

# Bluesocket vWLAN

## Next-Generation, Virtual Wireless Networking

### Virtualization Can Go Even Further

By leveraging VMware, an organization can optimize the use of power-hungry servers. The reduction in power consumption is achieved without sacrificing the performance of the applications. VMware can right-size the server infrastructure that supports the data center, but what about the various single-purpose servers that are deployed in an organization? These single-purpose servers are often hidden away in equipment closets and networking racks. These single-purpose servers consume a considerable amount of energy on an individual basis. Because they are not deployed in the data center, they often go undetected in a sustainability audit.

### Eliminate Single-Purpose Servers

One type of single-purpose server is the wireless controller. This server controls the activities of wireless access points. The use of wireless networks is a step toward a more sustainable operation because the elimination of physical wires reduces the carbon footprint. But conventional controller-based wireless networks negate this advantage by adding a server that consumes resources in its production and consumes power in its operation.

### Virtualization Meets the WLAN

Bluesocket has introduced breakthrough technology that combines virtualization with wireless networking. Called vWLAN, this innovation eliminates the physical controller and places control on the hypervisor of VMware. With vWLAN, all the green advantages that VMware brings to the data center are leveraged into the wireless network.

Eliminating a controller has significant benefit for a single location but it has an even greater impact for a multi-site company. The nature of vWLAN allows for control of access points anywhere there is a connection to the Internet. vWLAN not only eliminates costly controllers at the headquarters site but it eliminates controllers at every site.

### Learn More

To learn more about VMware solutions and products, visit <http://www.vmware.com> or call 1-877-4VMWARE.

### Solution Overview

A leader in providing secure wireless solutions since 2000, Bluesocket developed its next-generation wireless solution to meet the explosive growth of high-bandwidth devices. The first and only WLAN solution to be managed and controlled on VMware, vWLAN eliminates the need for physical controllers, vastly reducing initial capital costs and ongoing maintenance cost.

By basing the solution on VMware, Bluesocket frees the control of the wireless network from the LAN, making it possible to control wireless access points from anywhere in the networked world. IT departments can enjoy more flexibility since the control function does not have to reside on the same LAN as the access points.

- **Greater network capacity**

The capacity of the network does not depend on the backplane of a controller. As access points are added, the total capacity of the system increases.

- **Higher reliability**

Because vWLAN separates the control and data plane, a control plane failure does not interrupt data flow, providing zero failover time and zero packet loss.

- **Increased network security**

Firewall and security policies are enforced at the access point before unwanted and unmanaged traffic enters the LAN.

- **Lower costs**

In addition to eliminating costs associated with controllers, vWLAN eliminates the need for separate hardware platforms to perform specialized functions such as guest access and network access control. These functions are included in the software.

### Two Leaders in Combination

Bluesocket and VMware offer customers the opportunity to leverage the experience and expertise of two leaders in the development of solutions that comply with sustainable business goals.

# Partner Solution Profile



## PARTNER PROFILE

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### Overview

Bluesocket is a leading provider of secure, high-performance wireless networks for large enterprise customers. Bluesocket's award-winning vWLAN is a breakthrough innovation that brings virtualization to the WLAN. Based on a distributed architecture, vWLAN optimizes security, accelerates performance, enables mobility, and provides unmatched scalability.

### Key Business Needs

To support the ever-growing number of devices demanding bandwidth-intensive applications, IT departments need to enable faster, more powerful wireless solutions that are secure and easy to use. Plus, CIOs want to reap the benefits of virtualization but are struggling to virtualize applications that seem to only exist in the physical environment.

### Key Business Benefits

Bluesocket vWLAN reduces costs by eliminating the WLAN controller and leveraging the scaling power of VMware, while still providing high levels of network security and ease of use.

### Business Results

- Manage the network with fewer employees
- Reduce costs by eliminating the need for a controller
- Install and scale at lower costs
- Bring new software releases online at any time
- Enable employees to use a wider range of devices

### Products

- Bluesocket Access Point
- Bluesocket vWLAN
- VMware

