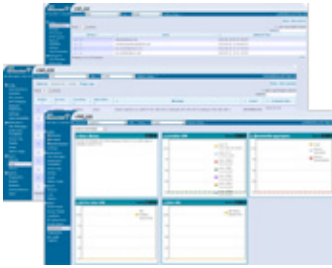# Bluesocket vWLAN Multi-tenant

Enabling a Profitable, Cost-Effective Wireless LAN Service

Product Features

- Cloud-based management and control

- Supports multiple cloud connectivity options – MPLS, Metro-E, Internet, T1/E1

- Secure TLS communication for control path

- Supports multiple deployment models

- Multi-level administration hierarchy

- Simplified integration into existing Network Operations Center (NOC) environment

- Security enforced at the edge

- Complete isolation between NOC and client environments

- Real-time alarms, logs and system health dashboards

- Robust multi-level reporting

- Business continuity and high availability

- Simplified upgrades

ADTRAN® Bluesocket® vWLAN® is the industry's first virtualized Wireless LAN (vWLAN) solution, based on VMware®. Bluesocket vWLAN's unique virtualized cloud-based control and management architecture eliminates the scale and cost constraints of physical controllers, maximizing scale, security and reliability. Bluesocket vWLAN is also revolutionizing wireless LANs by enabling service providers to offer a hosted wireless LAN service leveraging their existing data center and virtualization investments.

Multi-Tenant Support

ADTRAN enables service providers to take it to the next level with multi-tenant support—configure, control, and manage both users and Access Points (APs) for up to 50 tenants on a single Bluesocket vWLAN virtual software instance. With Bluesocket vWLAN's virtualized infrastructure, service providers can now offer a cost effective, profitable wireless LAN service.

Cloud-based Management and Control

Bluesocket vWLAN centralizes control and management in the cloud, enabling a service provider to control and manage any AP in the networked world over a public or private cloud. Scalability is also simplified as expanding coverage for tenants is simply a matter of adding APs.
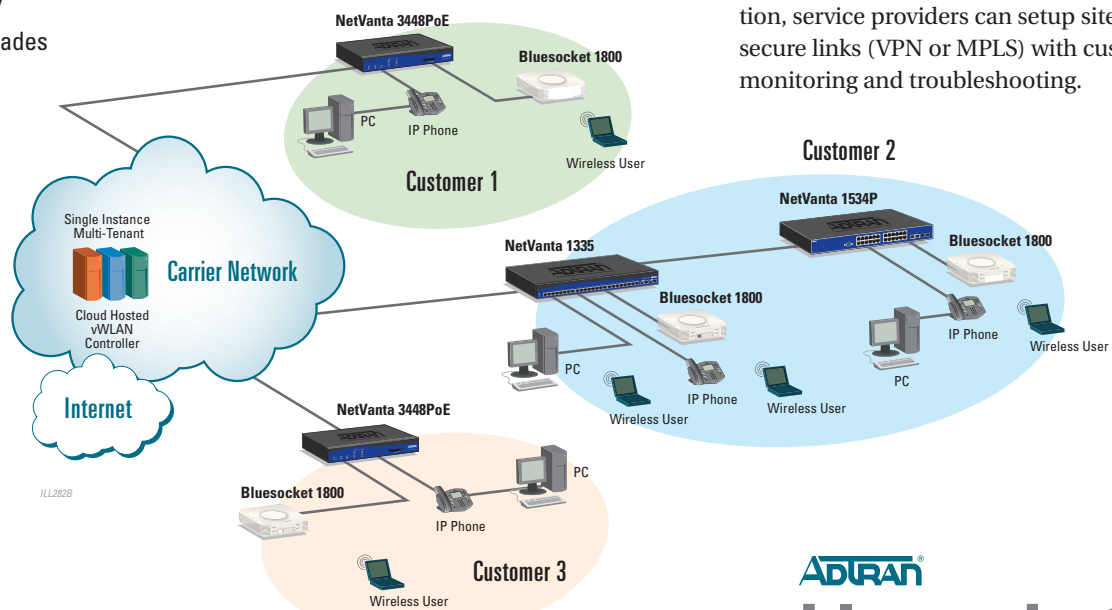
Flexible Management Options

Not all clients are alike and each client may require different levels of control over their wireless LAN environment. With Bluesocket vWLAN Multi-tenant, you can offer:

- **Cloud Hosted WLAN:** Control software resides in the service provider cloud; the client has full admin rights to create and manage users and APs, and generate reports

- **Cloud Managed WLAN:** The service provider is responsible for managing users and APs, while providing reports and monitoring alerts

