
CERIO
Amplify your Wireless Network

CERIO

Introduction to **IW-100GX-N**

CenOS 5.0 Software Core

eXtreme Power 11n 2.4GHz 1x1
In Wall PoE Access Point (800mW)

Product Overview

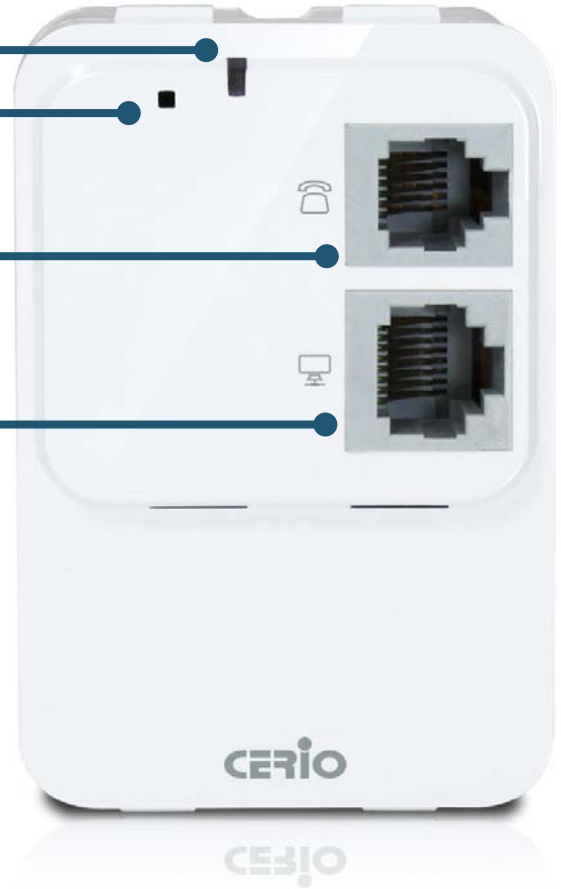
- 800mW at 2.4Ghz eXtreme High Power Access Point
- Supports 5 Operation Modes (CenOS 5.0)
- 1x1 Built-in 2.4Ghz Omni-Directional Antenna
- Two 10/100Mbps Fast Ethernet RJ45 Ports
- Two RJ-11 Phone Line Ports (In / Out)
- Supports IEEE802.3af Power over Ethernet
- Integrates a long-range power amplifier and high sensitivity receiver to deliver unmatched reliability and performance at large coverage application
- Includes two Faceplates for US / EU Mounting standards
- Includes mounting bracket for Ceiling / Wall / Desktop

Advanced Features

- Supports 802.11n/11g/11b wireless standards
- Operation modes include: Router Mode, AP with WDS Mode, Control Access Point Mode, Client Bridge Mode, and WISP Mode
- Can broadcast up to 8 SSIDs, all of which support VLAN tagging
- Control Access Point mode can centrally manage up to 16 AP devices without the need for an additional AP Controller
- Supports Captive Portal Authentication for easy client login
- Supports OAuth2.0 for user login through Facebook/Google+
- Supports Ping Watchdog feature, the OS smartly reboots the system before a major crash.
- LED Control Supported for hotel installation

