

Avaya WLAN 8100 Series

The Avaya WLAN 8100 Series combines the latest 802.11n wireless standard with a new and truly unified wireless/wired architecture for a stellar result — an advanced product that delivers wired performance to wireless users at a lower total cost of ownership.

Why choose Avaya's WLAN 8100 Series?

Cost savings and lower TCO

- Eliminates cabling and the associated expense
- Requires fewer network elements, thereby reducing total cost of ownership
- Energy efficient

Increased performance, coverage and security

- Provides higher performance, throughput, reliability and more, through support for 802.11n
- Common network access security capabilities that can be set for all users and devices, both wired and wireless; Support for popular authentication types & security standards

Enhanced user mobility and productivity

- Optimized for voice and multimedia applications; Supports industry-leading wireless voice call densities and introduces the industry's first solution to extend E-911 support to wireless devices
- Offers end-to-end solutions, including fixed-mobile convergence (e.g., WLAN infrastructure, WLAN handsets, data, voice, Mobile Unified Communications solutions), to extend reach and increase worker productivity

Reduced network and operational complexity

- Delivers an integrated wireless/wired infrastructure that simplifies deployment
- Centralized management common to both wireless and wired networks removes cost and complexities of supporting multiple networks

The WLAN 8100 is complete solution that's ideal for enterprises looking to move users to wireless access for today's leading business, IP Telephony and converged multimedia applications.

The series includes three primary components: WLAN Access Points, WLAN Controllers and the WLAN Management Software.

WLAN Access Points provide wireless access to mobile devices and perform encryption/decryption for wireless traffic, priority queuing and radio frequency (RF) monitoring, including rogue AP identification and containment. Access Points exchange control and data traffic with their associated Wireless Controller. Features include:

- One to three 802.11a/b/g/n radios
- Two spatial streams over integrated MIMO Antennas (2.4 GHz and 5 GHz)
- Integrated and external antenna options
- Simultaneous dual band operation (2.4 GHz and 5 GHz)
- Adaptive frame aggregation
- One GigE uplink port
- Multiple Power over Ethernet options

WLAN Controllers control the access points and perform key centralized functions such as security, networking, quality of service (QoS), and roaming for mobile users. Controllers can be

deployed as either standalone wireless controllers or integrated into Avaya's wired portfolio. Features include:

- Scalable architecture with separate data and control planes, each of which can scale independently and more cost effectively than traditional controller-based architectures
- Expansion module for further flexibility in scaling
- Ability to move data plane and/or control plane to core/edge switches
- Support for up to 512+ APs (802.11n)

The WLAN Management Software is a comprehensive design and management tool that identifies ideal access point locations on detailed floor plans, configures all devices with a single click and provides granular monitoring and reporting for complete visibility and control over the entire system.



WLAN 8100 Series: Enabling the Unwired Enterprise

The WLAN 8100 Series architecture incorporates an innovative design that allocates separate resources to management, control, and data forwarding, and enables network intelligence to be optionally distributed to the wireless edge. By combining the operational advantages of centralized management and intelligence with the scalability, efficiency and performance of distributed switching, the optimized wireless controller/switch architecture is able to deliver an optimized WLAN switching system.

The Avaya WLAN 8100 Series Advantage

Enhanced user experience

The WLAN 8100 Series delivers the performance and the robustness of a 'wired'

The integration of wireless functionality into enterprise switches and routers improves the performance of real-time applications like WiFi voice while simplifying the network by reducing the number of network elements.

network from a 'wireless' network, ensuring an optimal experience for users. Resiliency features, high availability and ubiquitous coverage that eliminates 'dead' spots, ensure that users stay connected wherever they are, making the WLAN 8100 Series ideal in mission-critical environments such as healthcare. Since the series is built around 802.11i, it supports WPA2 and other security features that are quite often more robust than those deployed in most wired networks.

Simplified administration

For administrators, the WLAN 8100 Series delivers simplified administration through a unified wired/wireless network. This unified and less complex infrastructure results in easier deployment, consolidated security/

policy enforcement and streamlined moves, adds and changes.

By offering centralized management and eliminating the need to support multiple overlay networks, including LAN, WLAN, VPN, Voice and network management, the WLAN 8100 Series can lead to significant operational cost savings. The series simplifies surveying, configuring, deployment, monitoring and reporting functions, and also includes self-diagnosing and self-healing capabilities to support mainstream WLAN applications as efficiently as possible.

