



# High Availability for vWLAN

## Provides Hitless Failover to a Secondary vWLAN Control Instance

### Product Features

- Eliminates need for costly, duplicate controller hardware for failover
- Provides fault-tolerant environment ensuring uninterrupted connectivity
- Ensures hitless failover with zero packet loss
- Offers selective assignment of high availability coverage on a per access point basis



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



### Virtual Wireless LAN (vWLAN®)

vWLAN is the only wireless LAN solution with control and management virtualized on software residing on a hypervisor or on a virtual appliance. Rather than deploying hardware controllers to operate a wireless network, vWLAN enables an enterprise to leverage virtualization and eliminates all the constraints and costs of physical hardware controllers.

### Inherent Reliability

By separating the control and data plane, vWLAN is inherently more reliable than the conventional hardware-based controller architecture. vWLAN's reliability advantage ensures that an interruption in the control plane does not interfere with the data plane. Reliability is based on the dependency of the data center as opposed to a single purpose hardware controller. Even with this reliability advantage, some customers want to increase the reliability of the solution by adding redundancy for the control plane to achieve a truly high availability, fault tolerant environment with hitless failover and zero packet loss.

### High Availability, Fault Tolerant Environments

Optional high availability software for vWLAN is designed to provide hitless failover with zero packet loss to ensure uninterrupted wireless LAN service even during a control plane failover. The 1+1 high availability scheme, which does not require the addition of new hardware, is based on installing both a primary and secondary vWLAN software control instance which can be deployed anywhere as long as the Bluesocket® access points and both control instances have

network connectivity to each other. vWLAN offers unprecedented flexibility, since the control instances and access points can be located independent of each other—anywhere in the networked world.

### Maximum Connectivity

The high availability software resides on the Bluesocket access points. In the event that a Bluesocket access point is unable to communicate with the primary vWLAN software control instance, it will instantly failover to the secondary vWLAN software control instance. vWLAN separates the control plane from the data plane, this ensures that an interruption in the control plane does not interfere with the data plane. Users connected to the Bluesocket access point remain connected, unaware and unaffected by the failover. This ensures greater connectivity resulting in maximum user productivity.

### Unprecedented Flexibility

vWLAN offers unprecedented flexibility because it allows the control instances and access points to be located independent of each other. The optional high availability coverage can be selectively assigned on a per access point basis as determined by the network administrator and easily expanded on an as needed basis.

### High Availability Throughout the Enterprise

The optional high availability software will support users accessing the network through wired ports or other manufacturers' access points. This ensures maximum connectivity throughout the enterprise—regardless of the access method.

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# High Availability for vWLAN

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### Ordering Information

| Equipment | Part # |
|-----------|--------|
|-----------|--------|

**vWLAN Control and Management Software**

|  |           |
|--|-----------|
| vWLAN VMware-Ready Software:<br>For existing VMware ESX/ESXi platforms | 1951900G1 |
|--|-----------|

|  |           |
|--|-----------|
| vWLAN Software: Pre-loaded bundle,<br>includes appliance | 1700900F1 |
|--|-----------|

**ADTRAN Bluesocket Access Points and Software**

|  |           |
|--|-----------|
| Bluesocket 1800 Access Point:<br>802.11a/b/g/n, six internal MIMO antennas | 1700910F1 |
|--|-----------|

|  |           |
|--|-----------|
| Bluesocket 1840 Access Point:<br>802.11a/b/g/n, six external RP-SMA connectors | 1700911F1 |
|--|-----------|

|                                     |           |
|-------------------------------------|-----------|
| Access Point vWLAN Software License | 1951901G1 |
|-------------------------------------|-----------|

**Accessories and Software Options:**

|                           |           |
|---------------------------|-----------|
| 12V External Power Supply | 1700911F1 |
|---------------------------|-----------|

|   |           |
|---|-----------|
| 802.3af compliant<br>Power over Ethernet (PoE) Injector | 1700920F1 |
|---|-----------|

|  |           |
|--|-----------|
| 2.4Ghz & 5Ghz Omni Antennas<br>for the Bluesocket 1840 | 1700939F1 |
|--|-----------|

|                           |           |
|---------------------------|-----------|
| Suspended Ceiling Bracket | 1700921F1 |
|---------------------------|-----------|

|  |           |
|--|-----------|
| High Availability Access Point Software:<br>Provides hitless failover to secondary<br>control instance | 1951904G1 |
|--|-----------|

|  |           |
|--|-----------|
| Unified User Access Control Software<br>for vWLAN: | 1951910G1 |
|--|-----------|

Supports 32 users per access point from a  
source other than a Bluesocket 1800/1840 AP



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