



We Connect the World



WMS-608N/C

Wireless LAN Controller with Built-in AAA Radius Based User Access Control, Support 512 AP and 5000 User License (5 Giga Ethernet Switch Ports)

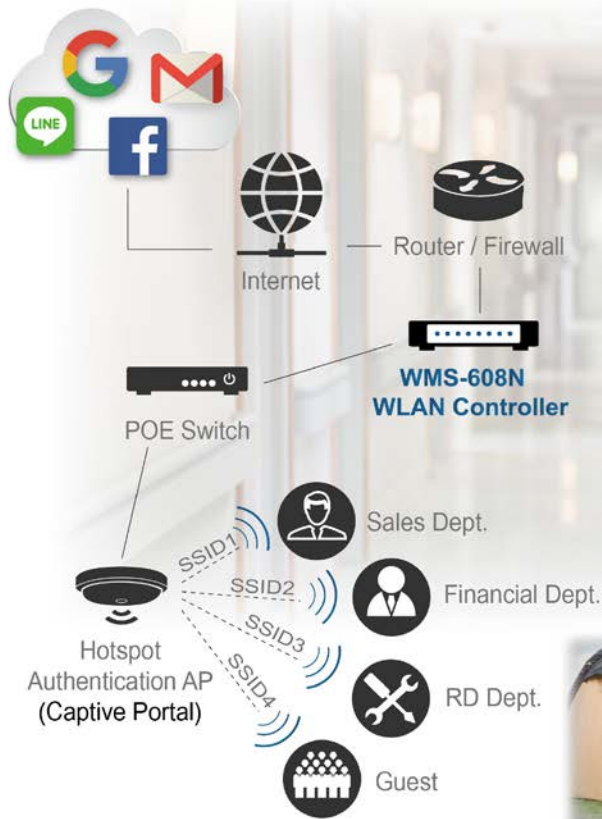
PheeNet WMS-608N/C utilizes New Generation Technology of WLAN Controller for Central AP Management and Wireless & Wired User Access Control Management to fulfill the demands of...

- 1) Increase the network efficiency
- 2) Distributed flow depends on User Authentication Method
- 3) Maximize the numbers of Managed AP

WMS-608N/C is good for Campus, University, Hospital, Hotel, Enterprise application to accomplish the demands of Central AP Management for Distributed Wifi Network Scenario. Meanwhile, WMS-608N/C equips with built-in AAA Radius Based Wireless & Wired User Access Controller System which provides Multiple Authentication Methods and Accounting, like On-Demand and Pre-Generated Ticket User Authentication for temporary users, and by integrating with Hotspot Authentication AP to provide Wifi & Wired User Multiple Customized Captive Portal, Wall Garden, POP3/IMAP, Guest, Local Account, OAuth2.0 (Google, Facebook, Line...) , and bandwidth management.

WMS-608N/C also equips with Hardware VPN to easily setup Peer to Peer VPN to secure connection and High Availability (HA) to guarantee the system operation reliability and no down time. Definitely WMS-608N/C is a best and affordable Wireless LAN Controller if you are going to setup a well-managed Wifi & Wired Network.

Application



WMS-608N Features:

1. Hybrid AP Controller, and User Access Control
2. Central AP Management (Batch setup, Group Setup, AP Auto-Healing, Load Balancing, Authentication Profile applied to AP)
- **VLAN based User Management Profile:

 - Guest
 - OAuth2.0 (Google+, Facebook, Line ID login)
 - POP3/IMAP
 - Local Account
 - Privilege User (IP/MAC)
 - User Bandwidth Management / QoS Rule
 - Captive Portal with Multiple Language
 - Walled Garden (Advertisement link)

