

Features and Benefits

Zero-configuration deployment

No changes required to routing/switching infrastructures; no manual configuration of APs

Centralized WLAN management

Visibility and control of the air space in all enterprise locations

Intelligent RF management

Self-configuration, self-healing, and self-optimization via AirWave Director Software

Air-tight security

Authentication, encryption, real-time intrusion protection, Network Access Control (NAC), and RF monitoring provide complete WLAN protection

Enterprise reliability

Automated recovery from access point and switch failures maximize WLAN availability

Airespace 3500

The Airespace 3500 is an integral part of the Airespace Wireless Enterprise Platform, delivering Airespace's award-winning Wireless LAN (WLAN) services to small and medium-sized enterprise environments. Similar to the Airespace 4000 WLAN Switch and 4100 WLAN Appliance, the Airespace 3500 is a centralized WLAN controller upon which enterprises can deliver intelligent WLAN services via lightweight Access Points (APs), including real-time RF management, seamless mobility, complete WLAN security, and real-time performance. The Airespace 3500 also provides zero touch configuration and DHCP services to support the unique requirements of small/medium WLAN deployments, making it a perfect addition to the Airespace Wireless Enterprise Platform.

The Airespace 3500 supports up to six LWAPP-enabled APs, such as the Airespace 1200 Access Point. Up to three APs can be directly connected to the built-in auto-sensing 10/100 Ethernet ports to deliver intelligent WLAN services. Or, the Airespace 3500 can be deployed in "appliance mode," in which up to six APs can be managed over an existing Layer 2 (Ethernet) or Layer 3 (IP) infrastructure. The Airespace 3500 can also be deployed in "hybrid mode", providing the same wireless functionality for up to six APs, whether directly or indirectly connected to Airespace hardware.

The Airespace Wireless Enterprise Platform provides a complete solution for all enterprise WLAN environments. This includes large business locations (served by the Airespace 4000 and/or Airespace 4100), small/medium offices (served by the Airespace 3500), and remote office facilities served by the Airespace 1200R Remote Edge Access Point, the only lightweight AP designed to work across a Wide Area Network (WAN) link.

Specific intelligent RF capabilities within the Airespace 3500 include:

- **WMM compliant QoS** – Intelligent queuing and contention management schemes enable real-time applications.
- **Dynamic channel assignment** – Automatic adjustment of 802.11 channels to optimize network coverage and performance based on changing RF conditions.
- **Interference detection and avoidance** – Automatic recalibration of the network to avoid performance problems.
- **Load balancing across multiple access points** – Optimizes network performance, even under heavy load.
- **Coverage hole detection and correction** – Ensures consistent wireless coverage.
- **Dynamic AP transmit power control** – Ensures predictable wireless performance and availability.

Easy to Deploy

The Airespace 3500 was designed for easy deployment in a branch office environment. This is achieved via the Lightweight Access Point Protocol (LWAPP) and the advanced RF management capabilities provided by Airespace’s patent-pending AireWave Director™ Software. With LWAPP, access points will automatically locate an Airespace WLAN switch when they are plugged into the network, downloading all of the appropriate configuration information based upon established Airespace Control System (ACS) policies. AireWave Director Software will automatically adjust network configuration based upon changing RF parameters to optimize network performance on an ongoing basis.

Easy to Manage

As with all Airespace products, the Airespace 3500 is managed using Airespace Control System (ACS) Software, the industry’s most powerful tool for WLAN systems management. With ACS, IT staff have a centralized way of providing consistent WLAN services across all business locations, including uniform security and Quality of Service (QoS) policies. IT staff can also configure the Airespace 3500 to support integrated DHCP services, alleviating the burden of managing static network addresses on wireless devices.

