Wireless Access Solutions

Bringing the Power of Virtualization to Wireless – vWLAN

Virtualizing the Wireless Network

ADTRAN's next-generation vWLAN architecture brings all the benefits of virtualization to the wireless network. vWLAN unifies wireless and existing wired networks to produce a truly integrated and optimized networking solution. vWLAN enables customers to dramatically reduce the cost of deploying and operating large-scale Wi-Fi networks while providing wired-equivalent performance to wireless users, with seamless roaming and enterprise-class security and policy management.

Simplified Scalability

vWLAN architecture was designed around a concept of simplified scalability and flexibility. In the era of wireless advancements including 802.11n, voice, and larger wireless networks; maintainability and Total Cost of Ownership (TCO) are at the forefront of new network designs. vWLAN removes the complexities and limitations of dealing with controller capacity by centralizing the management and control functions. Further advantages are gained with security and mobility distributed at the edge of the network, the logical placement in networks that are designed for scalability and high availability. Adding additional access points to the vWLAN system is as easy as installing an ADTRAN software license, which extends coverage to thousands of APs without needing to worry about controller capacity or adding additional hardware.

Unprecedented Wireless Security

ADTRAN's robust security architecture is integrated into vWLAN providing NAC, authentication server integration, enhanced guest access, and policy enforcement. These security features are optimized for performance and scalability. vWLAN's identify-based access control removes restrictions that were part of traditional wireless LAN solutions and provides more flexibility in managing wireless access.

Optimized Performance

With vWLAN, 802.11n system capacity is no longer computed by the backplane capacity of the hardware-based controller; rather, it's determined by the aggregate throughput of the APs. This is a revolutionary change from traditional, centralized wireless LAN solutions. The vWLAN distributed architecture enables over a 10x increase in the total capacity.

Because the packet forwarding functionality is offload- ed from the controller to the access point, the controller is free to now manage thousands of AP's and 10s of thousands of users.
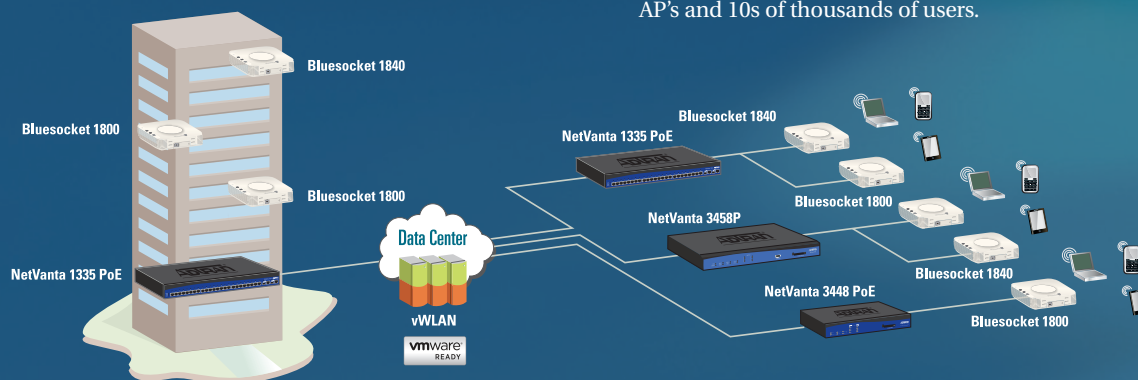
Plug-and-play Wireless Deployments

ADTRAN's family of high-performance Access Points (APs) are the perfect fit for enterprises looking to deploy secure wireless networks. An integral component of the vWLAN solution, these APs are completely plug-and-play requiring no manual configuration and deliver optimal performance with ADTRAN's DynamicRF™ technology. Whether you want to add wireless to your office or light-up an entire campus, ADTRAN's Bluesocket APs are designed to meet your needs.

Endpoint Compliance

BlueProtect™ is an integrated endpoint client scanning solution. With BlueProtect, IT staff can be confident that client devices connecting to the corporate wireless network are safe and will not introduce threats into the network environment. After completing the scan, the AP receives the updated role information and begins switching the client traffic locally. Managed via the administration GUI of vWLAN, BlueProtect allows IT staff to monitor, control and enforce policies relating to:

• Anti-Virus
• Anti-Spyware
• Firewall
• Files/Registry
• Custom Rules
• Peer-to-Peer Applications
• OS/Patch Level

Bluesocket 1800

■ Two 802.11a/b/g/n dual band radios

■ Embedded 2nd generation MIMO antenna

■ A Gigabit Ethernet port for dual concurrent 40 Mbps streams

■ 802.3af compliant PoE support

Bluesocket 1840

■ Two 802.11a/b/g/n dual band radios

■ Six R-SMA connections for external antennas

■ A Gigabit Ethernet port for dual concurrent 40 Mbps streams

■ 802.3af compliant PoE support

■ Functions in 802.11a/b/g mode with an optional 11n license upgrade

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