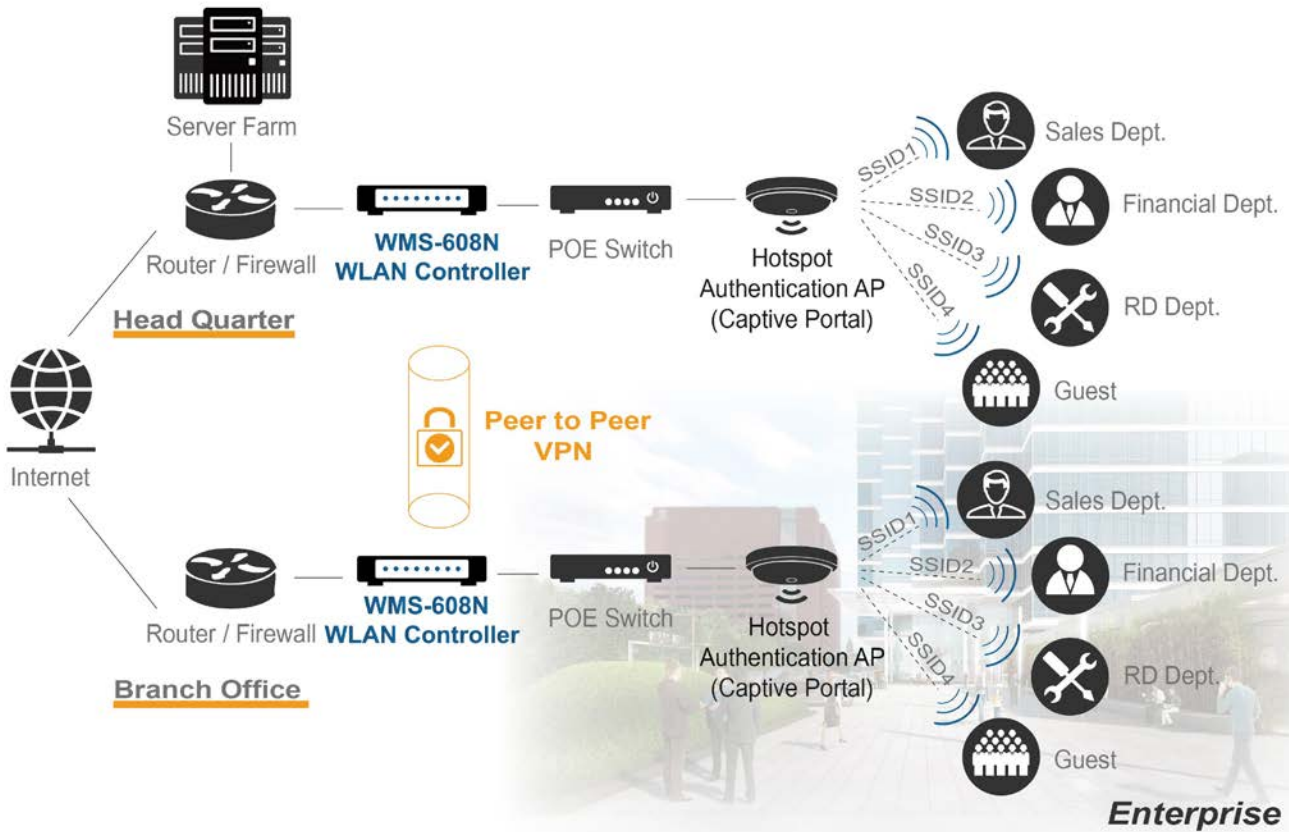
3. Radius Server for User Authentication:

 - On-Demand (W/ QR Code Ticket Printer option)
 - Pre-Generated Ticket
 - Policy: Traffic Volume, Session Time, Expire Time

4. Hardware VPN and High Availability



Camping Site / Hospital / Hotel / Campus



Enterprise

Highlight

Hybrid AP Controller and User Access Control

Deployment Model 1 – WLAN Controller W/ AP Management

Deployment Model 2 – WLAN Controller W/ AP Management and Wired & Wireless User Management

Central AP Management with High Scalability

The great scalability allows the WMS-608N/C to manage up to 512 access points centrally, and the WMS-608N/C also helps administrators to make auto provision without exhaustive configuration for each AP within few minutes.

