



The **4ipnet WHG303** Secure WLAN Controller is an ideal solution for medium to larger-scale hotspot deployments, such as in hotels, hospitals, convention centers, libraries, airport terminals, and MDUs/MTUs. The WHG303 integrates “secure access control”, “visitor account provisioning”, “flexible accounting and billing”, and “high-speed secure wireless connection” into one box to fulfill the needs demanded by a public wireless network. It also provides advanced functions suitable for larger networks to accommodate more users with multiple APs to cover a wider service area.

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## FEATURES & BENEFITS

### Easy Operation and Reliable Internet Connection

- Y Various broadband deployment options support (T1, DSL, Cable) via static IP, DHCP, PPPoE, and PPTP
- Y On-demand account generation provides user accounts for visitor-based operations
- Y Load balancing and WAN failover functions enhance bandwidth utilization with reliable Internet connection

### Powerful Network Security Capabilities

- Y Standards-based data encryption: WEP, WPA, WPA2, IEEE 802.1X, and IPSec VPN
- Y Secure guest and administrator access using web-based login and administration over SSL
- Y Diverse user authentication methods, including Local and On-demand accounts, POP3, LDAP, RADIUS, Windows Domain, and SIP
- Y Built-in DoS protection keeps malicious hackers from collapsing the network
- Y Site-to-site VPN tunnels across different locations allow hotspot venues to securely connect with one another and share the same account database

### Comprehensive User Management

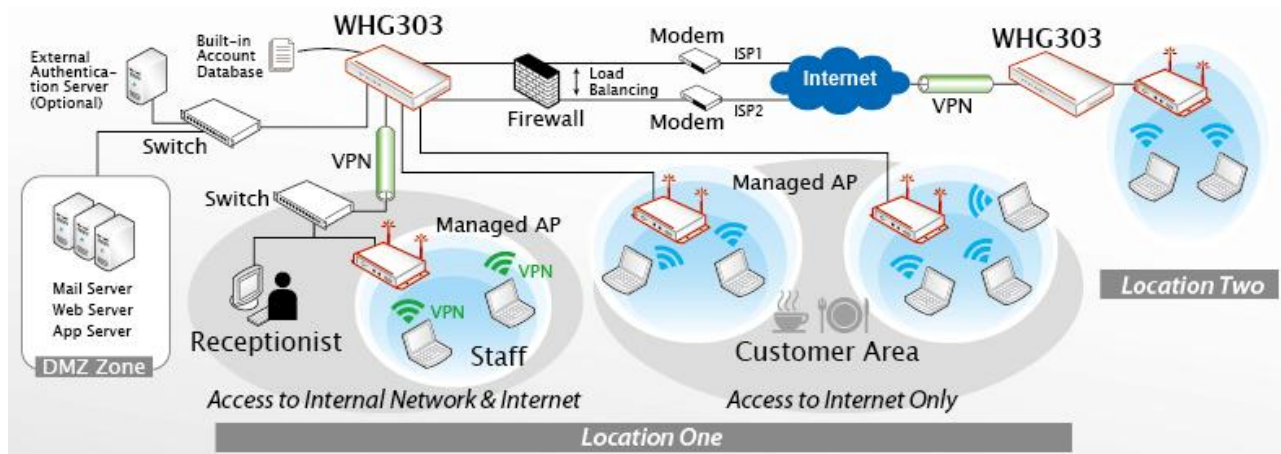
- Y Role-based access control enhances the protection against malicious users
- Y Service Zone function partitions a physical network into up to 9 virtual networks, each with its own definable access control profiles. Hotspot owners can provide different customers and staff with different levels of network services
- Y Individual user bandwidth limit enables flexible traffic control for different scenarios

### Centralized Access Point (AP) Management

- Y Centralized remote control and automatic AP discovery
- Y Management and monitoring of managed APs via web-based administration interface, including AP's system settings, online status, enabling/disabling, reset, and firmware upgrade
- Y Provides system alarms and statistics reports on managed APs

### Flexible Accounting and Billing

- Y Configurable billing profiles allow operators to customize billing plans for On-demand users
- Y Billing report gives a summary of transaction records for on-demand users
- Y Support online payment through external payment gateways, such as Authorize.Net, PayPal, and SecurePay