Hardware Overview

Front Panel



Rear Panel

Mounting Design

Main In-Wall Unit with EU-Type Faceplate

For Europe & China Standards

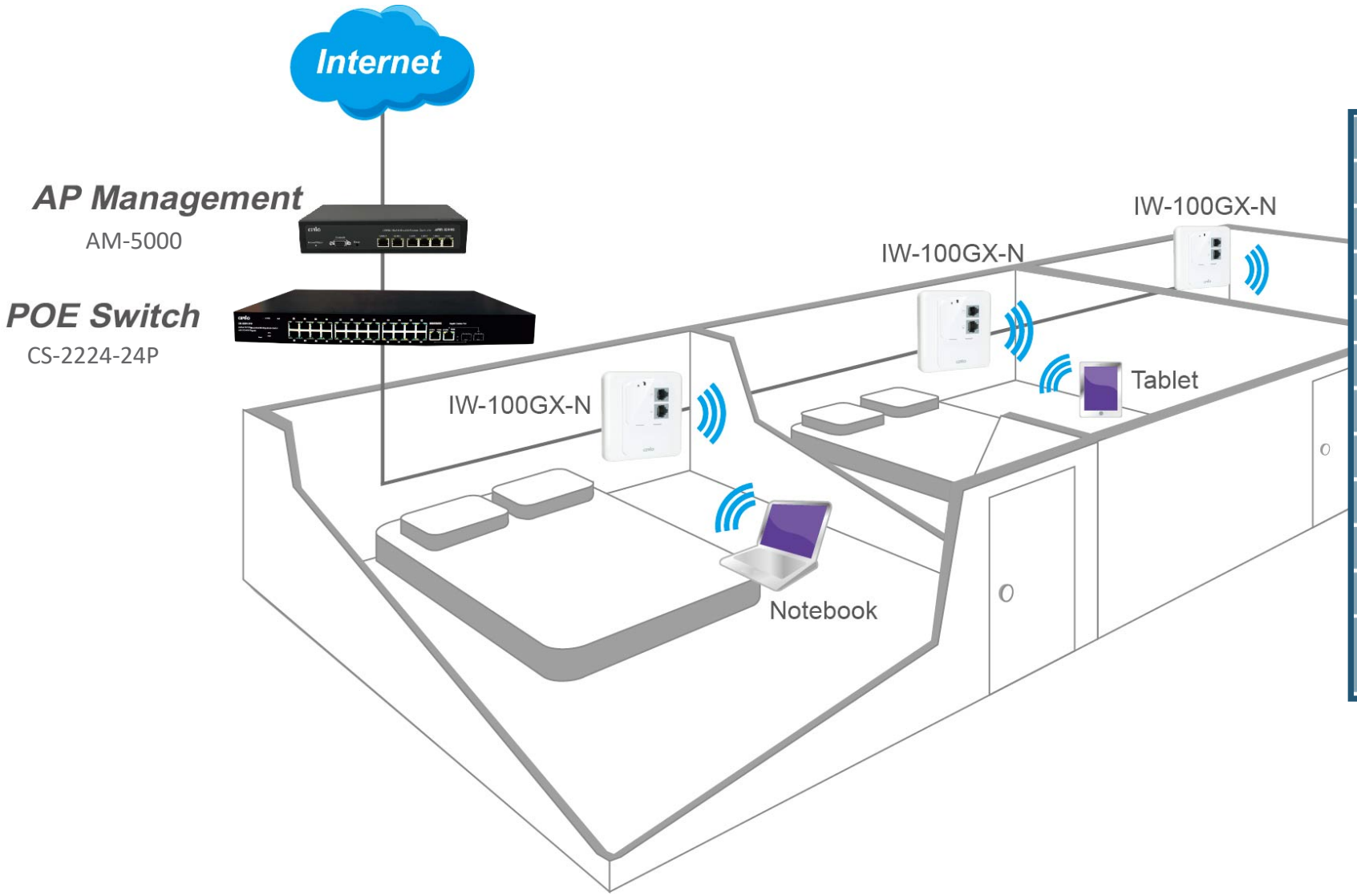
Main In-Wall Unit with US-Type Faceplate

