

Why Buy **Bluesocket vWLAN**

ADTRAN's Bluesocket vWLAN Solutions



Solutions Overview

ADTRAN's Bluesocket® vWLAN® offers the industry's first cloud-based, virtualized management and control solution for wireless LANs, eliminating physical, hardware-based controllers from the network. By removing 100 percent of the controller hardware, Bluesocket vWLAN eliminates scale limitations, and enables management and control of Access Points (APs) across multiple buildings, the corporate campus or across any geographic location.

What can the ADTRAN Bluesocket vWLAN Solution do for You?

- **Utilize Virtualization to Easily Address Wireless Growth:** Enables an enterprise to cost effectively address continuous wireless growth. Quickly and securely scales the network to support an influx of users and new devices—tablets, smartphones, laptops and other wireless devices.
- **Enable Cloud-based Management and Control:** Allows for cloud-based, centralized management and control of APs located anywhere in the world.
- **Unified Access Throughout the Enterprise:** Control users entering the network from wired ports and any third-party wireless AP. In addition, this provides customers with a migration path from older APs.
- **Integrated Guest Access Solution:** Included in the vWLAN software is a fully functional guest access solution that allows IT managers to quickly administer, customize and manage user access for visitors.

- **Unmatched Security:** Offers unmatched security with role-based access control, intelligent APs that enforce policies at the edge, and support for multiple encryption protocols.
- **Higher Reliability:** vWLAN's unique distributed, out-of-band, controller-less architecture splits the data plane (residing on the APs) from the control plane (residing in the datacenter or cloud). This separation of the control plane and data plane increases reliability allowing for hit-less failover and ensures "zero" packet-loss.
- **Interoperability:** Wi-Fi® certified from the Wi-Fi Alliance, guaranteeing interoperability with all client devices.
- **Sustainable "green" WLAN:** Supports a customer's corporate sustainability strategy by eliminating hardware controllers, which typically account for 80 percent of total energy usage withing a wireless network.
- **DynamicRF:** Smart APs constantly monitor the RF spectrum for RF noise, interference, coverage holes, and optimize power and channel settings to ensure optimal performance.
- **RF Intrusion Detection System (IDS):** Built-in RF IDS within smart APs allows you to identify rogue APs, rogue clients, ad-hoc networks and a host of wireless LAN DoS and spoofing attacks that threaten the security of your network.



vWLAN Benefits

- **Provide seamless, cost-effective scaling:** vWLAN separates the control and data plane. This allows for software driven scaling and greater capacity. Adding more APs (data plane) does not drive an increase in the control plane.
- **Centralized management and control:** Virtualization permits a single vWLAN installation in one city to control APs anywhere in the world.
- **Enforce network security at the edge:** vWLAN takes advantage of intelligent APs with built-in stateful firewall to enforce security policies at the edge.
- **Inherent reliability:** Separating the control and data planes, vWLAN ensures that an interruption in the control plane does not offset user connectivity. vWLAN can be configured in a high availability arrangement such that a failover can take place with zero packet loss.
- **Choice of deployment options:** Deploy within your datacenter on a virtual appliance (VMware®) or appliance (hardware) or via ADTRAN® ProCloud™ Wi-Fi, a "No Worry" fully managed, Wi-Fi service.
- **Lower Total Cost of Ownership:** By eliminating hardware controllers, both the initial CAPEX and associated OPEX is removed, reducing TCO.



Ordering Information

Equipment	Part #
vWLAN Virtual Appliance (VMware)	1951900G1
vWLAN Appliance (Hardware)	1700900F1
Bluesocket 1800 Access Point: 802.11a/b/g/n; 2x3:2 with six internal MIMO antennas	1700910F1
Bluesocket 1840 Access Point: 802.11a/b/g/n; 2x3:2 with six external RP-SMA connectors	1700911F1
Bluesocket 1920 Access Point: 802.11a/b/g/n; 2x2:2 with four internal MIMO antennas	1700954F1
Bluesocket 1925 Access Point: 802.11a/b/g/n; 2x2:2 with four external RP-SMA connectors	1700955F1
Bluesocket 1930 Access Point: 802.11a/b/g/n; 3x3:3 with six internal MIMO antennas	1700950F1
Bluesocket 1935 Indoor Access Point: 802.11a/b/g/n, 3x3:3, with six external RP-SMA connectors	1700951F1
Bluesocket 1940 Outdoor Access Point: 802.11a/b/g/n, 3x3:3, with six external N-type connectors	1700952F1
Access Point vWLAN Software License	1951901G1
Access Point High Availability Software License (optional)	1951904G1
Access Point Unified User Access (Wired and Third-Party AP Support) Software License (optional)	1951910G1
ProCloud Wi-Fi (5x8xNBD) – 1-year (managed Wi-Fi service with NBD hardware replacement)	1100MSPM200112
ProCloud Wi-Fi (5x8xNBD) – 3-years (managed Wi-Fi service with NBD hardware replacement)	1100MSPM200136
ProCloud Wi-Fi (5x8xNBD) – 5-years (managed Wi-Fi service with NBD hardware replacement)	1100MSPM200160
ProCloud Wi-Fi (7x24x4) – 1-year (managed Wi-Fi service with 4-hour hardware replacement)	1100MSPM300112
ProCloud Wi-Fi (7x24x4) – 3-years (managed Wi-Fi service with 4-hour hardware replacement)	1100MSPM300136
ProCloud Wi-Fi (7x24x4) – 5-years (managed Wi-Fi service with 4-hour hardware replacement)	1100MSPM300160

Comparison Chart: Traditional WLANs vs. vWLAN

	Traditional WLAN	vWLAN
	Physical Hardware Controller	Virtualized Management & Control
Controller Infrastructure	Hardware controller at each site	One Software Instance
Access Points Supported	150	1,500+*
Users Supported	4,000	48,000+*
Typical Cost	\$25,000	\$0
Upgrade Process	Forklift Upgrade	Software Upgrade
Architecture Design	Traditional: All Traffic Must Travel Through HW Controller	Distributed: Separates the Control and Data Plane
Throughput	Backplane Capacity of HW Controller (20-30 Gbps)	Aggregate Throughput of all APs Combined e.g. 1,000 Access Points (200-300 Gbps)
Deployment Options	On-premises Only	Flexible – on-premises, Private Cloud, Public Cloud
Guest Access	Requires Additional Hardware and Software	Included in Software
Unified Support		
Support of Users Through Wired Ports	Requires Additional Hardware	Software Option
Support of Users Through Third Party Access Points	No	Yes (Software Option)
Support of Virtualization Strategy	No	Yes
Single Point of Failure	Yes (HW Controller Based)	No (Data Center Based)
Control Plane Interruption	Data Session is Severed	Data Session is Unaffected
High Availability	Requires Duplicate Hardware Controller	Software Option
Failover	Packet Loss	Hitless
Security		
Unwanted Traffic	Travels on Network to Hardware Controller	Turned Away at the Access Point
Central Point of Risk	Centralized Hardware – Target for Hackers	No Centralized Hardware – Removes Hacking Risk
VMware Ready Certified	No	Yes
Sustainability		
Energy Costs	No Improvement	Reduced by 80%
HW Waste Disposal	No Improvement	Reduced
CO2 Emissions	No Improvement	Reduced

*Scalability (APs/Users) of the vWLAN Virtual Appliance is based on the VMware server hardware (CPU/Cores, Memory) specifications.

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