**Networking**

- † Support NAT or Router mode
- † Support Static IP, DHCP, PPPoE mode on WAN interfaces and PPTP (WAN 1 only)
- † Support NAT:
  - (1) IP/Port destination redirection
  - (2) DMZ server mapping
  - (3) Virtual server mapping
  - (4) H.323 pass-through
- † Built-in with DHCP Server and support DHCP relay
- † Support Walled Garden
- † Provide Walled Garden Ad List to create Ad website links on user login portal page
- † Support MAC address and IP-address pass-through
- † Support HTTP Proxy
- † Support IP Plug and Play (IP PnP)
- † Support configurable static routes
- † Contain built-in hardware-based VPN accelerator
- † Support dual uplinks, outbound load balancing and failover for more reliable Internet connection
- † Support SIP pass-through NAT
- † Support Ethernet connection to external terminal servers

**Security**

- † Support Local VPN (local termination of IPsec tunnels)
- † Support PPTP VPN tunnels
- † Support site-to-site VPN tunnels
- † Support VPN pass-through (IPsec and PPTP)
- † Built-in DoS attack protection

**Service Zones**

- † The network is divided into maximum 9 Service Zones, each defined by a pair of VLAN tag and ESSID
- † Each service zone has its own (1) login portal page (2) authentication options (3) LAN interface IP address (4) DHCP address range
- † Each service zone allows access to the selected groups
- † Each service zone assigns a network policy to each user group

**User Management**

- † Support 2,000 Local accounts and 2,000 On-demand accounts
- † Provide On-demand accounts for visitors
- † Support Local user account roaming
- † Authentication methods supported: Local and On-demand accounts, POP3, LDAP, RADIUS, Windows Domain, and SIP
- † Support Single Sign-On for Windows Domain
- † Allow MAC address and user identity binding for local user authentication
- † Support MAC Access Control List
- † Users can be divided into user groups, each user group has its own network properties, including bandwidth, QoS, accessible service zones, and other privileges
- † Support QoS and WMM traffic types: Voice, Video, Best Effort and Background
- † Each group (role) may get different network policies in different service zones
- † Max concurrent user session (TCP/UDP) limit
- † A setting for user-idle-timeout
- † Configurable user Black List
- † Export/Import local users list to/from a text file

**Accounting and Billing**

- † Provide billing plans for On-demand accounts
- † Support on-line payment with credit card and PayPal account via external payment gateways (Authorize.Net and PayPal)
- † Enable session expiration control for On-demand accounts by time (hour) and data volume (MB)
- † Provide detailed per-user network traffic history for both Local and On-demand user accounts
- † Support RADIUS accounting
- † 4ipnet RADIUS VSA implementation for volume-based session control using RADIUS server
- † Support automatic e-mail to report network traffic history

**System Administration**

- † Web-based management user interface
- † Provide customizable login and logout portal page
- † SSH remote management
- † Remote firmware upgrade
- † NTP time synchronization
- † Menu driven console management interface
- † Utilities to backup and restore the system configuration

**Monitoring and Reporting**

- † Status monitoring of on-line users
- † IP-based monitoring of network devices
- † Uplink (WAN) connection failure alert
- † Support Syslog for diagnosis and troubleshooting
- † User traffic history logging
- † Traffic history report via email to administrator
- † Users' session log can be sent to ftp or Syslog server

**AP Management**

- † Number of managed APs: 20
- † Provide centralized remote management via HTTP
- † Auto discovery for managed APs
- † Enable or disable APs easily via user interface
- † Templates for managed APs
- † Monitor managed AP for the system status, the number of associated clients, and RF information
- † Upgrade managed APs centrally, including bulk upgrade
- † Monitor 3<sup>rd</sup> party, non-integrated APs: 100

**Hardware Specifications**

- † WAN Ports: 2 x 10/100BASE-TX RJ-45
- † LAN Ports: 4 x 10/100BASE-TX RJ-45
- † Console Port: 1 x RS-232 DB9
- † LED Indicators: 1 x Power, 1 x Status, 2 x WAN, 4 x LAN

**Physical and Power**

- † Power Adapter: 100~240 VAC, 50/60 Hz
- † Form Factor: 19" 1U Rack Mount
- † Dimensions (W x D x H): 430 mm x 155 mm x 43 mm
- † Weight: 1.5 kg

**Environment**

- † Operating Temperature: 0 ~ 40 °C
- † Storage Temperature: -20 ~ 65 °C

**Certifications**

- † CE, FCC
- † RoHS compliant