For U.S.A & Japan Standards

Bundled Mounting Bracket

Supports Ceiling / Wall / Desktop

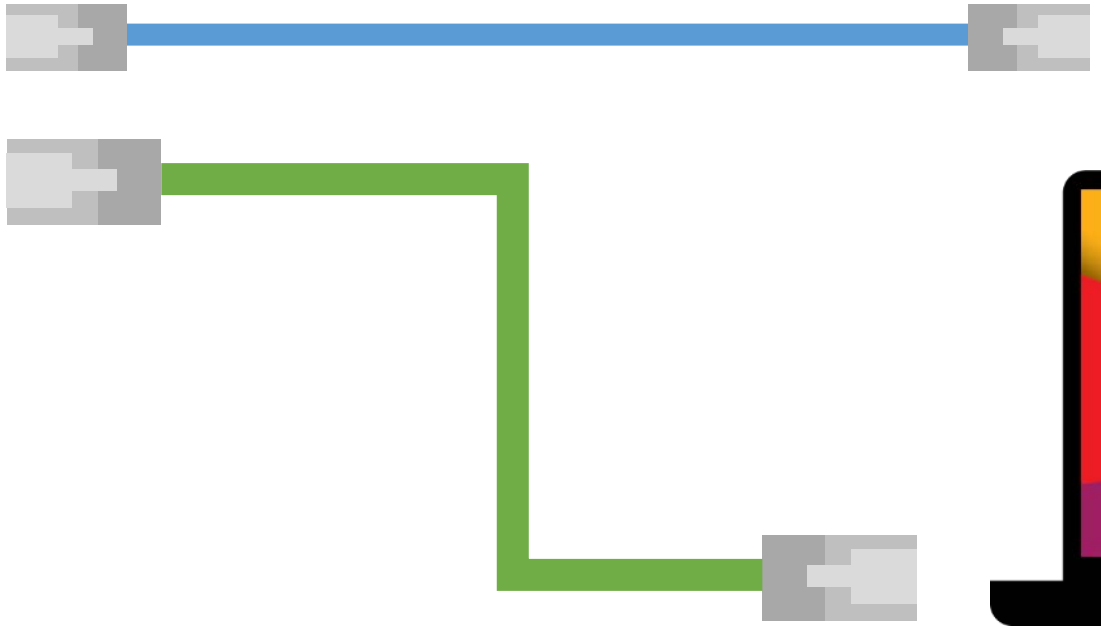
Hotel Application



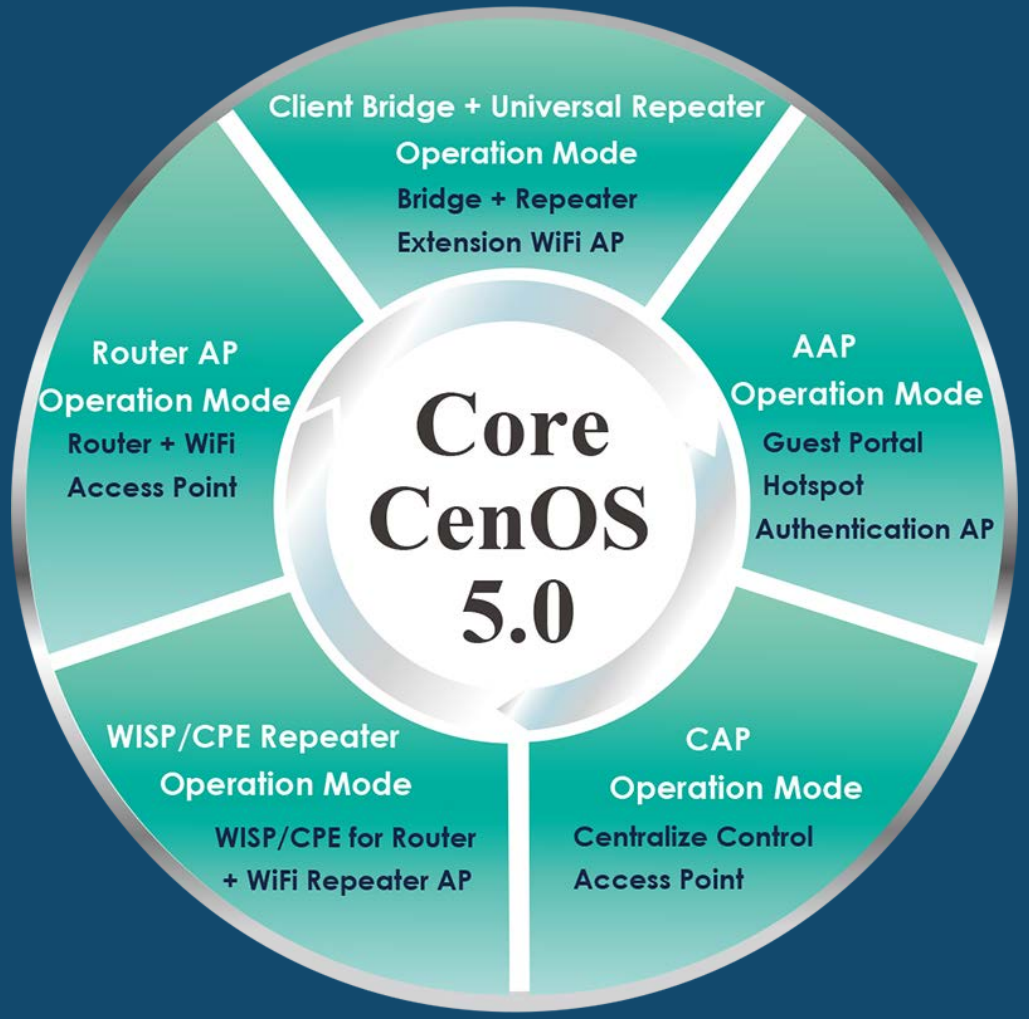
Output Power	800mW
Wi-Fi Standards	IEEE 802.11n b/g
Multiple-ESSID	x8
Tag VLAN	Supports 4096 VLAN Tags per SSID
IAPP Roaming	✓
Antenna	1x1 Built-in Omnidirectional Antenna
Management	CAP Mode, AM-5000
Ethernet Configuration	RJ-45 Ethernet Port x 2
Telephone Configuration	RJ-11 Line-In x 1 RJ-11 Line-Out x1
Input Power Requirement	803.3af 48V PoE Ethernet Interface Power In
Power Supply	PoE Device (Optional Purchase)
Form Factor	In Wall Installation: US Type and EU Type Faceplate Supports Desktop Stand & Wall/Ceiling Mounting

Hardware Design

IW-100GX-N includes 2 RJ11 ports for Phone Line and 2 RJ45 Ports for POE-IN and Ethernet connection. This hardware design makes this in wall access point perfect for environments such as hotels and luxury homes.



