

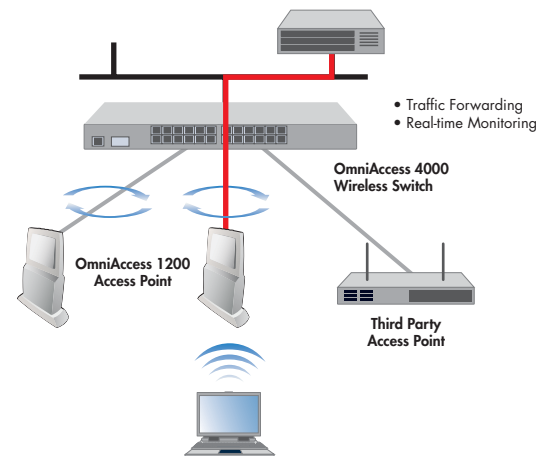


Alcatel OmniAccess 1200 Access Point

The Alcatel OmniAccess 1200 access point delivers optimal security, performance, and coverage for 802.11 wireless networks. It works in conjunction with the Alcatel 4000 WLAN switch and the Alcatel 4100 WLAN appliance to provide robust, cost effective wireless LAN (WLAN) services to enterprise environments.

The OmniAccess 1200 access point comes equipped with internal radios and sectorized antennae. Optional connectors are available for connectivity to external antennae. Enterprises have a choice between multi-mode 802.11 a/b/g and 802.11 b/g versions of the OmniAccess 1200 access point. All models are plenum rated. The various radio capabilities and deployment options of the OmniAccess 1200 access point make the Alcatel solution ideally suited for any enterprise environment.

The OmniAccess 1200 access point is the only access point solution that combines simultaneous data forwarding and air monitoring functions. This eliminates the need for additional monitoring nodes, which reduces the cost of deploying a wireless network. In addition, this simplifies network design and deployment and maximizes RF security by extending real-time monitoring to every corner of a wireless infrastructure.



Features and benefits

The Alcatel OmniAccess 1200 access point offers many features and benefits including:

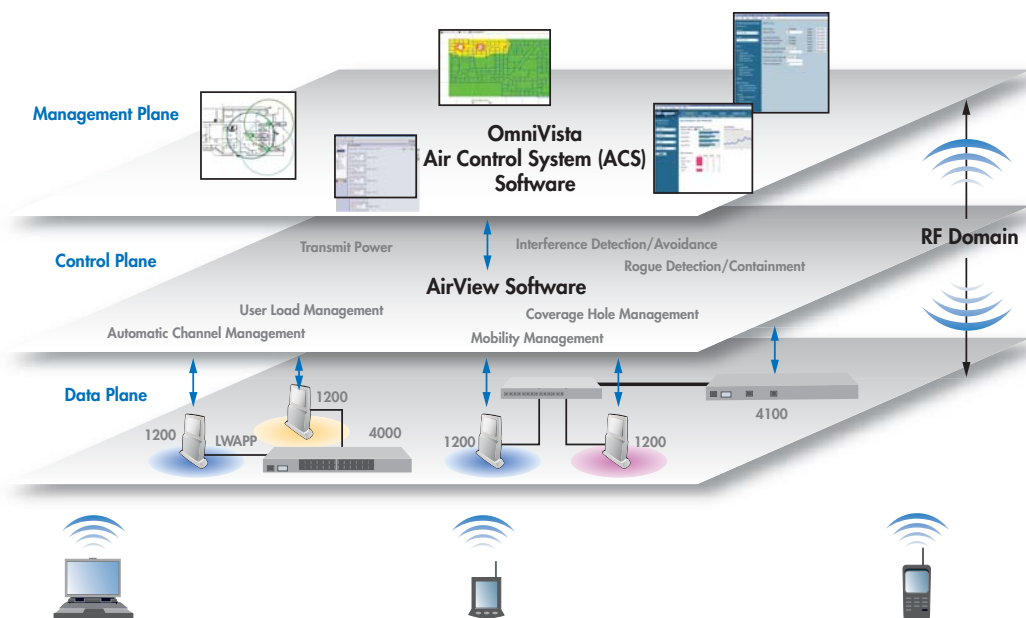
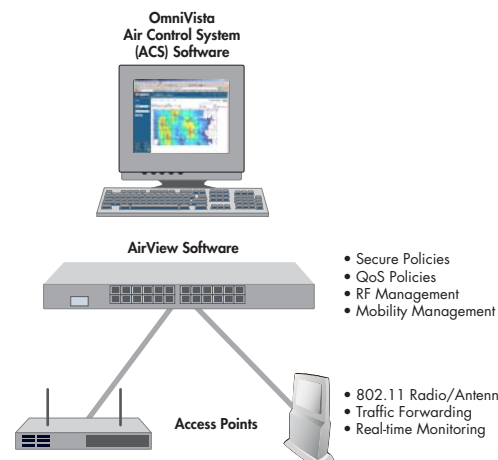
- **Zero-configuration and management**
- **Reduced cost and time to deploy a wireless network dramatically simplifying day-to-day operations**
- **Simultaneous air monitoring and data service**
 - Minimized equipment requirements
 - Simplified network design
 - Increased security through complete real-time monitoring across an entire network
- **Internal and external antenna options**
 - Provides flexible deployment and redeployment options
- **LWAPP enabled**
 - Insures interoperability with existing infrastructure and third-party WLAN equipment

Standards based

The Alcatel OmniAccess 1200 access point supports the emerging Lightweight Access Point Protocol (LWAPP), a specification being developed by the Internet Engineering Task Force (IETF) to ensure interoperability between access points and WLAN switches and appliances. The OmniAccess 1200 access point seamlessly integrates into a wireless network and provides long-term investment protection by adopting this standards-based protocol.