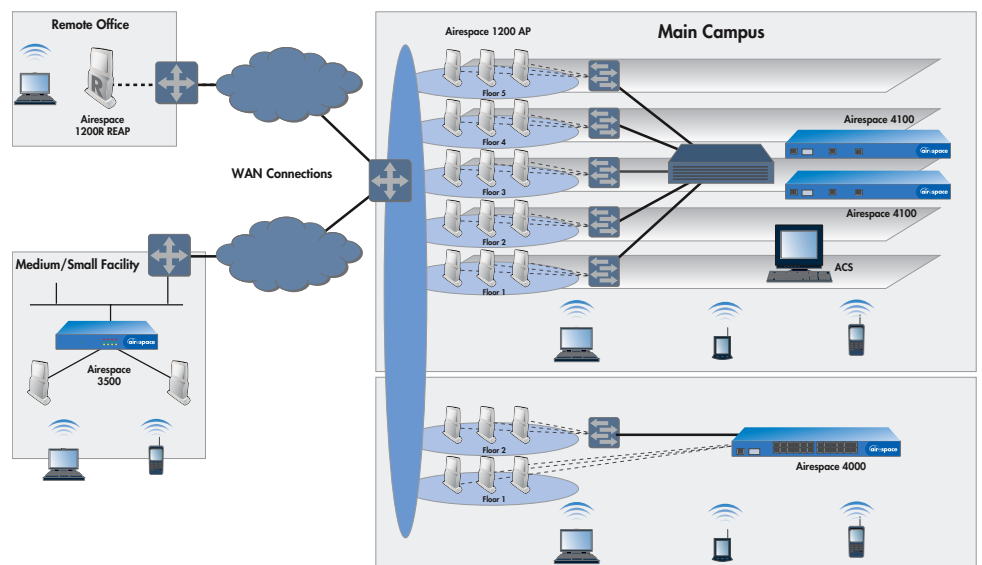
Same Great RF Management Capabilities

The Airespace 3500 optimizes WLAN performance and simplifies WLAN operations by delivering intelligent RF management capabilities to branch office environments. This includes dynamic channel assignment to avoid interference, AP load balancing for optimum network performance, automatic coverage hole detection and correction, and dynamic AP transmit power control.

Air-tight Security

All Airespace WLAN Switches and Appliances were designed to address the unique security requirements of wireless environments. This includes the following key capabilities:

- Identity-based security policies that give IT managers granular control over how users can use the wireless network and where they can roam
- Real-time intrusion detection and prevention, including rogue AP location and suppression
- Wireless attack detection and protection
- Location-based security



- 802.11i with Proactive Key Caching (PKC) for secure, real-time mobility
- Network Access Control (NAC) to ensure client integrity
- Proven 802.1X interoperability

Airspace offers a centralized policy engine for creating and enforcing security parameters across an entire enterprise. This enables uniform WLAN security policies to be delivered across an entire wireless enterprise, from corporate boardrooms to remote facilities.

Real-time Application Support

The Airspace WLAN system provides best-in-class performance to support real-time applications, such as voice. The Airspace 3500 enables rapid handoff between APs and between multiples switches, providing seamless mobility with no interruption in service to the client. Intelligent queuing and contention management schemes provide effective resource management of the air space. In addition, the Airspace 3500 supports Proactive Key Caching for real-time performance and seamless mobility when using 802.11i. Airspace also supports QoS capabilities that are WMM compliant and closely mirror the emerging IEEE 802.11e standard. Full compliance with the finished standard will be achieved via a software upgrade when the final standard is ratified.

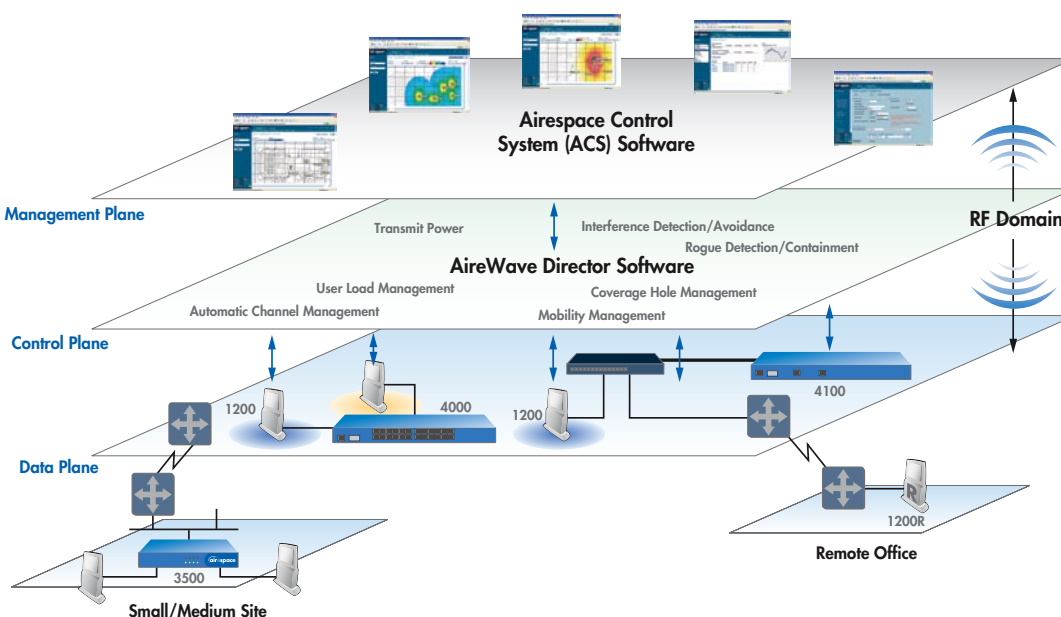
The Standard for Wireless LANs

Airspace has revolutionized the wireless space by bringing simplicity to day-to-day wireless network operations. This includes automated tools for RF deployment and optimization, fault tolerance, comprehensive policy management for seamless network mobility, and an end-to-end framework for enterprise-wide security.