Software Overview

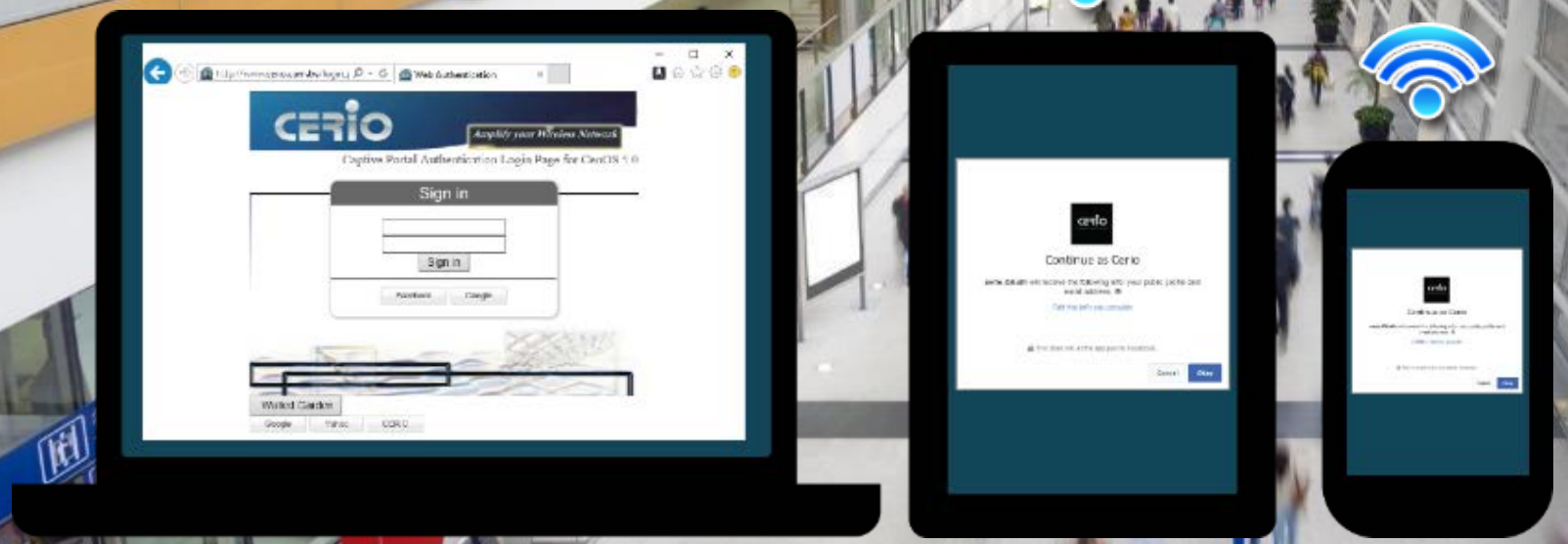


Only Cerio's special model supports CAP / Router mode

CenOS 5.0

Captive Portal Authentication

Captive Portal Authentication conveniently allows wireless clients to access the network through a customized web login portal.



Local Account Login

Facebook Login

Administrators can deploy a customized Captive Portal with the following login methods