AP Management Highlight

AP Grouping

AP Load Balancing

Automatic Provisioning

Bulk Firmware Upgrade

Centralized AP Discovery

Detailed AP Status Monitoring

Rogue AP detection

Auto Healing

User Authentication Profile by Multiple VLAN

High Performance

The WMS-608N/C is equipped with 5 Gigabit Ethernet ports, enabling both high bandwidth and flexible deployments. The high performance and scalability ensure the WMS-608N/C provides robust networking for modern networks where one person is equipped with multiple devices due to BYOD trend.

Comprehensive User Access Control Management

The WMS-608N/C offers Multiple Customization Captive Portals with comprehensive User Authentication for User Access Control, for instance, easy dynamic on-demand account creation with QR code, Pre-Generated Ticket and versatile wireless user authentication methods for different application scenarios to provide smooth and secured access. The MAC authentication and customized captive portal adapted to suit the needs of enterprises, hospitality and public venues application.

Detailed User Log & Reports

The WMS-608N/C support detailed User Session Log, Authentication Log, Radius Log, and System Log. Administrator receive log easily and hassle free by email or check USB storage.

Hardware VPN

WMS-608N/C equips with strong Hardware VPN engine to secure Peer to Peer VPN connection which is necessary function for SME, Enterprise, Hotel, and Campus site to site link demand.

High Availability

Features

■ Capacity

1. Managed AP: 512 maximum
2. Account Database: 8000 users
3. User Capacity: 5000 users

■ Centralized AP Management

1. Auto discovery for managed APs
2. AP-Automatic configuration and provisioning in Batch AP Setup Section (Batch AP Setup Item: VLAN Setup, Authentication Profile, Gateway & DNS, Time Server, Management Setup, Wireless Basic Setup, Wireless Advanced Setup, VAP Setup, Upgrade Via TFTP Server, Upgrade Via HTTP URL, Delay Reboot, Reboot Now)
3. AP Group management –maintain a set of setting templates that simplify the task to assign the same setting to multiple APs, including Dynamic Channel Allocation, Maximum User Limitation, MAC Filter Control
4. Auto-Heal between AP to guarantee Wireless Coverage Quality
5. AP Load-Balancing
6. Graphic Display of Map by Group and indicate the AP place on the map
7. Central firmware Upgrade-Select multiple APs and upgrade their firmware at the same time by HTTP and TFTP

■ Authentication Profile

1. Authentication Profile for each VLAN, maximum is 8 VLAN
2. Authentication Profile setup includes
 - A. Authentication Method:
 - Guest – Auto expired guest account (Login time in Minutes, Login type – One time or Multiple time, QoS (Upload/Download Bandwidth)
 - Local User
 - OAuth2.0 (Google, FaceBook, Line)
 - POP3/IMAP
 - B. Captive Portal (Template and Multiple Language define for each column displayed in Captive Portal; Customized Login HTML file in order to add advertisement link)
 - C. Multiple User Login Enable/Disable
 - D. Login Timeout Timer

- E. SSL protected login portal page
 - F. Wall-Garden, Privilege User List
 - G. Bandwidth Control (Total User Upload/Download, Peer User Upload/Download)
3. Authentication Profile can be applied to AP centrally

■ Radius Server & Account Setup for User Authentication

1. WMS-608N/C works as a Radius Server
2. On-demand Package Setup, maximum 9 policy including Traffic Volume MB, Session Time Minutes, Expire Time, Expiration (Unlimited, Per Day, Until Specific Time)
3. On-Demand Manually Create Account based on Policy, Search Account
4. On-Demand account can be generated via External Intelligent Device Server (PSS-120) and Ticket Printer (QR Code available)
5. Pre-Generated Ticket database setup, maximum 9 policy including Traffic Volume MB, Session Time Minutes, Expire Time, Expiration (Unlimited, Per Day, Until Specific Time)
6. User's History Log (Log info: User Name, Login Time, Logout Time, IP, MAC, Input Bytes, Output Bytes, AP IP, AP MAC and Status) with Intelligent Database Archive Search Tool
7. Real-Time User Online Log (Log info: User Name, Login Time, Session Time, IP, MAC, Input Bytes, Output Bytes, AP IP, AP MAC) with Intelligent Database Archive Search Tool
8. Redirect LDAP / AD Authentication to Remote LDAP / Windows AD Server
9. Radius Account Database Maintenance and Manually clear the database if needed (Expiration of Account, Pre-Generated Account, All Account)