Better return on investment

By integrating wired and wireless physical access technologies into a common set of

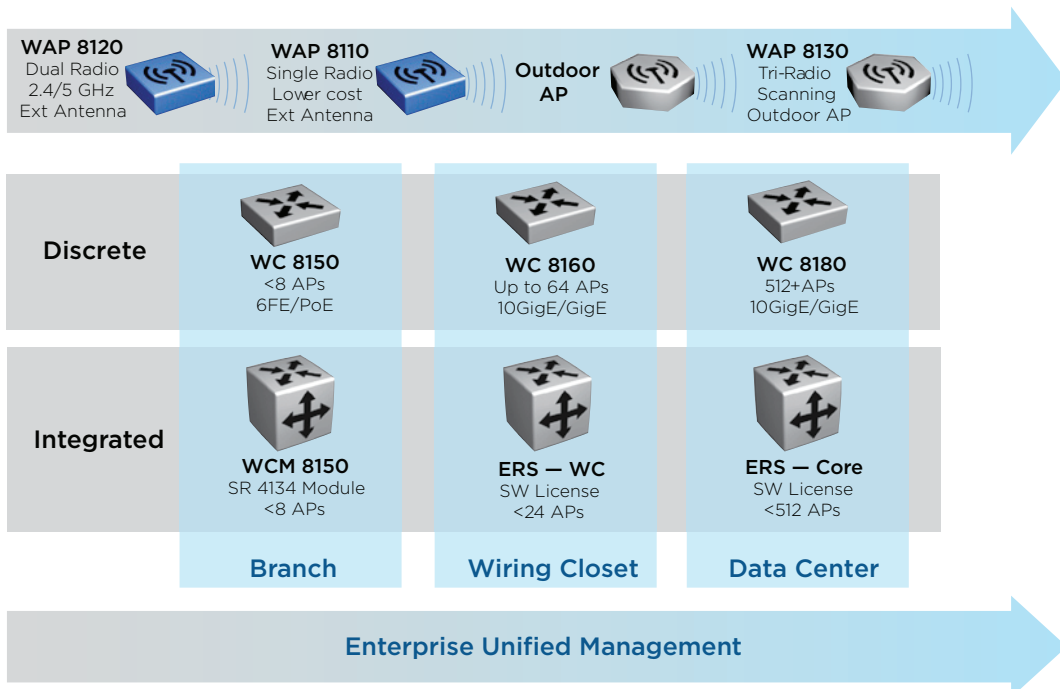


Figure 1: WLAN 8100 Series Portfolio

networking systems, the WLAN 8100 Series enables the enterprise to reuse common hardware and forego additional capital investment. The integration also results in fewer components, efficient scalability and the ability to operate the network as a common system, both from a management and a security perspective. Avaya's WLAN 8100 access points will provide two radio, two spatial stream MIMO capabilities while keeping power draw within the current 802.3af Power over Ethernet specifications.

The Unwired Enterprise — a new era of WLAN

Avaya envisions a future where the wireless bandwidth that users will receive will deliver services at levels equivalent to wired LANs. This will enable office environments to be entirely wireless and integrated with existing fixed and cellular wide area networks, giving workforces seamless universal mobility both in and out of the office. This capability will be enabled by a true wireless broadband infrastructure capable of supporting all communications needs, including voice, video, unified communications, and other real-time applications.

WLAN 8100 SERIES: AN UNWIRED ENTERPRISE ENABLER

While wire remains the mainstay of office environments today, the enhanced throughput and range that 802.11n offers over 802.11 a/b/g makes WLAN a viable alternative to wired networking for end user connectivity.

Avaya welcomes a future where office environments will be entirely wireless, where the bandwidth users will receive from their wireless connection will be sufficient to support all the applications they would use on a wired LAN. But Avaya's vision of the Unwired Enterprise goes far beyond the elimination of wiring. Avaya saw the opportunity to create a dramatically simplified network infrastructure that enables enterprises to achieve new levels of workforce productivity, operational efficiency and ultimately—competitive advantage. The days of disparate networks, applications, tools and network management are coming to an end and Avaya is leading the way in ensuring this with its new WLAN 8100 Series offering.

The WLAN 8100 Series delivers a simpler, lower cost solution that offers common policies and tools for security, guest access and network management across the wireless and wired network infrastructures.

As we enter the Unwired Enterprise era, Avaya is committed to developing solutions that deliver true unification — and WLAN technology is an integral part of that. The WLAN 8100 Series, which is built from the ground up within Avaya, leverages the company's rich voice and carrier-grade heritage and a decade of innovation in wireless. The WLAN 8100 Series integrates wireless capabilities into Avaya's award-winning Ethernet Routing Switch portfolio. Unlike other solutions in the marketplace today, the WLAN 8100 Series embeds the wireless data plane into the switching infrastructure enabling common hardware reuse, fewer components, common scalability and an ability to operate the network as a single system from a management and security perspective. This true integration drives simplification and reduced operational costs.



About Avaya

Avaya is a global leader in enterprise communications systems. The company provides unified communications, contact centers, and related services directly and through its channel partners to leading businesses and organizations around the world. Enterprises of all sizes depend on Avaya for state-of-the-art communications that improve efficiency, collaboration, customer service and competitiveness. For more information please visit www.avaya.com.



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