Zero-touch configuration and management

The OmniAccess 1200 requires no user configuration. Deploying thousands of them is simple – just plug it in to any device running standard Ethernet. The OmniAccess 1200 will automatically locate Alcatel WLAN switches and appliances over the Ethernet infrastructure. Once validated, the Alcatel WLAN appliance and/or switch automatically programs all appropriate security, quality of service (QoS) and other policy information on the Alcatel OmniAccess 1200s. Using Alcatel's AirView software, Alcatel WLAN switches and appliances can then set the channel and power output on these devices, ensuring optimal ongoing RF coverage and performance.



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IT staff easily perform software upgrades on Alcatel OmniAccess 1200 access points. Changes are automatically pushed to all OmniAccess 1200s from Alcatel WLAN switches and appliances, making upgrades seamless and cost effective. This ensures new wireless standards are supported with no hands-on intervention. This also ensures interoperability throughout the network since the software automatically remains consistent across the entire Alcatel system.

Security

The Alcatel OmniAccess 1200 works in tandem with Alcatel WLAN switches and appliances to create a completely secure wireless environment. The OmniAccess 1200 ships with a built-in X.509 certificate to prevent unauthorized access to an Alcatel network. Furthermore, when administratively enabled, the Alcatel OmniAccess 1200 supports 802.1x authentication / encryption and are hardware enabled for the emerging 802.11i standard. The OmniAccess 1200 also plays an active role in RF-layer security. Through integrated real-time air monitoring services, it helps detect and contain rogue access points and prevent RF-layer attacks, ensuring that malicious users cannot access sensitive corporate resources or disrupt normal activity.

Quality of service

Alcatel OmniAccess 1200s are an intrinsic component of Alcatel's comprehensive QoS framework. With intelligent queuing and contention management schemes, they provide effective resource management of the air space. This makes the Alcatel solution ideal for real-time applications, such as voice. Alcatel's wireless QoS capabilities closely mirror the emerging IEEE 802.11e standard. When completed, the Alcatel wireless system will be fully compliant with this specification via a simple software upgrade.



Radio Specifications

802.11a

- Data rate: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps
- Frequency band: 5.15 - 5.25 GHz, 5.25 - 5.35 GHz, 5.725 - 5.850 GHz
- Orthogonal Frequency Division Multiplexing (OFDM)
- Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)
- Non-overlapping channels: 13
- Typical receiver sensitivity: -72 dBm at 54 Mbps, -73 dBm at 48 Mbps, -78 dBm at 36 Mbps, 82 dBm at 24 Mbps, 83 dBm at 18 Mbps, 85 dBm at 12 Mbps, 88 dBm at 9 Mbps, 90 dBm at 6 Mbps
- Transmit Power: 5.150 to 5.250 GHz, 50 mW, 5.250 to 5.350 GHz, 50 mW, 5.725 to 5.850 GHz, 50 mW. Maximum power setting varies by individual country regulations 802.11b
- Coverage: 1130 ft (40m) at 11 Mbps, 350 ft (107m) at 1 Mbps

802.11b

- Data rate: 1, 2, 5.5 and 11 Mbps
- Frequency band: 2.4 - 2.4835 GHz
- Direct sequence spread spectrum
- Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)
- Non-overlapping channels: 3
- Typical receiver sensitivity: -89 dBm at 11 Mbps, -91 dBm at 5.5 Mbps, -92 dBm at 2 Mbps, -94 dBm at 1 Mbps
- Transmit power: 100 mW (20 dBm), 50 mW (17 dBm), 30 mW (15 dBm), 20 mW (13 dBm), 5 mW (7 dBm), 1 mW (0 dBm). Maximum power setting varies by individual country regulations

802.11g

- Data rate: 1, 2, 5.5, 11, 12, 18, 24, 36, 48, 54 Mbps
- Frequency band: 2.4 - 2.4835 GHz
- Direct sequence spread spectrum
- Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)
- Non-overlapping channels: 3
- Typical receiver sensitivity: -72 dBm at 54 Mbps, -76 dBm at 48 Mbps, -82 dBm at 36 Mbps, -85 dBm at 24 Mbps, -88 dBm at 18 Mbps, -90 dBm at 12 Mbps, -92 dBm at 9 Mbps, -92 dBm at 6 Mbps
- Transmit power: 100 mW (20 dBm), 50 mW (17 dBm), 30 mW (15 dBm), 20 mW (13 dBm), 5 mW (7 dBm), 1 mW (0 dBm). Maximum power setting varies by individual country regulations

Agency Approvals

Alcatel OmniAccess 1200

Safety - CSA 22.2 No. 950-95

CSA 1950

EMC - FCC Part 15 class A

EN55022 class A

ICES-003 (Canada)

FCC Part 15, Subpart E

FCC Part 15.247

IC RSS 210 (Canada)

Others IEEE 802.11a, IEEE 802.11b, IEEE 802.11g

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