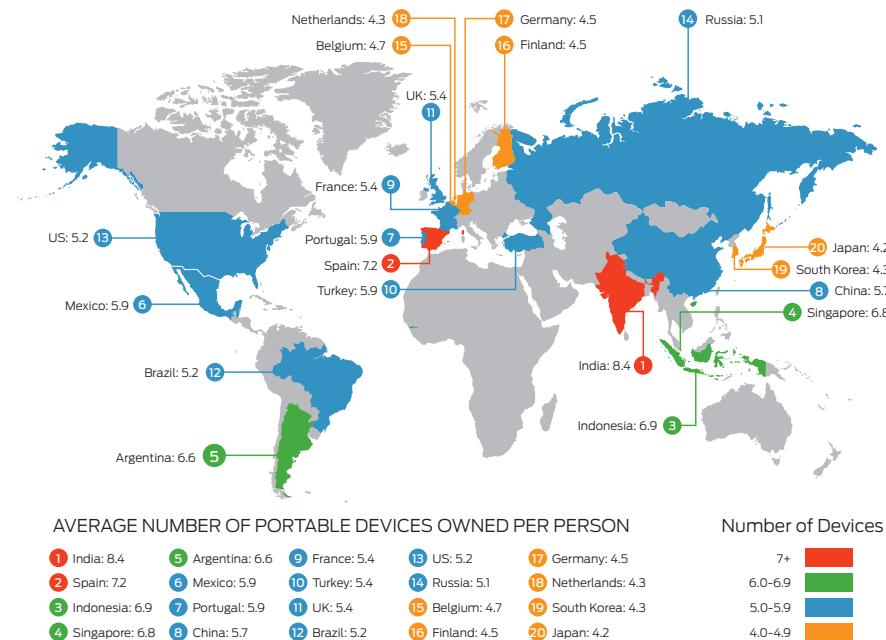


Figure 1: Average number of portable devices owned per person, May-July 2013



¹IDC, Worldwide Mobile Worker Population 2011–2015 Forecast, 2012

²Wearables, BYOD, and IoT: Current and future plans in the enterprise. Tech Pro Research, January 2015

