



# Bluesocket® vWLAN®

## Comparison Chart

### Traditional WLAN vs. vWLAN

	<b>Traditional WLAN</b>	<b>vWLAN</b>
	<b>Physical Hardware Controller</b>	<b>Virtualized Management &amp; Control</b>
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's specifications (CPU/Cores, Memory). See vWLAN datasheet for minimum resource requirements to support 1,500 APs.



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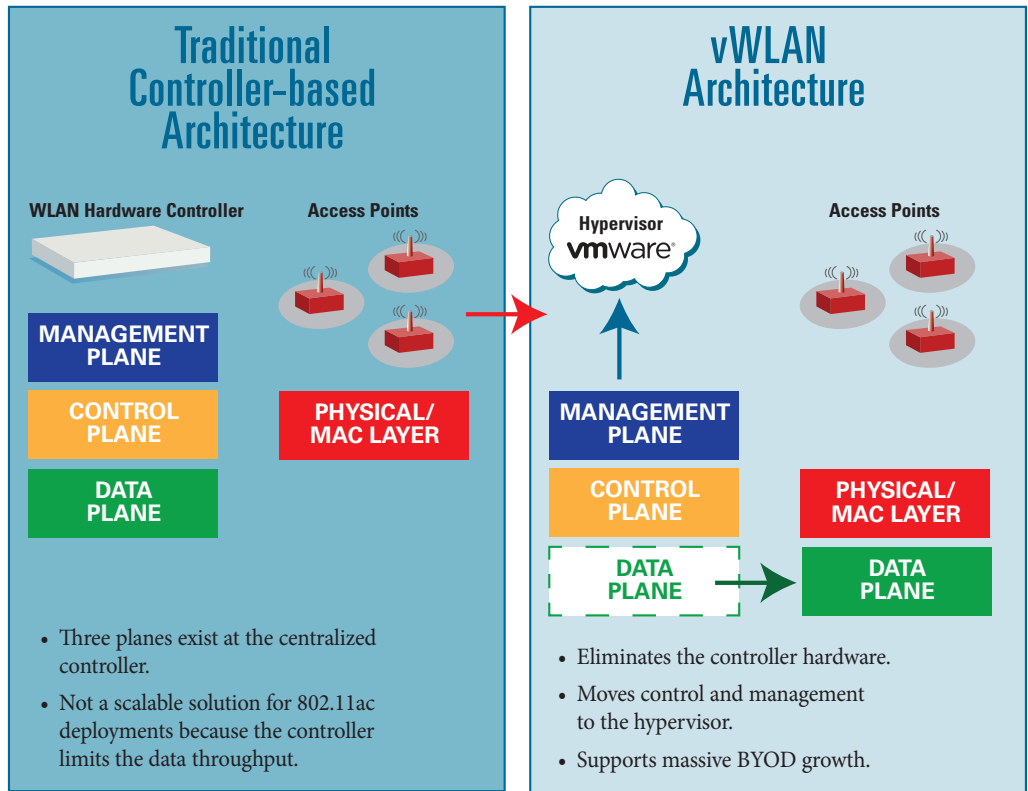
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# Bluesocket vWLAN

Bringing the Power of Virtualization to Wireless

**Within a wireless LAN, legacy hardware controllers have complexities and scale limitations — the method of scaling has been to add more and more costly hardware controllers.** ADTRAN's vWLAN solution brings the power of virtualization to wireless networks. vWLAN virtualizes network control and management onto software which runs on a hypervisor (e.g. VMware) or a virtual appliance. vWLAN eliminates the need, cost, and all the operational constraints inherent to hardware controllers — resulting in significant cost savings (CAPEX/OPEX/TCO).

## What is Wireless LAN Virtualization?



ILL308B



**First and only  
 WLAN Solution  
 with control based  
 on VMware.**

