4ipnet®

Release Notes

4ipnet WHG401 Release 1.21.00
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Document Version Control

Date	Version No.	Remark
2009/09/15	1.00	Firmware version 1.21.00

Table of Contents

1. Introduction

The **4ipnet WHG401 Secure WLAN Controller** in Gigabit Ethernet with built-in 4,000 local accounts, 3,000 on-demand accounts, is an ideal security solution for medium WLAN deployments, including enterprises, campuses, hotels, airport terminals, and MDUs/ MTUs. The **WHG401** integrates **"secure access control", "visitor account provisioning", "flexible accounting and billing",** and **"centralized WLAN management"** into one box to provide simplified manageability and instant mobility. With more powerful hardware, **WHG401** is capable of centrally managing 190 access points (150 x EAP700 + 40 x other 4ipnet single radio AP) to cover a wider service area in a larger network.

FEATURES & BENEFITS

Simplified Deployment and Reliable Internet Connection
- Gigabit Ethernet to meet higher data rate demands of larger networks.
- Easy to deploy, highly scalable platform allows overlay with existing wired/wireless infrastructure without disruption.
- Load balancing and WAN failover enhance bandwidth utilization and provide more reliable Internet connection.

Powerful Network Security Capabilities
- Standards-based data encryption: WEP, WPA, WPA2, IEEE 802.1X, and IPSec VPN.
- Secure guest and administrator access using web-based login and administration over SSL.
- Diverse user authentication methods, including built-in Local and On-demand database; supports external authentication servers including POP3, LDAP, RADIUS, Windows Domain, and SIP registrar.
- Built-in DoS protection keeps malicious hackers from collapsing the network.
- Site-to-site VPN tunnels allow branch offices to securely connect with one another and share the same account database.

Comprehensive Access Control and User Management
- Role-based access control and policy enforcement offer management of privileges for different user groups.
- On-demand account generation provides secure and managed user accounts to visitors.
- Service Zone function partitions a physical network into up to 9 virtual networks, each with its own definable access control and group policy profiles. Allows hotspot owners to provide various levels of customized services.
- Individual user bandwidth limit enables flexible traffic control for different scenarios.

Centralized Access Point (AP) Management
- Centralized remote control and automatic AP discovery.
- Management and monitoring of managed APs via web-based administration interface, including AP's system settings, online status, enabling/disabling, reset, and firmware upgrade.
- Periodically monitors APs and notifies the administrator of problematic APs.

Flexible Accounting and Billing
- Configurable billing profiles allow operators to customize billing plans for on-demand users.
- Support online payment with credit card through Authorize.net and PayPal.

PMS Integration and Port-Mapping for Hotel Applications
- By interfacing the 3rd party middleware - NetRetriever, the Controller is able to post billing information to multiple kinds of hotel PMSs. With PMS integration; a guest will receive a single room bill covering Internet access charges.
- When coupling with VLAN switches and DSLAM devices, the Controller can use its Port Mapping feature to tell the location of each client and therefore provide differentiated services.

2. New Features & Resolved Issues

This firmware release has added and resolved the following issues:

1. On-demand authentication apply group per user.
2. On-demand account batch creation.
3. Enlarge MAX_SLOG to 1024K.
4. Debug Kernel enhancement
5. DoS parameters enhancement

3. Installation Procedures

The complete system installation can be configured via the web-based UI. Please refer to the **Quick Installation Guide (**stated in the Related Documents [1]) for the details

4. Upgrade Procedures

Please use the utility "Firmware Upgrade" in the "Utilities" function to upgrade firmware from version 1.10.00 to version 1.21.00. In addition, it is recommended to back up all necessary settings before the upgrade.

System Firmware Upgrade	
Current Version	1.10.00
File Name	[ ] 瀏覽....

Note: Due to database incompatibility, it is required to reset to factory default after successful firmware upgrade, *if system is upgraded from 1.10.00*.

Backup System Settings
Backup

Restore System Settings	
File Name	[ ] Browse...
Restore	

Reset to the Factory Default
Reset

5. Related Documents

[1] **4ipnet WHG401Quick Installation Guide (QIG) 1.21.00**

[2] **4ipnet WHG401 User's Manual 1.21.00**

6. Remarks

● Please contact support@4ipnet.com for the technical support.