The Airspace 3500 provides a secure and reliable platform for building business critical wireless networks. By delivering award-winning wireless functionality to small and medium offices, Airspace continues to set the standard for cost-effective enterprise wireless networking.

Some additional highlights of the security features contained within the Airspace 3500 include:

- **Wireless Intrusion Detection and Prevention** – Secures the wireless network from intruders; detects and contains rogue access points; support for IDS signatures.
- **Identity-based security policies** – Provides granular control over how users can use the wireless network and where they can roam.
- **Rogue AP detection, location and suppression** – Preserves WLAN integrity by ensuring that malicious users cannot access sensitive corporate information.
- **Fast mobility, secure roaming, and voice over WLAN** – Fast handoffs without any client software; security policies follow users as they roam.
- **Secure out of the box** – Built-in X.509 certificates ensure that the system is completely secure from the moment it is turned on.



Specifications

Protocols and Standards

Wireless

IEEE 802.11a, IEEE 802.11b, IEEE 802.11g

Wireline/Switching

IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX specification,
IEEE 802.1Q VLAN Tagging

Data RFCs

RFC 768 UDP
RFC 791 IP
RFC 792 ICMP
RFC 793 TCP
RFC 826 ARP
RFC 1122 Requirements for Internet Hosts
RFC 1519 CIDR
RFC 1542 BOOTP
RFC 2131 DHCP

Security Standards

Wi-Fi Alliance WPA
IEEE 802.11i (WPA2, RSN)
RFC 1321 MD5 Message-Digest Algorithm
RFC 2104 HMAC: Keyed Hashing for Message
Authentication
RFC 2246 TLS Protocol Version 1.0

Encryption

WEP and TKIP-MIC: RC4 40, 104 and 128 bits (both static
and shared keys)
SSL and TLS: RC4 128-bit and RSA 1024-bit and 2048-bit
AES: CCM, CCMP

Authentication, Authorization and Accounting

IEEE 802.1X
RFC 2548 Microsoft Vendor-Specific RADIUS Attributes
RFC 2716 PPP EAP TLS Authentication Protocol
RFC 2865 RADIUS Authentication
RFC 2866 RADIUS Accounting
RFC 2867 RADIUS Tunnel Accounting
RFC 2869 RADIUS Extensions
RFC 3576 Dynamic Authorization Extensions to RADIUS
RFC 3579 RADIUS support for EAP
RFC 3580 IEEE 802.1X RADIUS Guidelines
RFC 3748 Extensible Authentication Protocol
Web based authentication

Management

SNMP v1, v2c, v3
RFC 854 TELNET
RFC 1155 Management Information for
TCP/IP-based Internets
RFC 1156 MIB
RFC 1157 SNMP
RFC 1213 SNMP MIB II
RFC 1350 TFTP
RFC 1643 Ethernet MIB
RFC 2030 SNMP

RFC 2616 HTTP
RFC 2665 Ethernet-like interface types MIB
RFC 2674 Definitions of Managed Objects for Bridges
with Traffic Classes, Multicast Filtering and Virtual
LAN Extensions
RFC 2819 RMON MIB
RFC 2863 Interfaces Group MIB
RFC 3164 Syslog
RFC 3414 User-based Security Model (USM) for SNMPv3
RFC 3418 MIB for SNMP
RFC 3636 Definitions of Managed Objects for
IEEE 802.3 MAUs
Airespace private MIBs

Management Interfaces

Web-based: HTTP/HTTPS
Command Line Interface: Telnet, SSH, serial port

Interfaces and Indicators

Console Port: RS232 (DB-9 male, DTE interface)
Network: 4 10/100 Mbps Ethernet (RJ45 – 10/100
link, activity)
Other Indicators: Power

Physical and Environmental

Dimensions (WxDxH): 9.5 x 6.0 x 1.6 in.
(241 x 152 x 41 mm)
Weight: 2.45 lbs (1.11 kg)

Temperature:

- Operating: 32 to 104°F (0 to 40°C)
- Storage: -13 to 158°F (-25 to 70°C)

Humidity:

- Operating humidity: 10 – 95%, non-condensing
- Storage humidity: up to 95%

Power Adapter

- Input power: 100 – 240 VAC; 50/60 Hz
- Output power: +5V @ 3A; +12V @ 1A; 27 W

Compliance

Safety

- UL 60950-1:2003
- EN 60950:2000

EML and Susceptibility (Class B)

- US: FCC Part 15.107 and 15.109
- Canada: ICES-003
- Japan: VCCI
- Europe: EN 55022, EN 55024



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