- **Cloud Hosted and Managed WLAN:** The service provider takes complete responsibility for hosting and managing the client's wireless LAN environment

Simplified Integration

Bluesocket vWLAN Multi-tenant provides simplified integration allowing service providers to streamline operations and generate revenue faster. Bluesocket vWLAN provides APIs that allow integration with the existing provisioning system to automate creation of tenants and tenant administrators; SNMP traps allow simplified integration with the service provider's monitoring system; and Bluesocket vWLAN integrates with a carrier's or tenant's on-premise Authentication Server (802.1x/EAP Server, Radius or LDAP). In addition, service providers can setup site-to-site secure links (VPN or MPLS) with customers for monitoring and troubleshooting.

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Bluesocket vWLAN Multi-tenant

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Enterprise Class Security

Bluesocket vWLAN offers enterprise-class security, which is enforced at the edge. The intelligent APs run a stateful firewall that ensure malicious traffic is turned away before it enters the customer's LAN. Also the distributed data architecture ensures there is no single point hacking target, eliminating hacking threats.

Granular, Customizable Administrator Access

Bluesocket vWLAN's multi-tenant architecture allows the service provider to configure domain (tenant) administrators with varying degrees of access. This customizable approach allows the platform administrator (service provider admin) to configure all system-related items and create new domain administrators who have respon-sibility for a certain domain or tenant. These domain administrators are completely isolated from other domains, ensuring the highest levels of data privacy.

Reports and Alerts

Bluesocket vWLAN provides multi-level reporting based on user role. Clients can view detailed reports on health of each AP, and can create custom dashboards that provide at-a-glance view of the health of the system. Service providers in turn have the ability to view the health of client environments as well as overall platform-level health information.

Business Continuity

A key feature of Bluesocket vWLAN is the ability to provide High Availability (HA) by simply creating an additional instance of the virtualized software in the backup data center and upgrading the AP license to HA mode. In the event of a client losing network connectivity to the primary instance, the APs will automatically switch over to the backup vWLAN instance with zero packet-loss. Even if the primary instance of the platform itself fails, client APs are automatically pointed to the secondary instance ensuring business continuity.

Seamless Upgrades

Upgrades are seamless with Bluesocket vWLAN. When a new version of the software is available, the service provider can force a failure on the primary instance and the APs automatically point to the backup instance for control information. Once the primary instance has been upgraded and service re-instated, the APs will point back to the primary instance and the backup instance can be upgraded. In addition, with the cloud-based controller, upgrading an end-user customer to 802.11ac requires a simple swap of APs.
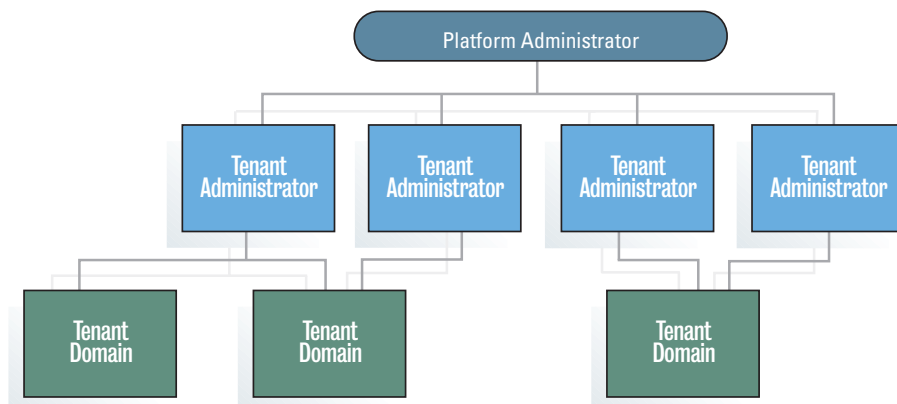
Multi-Region Support

Bluesocket vWLAN and the APs have been approved for use in all regions of the world. This allows service providers to address the needs of multi-national corporations, with offices in different countries, with a seamless, consistent wireless LAN offering.

Ordering Information

Equipment	Part #

vWLAN Control and Management Software
  vWLAN VMware-Ready Software:
    For existing VMware ESX/ESXi platforms
	1951900G1

Bluesocket 1800 Access Point: 802.11a/b/g/n, six internal MIMO antennas	1700910F1
Bluesocket 1840 Access Point: 802.11a/b/g/n, six external RP-SMA connectors	1700911F1
Access Point vWLAN Software License	1951901G1

Multi-tenant Administrator Model