AXILSPOT

MODEL：AXC5000

HIGHLIGHTS

◆ TurboRF maximizes WLAN performance

◆ VisualSec - a comprehensive and visible security protection mechanism

◆ FlowPath - 1-7 layer dynamic flow control improves bandwidth utilization

◆ DPI+LBS+ Statistic Reports in-depth analytics exploits Wi-Fi value at depth

◆ Graphical Map View greatly reduces IT management workload

OVERVIEW

Axilspot AXC series is specially designed for enterprise-class WLAN system which deliver secure, stable and simple to manage WLAN solution at improved user-friendly experience. The built-in DPI engine improves the overall application of client monitoring and management. The Enterprise-class firewall ensures highly secure and reliable network. The TurboRF technology dynamically optimizes wireless performance in noisy environment. The graphical map view and visual management effectively reduces workload for large-scale networks. It delivers precise and efficient commercial data reports based on in-depth client behavior statistics analytics running on AXC data center. AXC5000 possesses powerful forwarding capability, high stability and scalability which is the unmatched choice for large-scale enterprises.

FEATURES

Multi-service System, Integrated Deployment

The AXC5000 is a real multi-service system integrated with services including gateway, firewall, WLAN control, Captive portal, and AAA server which reduce overall cost of network. Meanwhile intelligent redundancy, cluster and bypass features ensure high availability.

Unified Wireless Management, Flexible Data Forwarding

Layer 2 and Layer 3 deployment without changing the existing network structure. The AXC5000 supports 1200 access points management in central forwarding mode, and 2400 access points management in local forwarding mode.

VisualSec Ensures High-security WLAN

Flexible and high-grade security access

For different applications AXC5000 provides flexible and high-grade security access including SMS, Facebook, Captive portal, 802.1x, Active directory, LDAP authentication.

Application-layer access control, Sophisticated client security management

Besides access and flow control on clients and IP, The AXC5000 also supports DPI (Deep Packet Inspection) to identify client behavior with sophisticated IT management.

WIPS+ Firewall+ Tunnel Encryption, Comprehensive data security protection

The integrated WIPS module protects against Rogue AP, Rogue client behavior, to ensure data security.

Application-layer firewall supports sophisticated access control and attacks defense. All data transmission between AC and AP is tunnel encrypted to prevent from data leakage. Additionally, the Wi-Fi security report analytics makes the concern elements visible to facilitate the administrator to adjust security strategy as needed.

FlowPath, 1-7 Layer Dynamic Flow Control, Improving Bandwidth Utilization

The AXC5000 supports forwarding priority setting for VIP applications, for instance, the Email and CRM applications during work time. Business-critical traffic always enjoy higher forwarding priorities so that other lower-priority application traffic will not affect those VIP applications.

TurboRF, the Self-adaptive WLAN Technology

Load balancing based on clients, band and traffic flow distributes load pressure on each AP, and improves access throughput for each client to further ensure the WLAN with high availability. The auto channel and power adjustment optimizes the overall WLAN performance in a self-adaptive way. All clients can roam rapidly and freely on layer 2 and Layer 3 without network interruption.

Exploiting In-depth Wi-Fi Value with Value-added Services

LBS boosts in-depth marketing precision

Customized captive portal can be based on location, client and time verticals. More accurate location positioning, trackable client information, and client density check results in improved custom marketing promotions.

Statistic report building client image

Data collection on different regions, shops and customer location tracking, capture rate, repeat visit rates, user engagement, ADs clicks for improved shop operations. In addition, more valued commercial statistics like client identification, visited rates, shopping behaviors and preferences can also be analyzed. Combined with the shop membership system the client image can be created.

Open System Supporting Entirely Flexibility Expansion

Integrated with rich server features, the AXC5000 supports authentication, authorization, captive portal, location services without the need to connect to a third-party server. The AXC5000 also provides standard open interfaces for Active directory, Radius, Portal, Location server, SMS gateway, log server to perfectly match third-party services for system scalability.

Rapid Provisioning, Easy Management

Zero-touch deployment saves up to 90% installation time

Using SSID, Radio templates, the access points only need to connect to the network and get the AC templates and the deployment is all set. It help save up to 90% of installation time.

Graphical map view greatly reduces IT workload

AXC5000 internal heat map clearly shows the real-time status of each device and client, making network management more efficient. The customized statistic report provides various vertical dimension figure analytics, and supports auto-sending to the designated mail boxes.

