OmniAccess 4000

WLAN STANDALONE WLAN SWITCH

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OVERVIEW

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The switches share a common set of advanced features to offer best-in-class security and accommodate demanding applications such as Voice over WLAN (VoWLAN). In addition, these WLAN switches simplify the deployment, monitoring and troubleshooting of the WLAN infrastructure.

The switches aggregate network traffic from access points (APs), process the traffic, and deliver it to the network.

The OmniAccess 4000 family includes multiple models designed to support the various requirements of differently sized wireless networks such as campus, branch office and small business networks. The OmniAccess™ 4306, 4306G/GW, 4504, 4604 and 4704 are fully featured WLAN switches designed from the ground up to support the traffic load of IEEE 802.11n high-speed wireless networks with the ability to aggregate up to 8, 16, 32, 64, and 128 LAN-connected APs respectively.

The OmniAccess 4306 and 4306G/GW are specially designed for cost-effective branch office deployment, providing advanced wireless services identical to those offered by the other 4000 family of WLAN switches. The OmniAccess 4306 and 4306G/GW go beyond pure wireless services by providing 3G connectivity, built-in print and file servers and secure Ethernet connectivity.

KEY BENEFITS

- Handles heavy traffic loads generated by IEEE 802.11n high-performance networks
- Supports “pay-as-you-grow” capability through software licensing model. WLAN switch AP capacity can grow with the addition of software licenses.
- Allows for overlay deployments without disruption to the existing wireline infrastructure
- Simplifies management by minimizing the number of network elements
- Provides analysis of the RF environment to facilitate deployment with self-tuning APs and to facilitate operation of the network with virtual real-time site survey
- Integrates both wireless networking and wireless intrusion detection and prevention, thus reducing the cost of wireless infrastructure and cost of operating the wireless network
- Provides visibility into sources of RF interference with integrated spectrum analyzer
- Prevents unauthenticated users from accessing the corporate wireless network, while safely supporting guest users, contractors and corporate users
- Decreases management burden of security through role-based security
- Allows for the real-time location tracking of wireless users to enrich presence information. Also supports location tracking of wireless asset tags throughout the enterprise
- Improves voice quality through support of QoS mechanisms such as Wi-Fi® multimedia (WMM), differentiated services code point (DSCP) marking and prioritization, and call admission control (CAC)
- Improves end users’ voice experience by maximizing battery life with protocols such as Unscheduled Automatic Power Save Delivery (U-APSD)
- Provides unmatched voice security through embedded stateful firewall
- Allows for seamless handoff of voice terminal as users move from AP to AP
- With application fingerprinting technology, enables identification of encrypted voice and video protocols and allows application of QoS
- In addition, branch office WLAN switches (OmniAccess 4306, 4306G/GW) provide USB ports, which can be used to connect storage devices or printers. These devices are then accessible anywhere in the branch network.
- Has provision for 3G connectivity, allowing the rapid setup of a branch network when no wired connection (DSL, for example) is available
- Can be used as a backup connection in case of primary wired link failure

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KEY FEATURES

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- High performance
- Scalable architecture
- Centralized WLAN switching
- Dynamic RF management
- Integrated wireless intrusion prevention
- Integrated spectrum analysis
- User-centric security with stateful firewall
- Real-time location tracking
- Application fingerprinting
- QoS, extended battery capabilities, seamless roaming for support of voice terminals
- 3G connectivity, built-in print and file servers and secured Ethernet connectivity available in branch office WLAN switches

TECHNICAL INFORMATION

Standalone models	Local access points*	Remote access points*	Mesh nodes*	Built-in access point	Fast Ethernet RJ-45 ports	Fast Ethernet PoE+ ports	GigE RJ-45 ports	GigE PoE+ ports	GigE combo ports	GigE SFP ports	10GigE XFP ports	Power supply AC/DC	Optional backup PSU	Height rack units	Redundant power supply
OmniAccess WLAN 4306G	16	64	64	0	0	0	2	4	0	2	0	AC	NA	1	NA
OmniAccess WLAN 4306GW	17	64	64	1	0	0	2	4	0	2	0	AC	NA	1	NA
OmniAcces WLAN 4505XM	32	128	128	0	0	0	0	0	4	0	0	AC	NA	1	NA
OmniAcces WLAN 4604	64	256	256	0	0	0	0	0	4	0	0	AC	NA	1	NA
OmniAccess WLAN 4704	128	512	512	0	0	0	0	0	4	0	0	AC	NA	1	NA

Remarks:

*Needs licensing

NA - not available

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