³ Deloitte Global Mobile Consumer Survey, Deloitte, May-June 2013

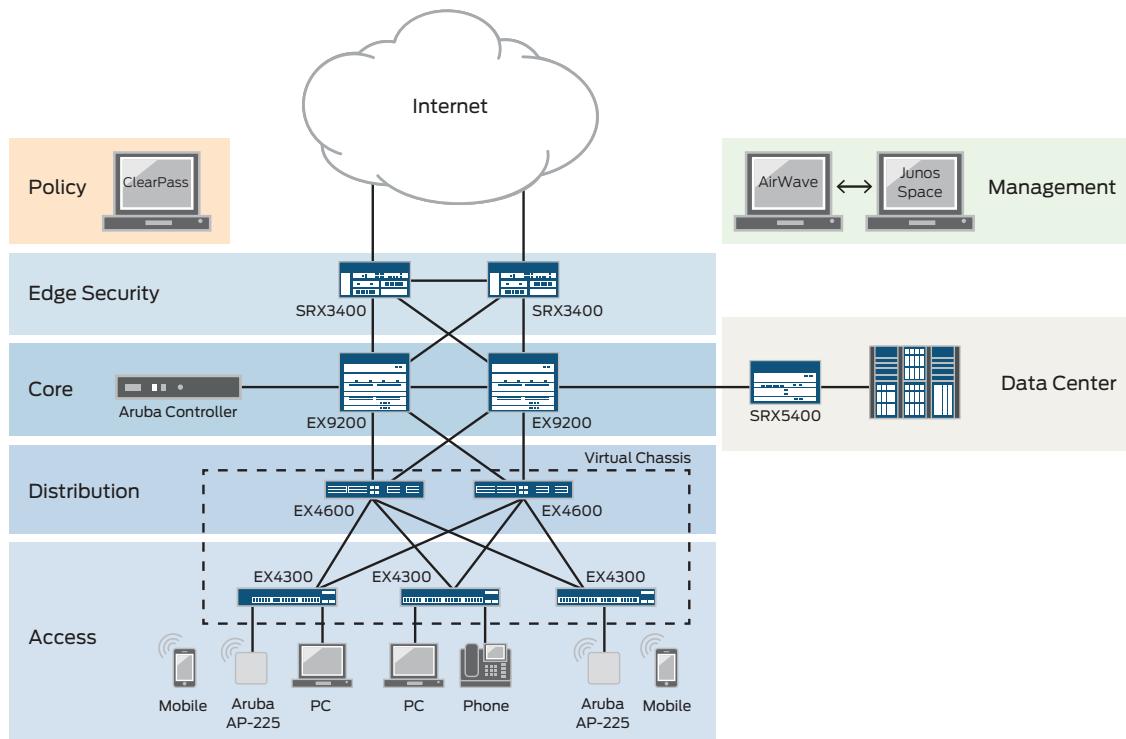


Figure 2: The Juniper Aruba campus solution

These factors all place inordinate pressure on IT staff and management. You need to support mission-critical connectivity from WANs to LANs to wireless networks to deliver the richer experience users have come to expect. The exploding scale and diversity of devices accessing networks, coupled with increasing high-definition video, UCC, and cloud application content, demand high performance and high bandwidth to both desktop and wireless devices.

In essence, your challenge is threefold: to provide sufficient bandwidth to wired and wireless devices to handle the bandwidth-intensive applications in today's enterprise; to deliver reliable service to users regardless of device; and to ensure the quality of service (QoS) and security of mission-critical applications and information.

Not incidentally, you need simplified management to increase productivity and efficiency to free you and your staff for projects that move your business forward.

Juniper Networks and Aruba Networks: A Deep Partnership

Aruba and Juniper have partnered to create an open, converged network that delivers an exceptional user experience for today's demanding workforce. Aruba offers best-in-class high-performance 802.11ac wireless hardware designed for high traffic loads. This includes smart Wi-Fi with airtime fairness and patented ClientMatch™ technology to optimize traffic distribution in dense areas. Juniper offers a comprehensive portfolio of best-in-class

switching, routing, and security solutions that deliver a scalable, secure, high-performance enterprise network, all under the same management interface, Juniper Networks® Junos® Space.

Together, Aruba and Juniper offer an open and secure solution that enhance user experience, reduces complexity and enables mobility in enterprises of any size.

Integrated Management Capabilities

Aruba's AirWave Management Suite supports Juniper wired switching, allowing customers to manage Aruba and Juniper devices. Junos Space Network Director supports Aruba WLAN, allowing Juniper WLAN customers to manage both Juniper devices and Aruba WLANs from the same interface. Because these two tools complement each other, you have the flexibility to choose the best tool for the job. The tools also support streamlined workflow integration for efficient tracing of network issues and troubleshooting. The Juniper-Aruba solution allows you to replace the tedious tasks of manual configuration and updates with automated processes across both switched and wireless networks, resulting in zero touch access point (AP) and switch provisioning for campus and remote sites alike.

Security: An Important Part of the Juniper Portfolio

Organizations require greater control over the applications and traffic on their networks to protect their assets against attacks and manage bandwidth usage. They need a solution that is efficient, yet still delivers high levels of security assurance.

Juniper Networks SRX Series Services Gateways deliver next-generation firewall protection with integrated application awareness, intrusion prevention, role-based user controls, and best-in-class unified threat management (UTM) to protect and control your business assets. This solution is centrally managed using Junos Space Security Director.

Aruba's ClearPass Policy Management Platform provides access layer security for user authentication, policy management, and BYOD onboarding. ClearPass integrates with SRX Series firewalls to give you policy enforcement at Layer 3 (L3), while policy integration with Juniper Networks EX Series Ethernet Switches enforces network policy at the access edge. The integration results in protection both at the edge and in the middle of the network, leading to improved security with less downtime and less risk. Additionally, guest access is centralized and delivered consistently to wired and wireless users. Best of all, users experience seamless, easy access to all permitted network resources—UCC, e-mail, or cloud applications, for example—on any device and from any location.

Summary: A Fully Integrated Solution

The Juniper and Aruba solutions are integrated on many different levels, including access policy and management integration.⁴ The combination of Juniper's management tools, routing, security, and switching platforms, with Aruba's wireless solutions and management console results in a best-in-class, high-performance, resilient, open, and secure IP network that delivers the best user experience in the industry.

Next Steps

For more information, contact your Juniper Networks representative or go to www.juniper.net. Also, visit the Aruba certification page: www.arubanetworks.com/partners/ecosystem-partners/solutions/#Juniper.

⁴Integration support available in future releases.

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About Aruba Networks

Aruba Networks is a leading provider of next-generation network access solutions for the mobile enterprise. The company designs and delivers Mobility-Defined Networks that empower IT departments and #GenMobile, a new generation of tech-savvy users who rely on their mobile devices for every aspect of work and personal communication. To create a mobility experience that #GenMobile and IT can rely upon, Aruba Mobility-Defined Networks™ automate infrastructure-wide performance optimization and trigger security actions that used to require manual IT intervention. The results are dramatically improved productivity and lower operational costs.

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.