Feature

Default managed APs (Centralized forwarding)	800
Max. managed APs (Centralized forwarding)	1200
Max. Managed APs (Local forwarding)	2400
Throughput	20G
Concurrent Stations	40000
New Connections	16000/s
Concurrent Connections	600000

Hardware specification

Dimensions	430*500*90mm
Weight	≤16kg
Management interface	1
Interfaces	6*10/100/1000Mbps
Indicator	Power, HDD LED, Bypass
Power Consumption	＜300W
Power Supply	100~240V AC、50~60Hz
MTBF	≥250000H
Operating Temperature	-10°C~55°C/-40°C～70°C
Operating Humidity	5% to 95% non-condensing

Software specification

WLAN Basic Configuration	AP Grouping	AP naming, group naming, AP parameter configuration, AP and SSID template binding, Radio template, Timing strategy template, ACL template, RF optimization template
	SSID Template	SSID naming, Authentication, Forwarding mode, VLAN configuration, Speed limit, etc.
	Radio Template	Country, NIC setting, Beacon setting, TX Power setting, Channel setting, etc
	Auto AP	Extra group except planned AP group
	AP List	AP status display, Edit (Based on single AP unit）
	Hidden SSID	Supported
	Client Limit	Supported
	RF Timing	SSID radio Enable/Disable timer
	Hotspot Analysis	Display AP/SSID status, including signal strength, occupancy rate, etc.
	Device Information	Display CPU, RAM, HD information
Device Monitoring	AP Status	AP status list
	WLAN Status	SSID status
	Client & Traffic Analysis	Top 20 throughput clients, clients application status, application traffic ranking, client density of each application
	Security Status	Attack counting, attack list and click to check attacking client
	Alarm Status	System status display, including server, AP, interface disconnections information
Client Management	Authentication Method	WPA-PSK, WPA-e, MAC authentication, 802.1X, Active Directory integration, Social Login, Web Portal, SMS authentication etc.
	On-line Client Management	On-line client list supported
	Splash Page	Splash pages based on different dimensions (time, location, client behavior, etc.)
	Costom Portal	Manual editing supported
	Re-login Authentication Free	Custom period
	Local Radius Server	Supported
	Local Portal Server	Supported
	AAA Setting	Internal RADIUS server supported Third-party RADIUS server supported
	OS Identification	IOS, OS, Android, Windows, etc.

Category	Feature	Support
Client Management	Device Fingerprint	Supported
	Brand Identification	Main brands supported
	Client Access Strategy	Access strategy based on OS, client device fingerprints, etc.
	Local Map	Floor plan import supported
Map	AP Status Monitoring	Manually add AP and AP parameter edit supported
	Google Map	Supported
	Heat Map	Supported
	WLAN Plan	Supported
	Client Travel Trace	Supported
	Encryption	TKIP/CCMP
Security Defense	Rogue AP Inspection and Counter	Supported
	Dynamic Black List	Auto blacklist for suspicious client and support custom freeze time
	NGAF	Supported
	Binding Strategy	Client and client device one-to-one/ one-to-many binding
	Client Isolation	Supported
	Anti-DDoS	Supported
	Anti-ARP	Supported
	Flow Priority	Supported
Traffic Control	Dynamic QoS	Based on client & client device
	Single-client Traffic Control	Supported
	Dynamic Traffic Control	Supported
	Time Strategy	Supported
	VLAN	1-4096
Network Configuration	DHCP	DHCP server , DHCP client, DHCP Relay, DHCP snooping, Dynamic IP pool, Static IP pool
	Route Configuration	Static routing table, dynamic routing table
	Interface Configuration	Port mirroring, Link aggregation,Trunk/ Access mode
	VPN	Supported
	PPPoE	Supported
	Central Forwarding	CAPWAP supported
Data Forwarding	Local Forwarding	Supported, Mix forwarding supported
	GRE Tunnel	Supported
	IPSEC	Supported
	L2 Forwarding	Supported
	L3 Forwarding	Based on static/dynamic routing table
	NAT	Based on DNAT/SNAT/Port
	NAT Pass Through	Supported

Category	Feature	Support
RF Optimization	Band Steering	Supported
	Seamless Roaming	Support L2/3 roaming, Delay＜10ms
	Auto Channel Adjustment	Supported
	Auto TX Power Adjustment	Supported
	TX Power Manual Adjustment	Supported (Granularity: 1dBm)
	Sticky Client Elimination	Supported
	Spectrum Analysis	Supported
	Notification Center	Notifications based on time, behavior, keywords
Wireless Marketing	Visitor Flow Analytics	Analytics on visitor loyalty, capture rate, repeat visit rates, user engagement, Ads clicks, etc.
	Client Behavior Analysis	Supported
	Application Traffic Report	Exportable daily/weekly/monthly traffic statistics report including application traffic, traffic ranking, etc.
Report Center	Operation Report	Exportable daily/weekly/monthly operation statistics report including hot zone, free zone, failure rates, etc.
	Client Traffic Report	Exportable daily/weekly/monthly client traffic statistics
	Risk Report	Exportable daily/weekly/monthly risk statistics including risk type,time trend, etc.
	Administrator Classification	Supported
System Management	Redundancy	VRRP supported
	Cluster Setting	N+1 Cluster setting supported
	Device Management	Web, CLI, SNMP v1/v2c/v3 supported
	License management	Supported
	Application Signature Database	Supported
	Syslog	Local syslog and remote syslog supported
	Configuration Back-up & Import	Supported
	Upgrade	Supported
	Troubleshooting	Supported