■ Log, Report & Notification

1. User's Authentication Log with Intelligent Database Archive Search Tool (Log Info: Event Time, Auth Type, AP IP, VLAN ID, User Name, User IP, User Mac, Event)
2. User's Session Log with Intelligent Database Archive Search Tool (Log Info: Event Time, Auth Type, AP IP, VLAN ID, User Name, Protocol, Source IP, Destination IP, Source Port, Destination Port, Source MAC)
3. History Log & Online Log for On-Demand & Pre-Generated Ticket Users
4. Local System Log and Remote System Log with Intelligent Database Archive Search Tool for diagnosing and troubleshooting
5. Notification of Log Size (10~512MB) by Email service automatically; manually clean the Log to release the Log Size in Log maintenance section
6. Export complete Log file (txt) to external USB storage
7. Backup Setting (config.bin) to external USB Storage; Load Setting from external USB Storage

■ QoS

1. Bandwidth Control (per user or total upload and download bandwidth)
2. DiffServ marking
3. AP Load Balancing

■ System Administration

1. Multi-level administration roles (will be added soon)
2. Ping Watchdog
3. Auto Reboot (Daily, Week, Month)
4. Complete and Easy to understand Log (please refer above Log & Notification Section)
5. USB Interface for Log Export, and Back / Load the setting between USB and WMS-608N/C
6. SNMP v1, v2c, v3
7. SNMP Traps to a list of IP Addresses
8. Support MIB-II
9. NTP Time Synchronization
10. Administrative Access : HTTP / HTTPS
11. CLI access (Remote Management) via Telnet and SSH
12. Remote firmware upgrade (via the Web)
13. High Availability to guarantee the system operation continually

■ **Recommend Hotspot Authentication AP (Firmware V5.0) to work with**

WAPD-102AC, IEEE802.11ac High Power Ceiling Hotspot Authentication AP W/ 802.3at POE

WLO-12400N-N2: IEEE802.11n 2.4GHz 2T2R 300Mbps MIMO Wireless Outdoor Bridge / AP

(800mW, Built-in 10dBi Sector Directional Antenna & 2 x N-Type connector (Antenna is Software switchable), 1 x POE IN and 1 x POE Pass-Through), Heater Inside

Specification

Hardware Specifications	
Base Platform	MTK7621
CPU Clock Speed	880 MHz
USB Port	1 for Database Storage
Reset Switch Built-in	Push-button momentary contact switch
Ethernet Configuration	5 x 10/100/1000 BASE-TX auto-negotiation Ethernet ports (RJ-45 connector)
RAM	On board : 256Mbytes
Flash	On board : 16 Mbytes
Built-In LED Indicators	1 * Power ; 1 * Status, 1 * Storage
Environmental & Mechanical Characteristics	
Operating Temperature	0 °C ~ 55 °C
Storage Temperature	-20 °C ~ 75 °C

Operating Humidity	10% to 80% Non-Condensing
Storage Humidity	5% to 90% Non-Condensing
Power Supply	Internal Power
Dimensions	430 x 275 x 50 (mm) (Length x Width x Height)
Weight	2 Kg
Form Factor	19" Rack-Mount
Certifications	CE

PheeNet Technology Corp.

Rm. 3, 20F, NO. 79, Hsin Tai Wu Rd., Sec. 1,
Hsi-Chih, Taipei, Taiwan
<http://www.pheenet.com>
TEL: 886-2-26982011 FAX: 886-2-26981421