1. Guest Login
2. Local Account Login
3. OAuth2.0 Login (Facebook/Google/etc.)

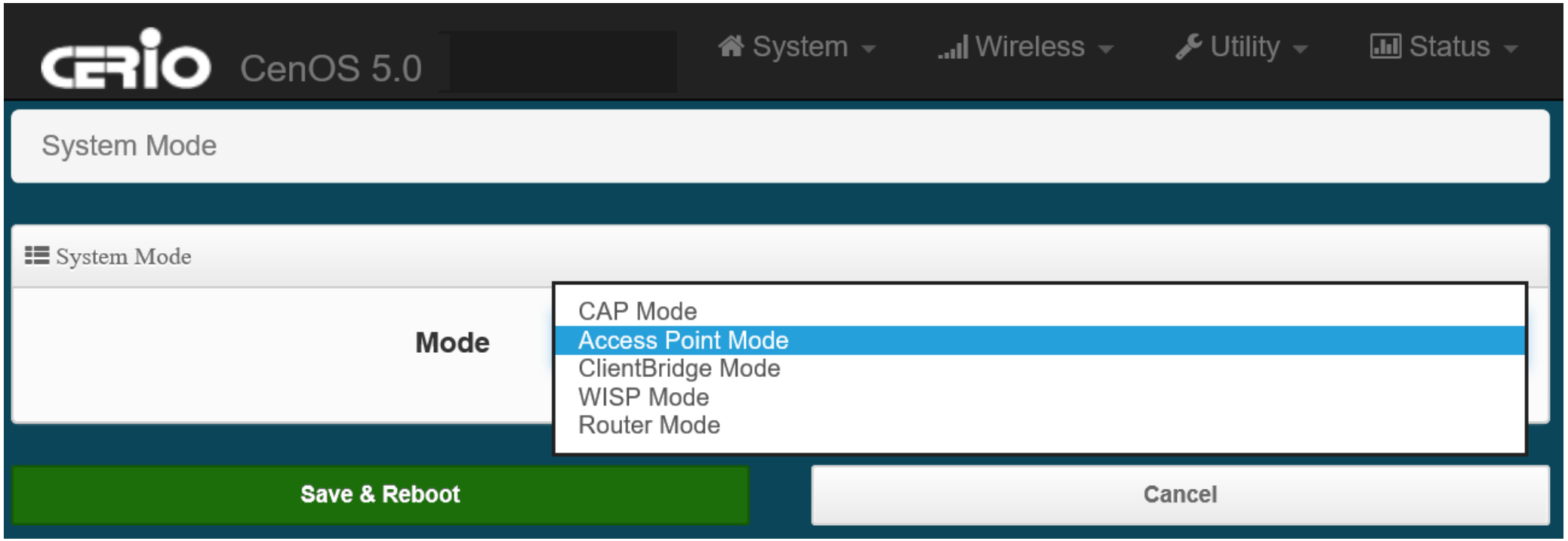
*Router Mode does **NOT support** Captive Portal Login*

Integrated AP Management

Captive Portal Authentication

Operation Modes

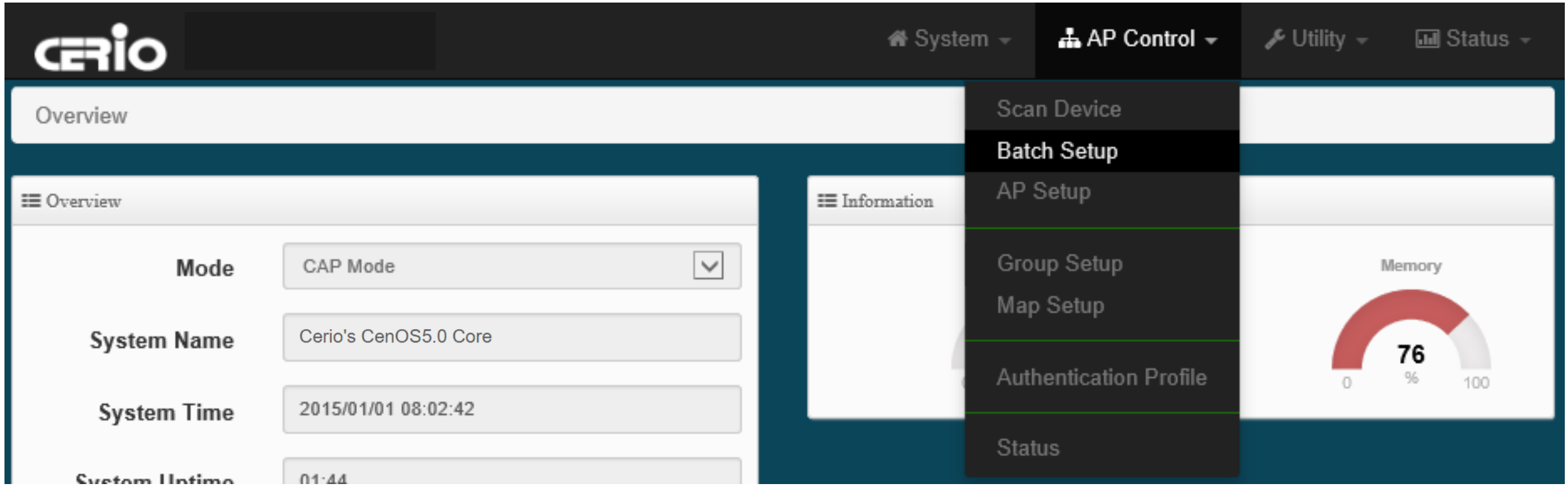
IW-100GX-N supports five different Operation Modes: Control Access Point, Access Point Mode with WDS, Client Bridge + Repeater Mode, WISP/CPE Repeater AP Mode, and Router Mode



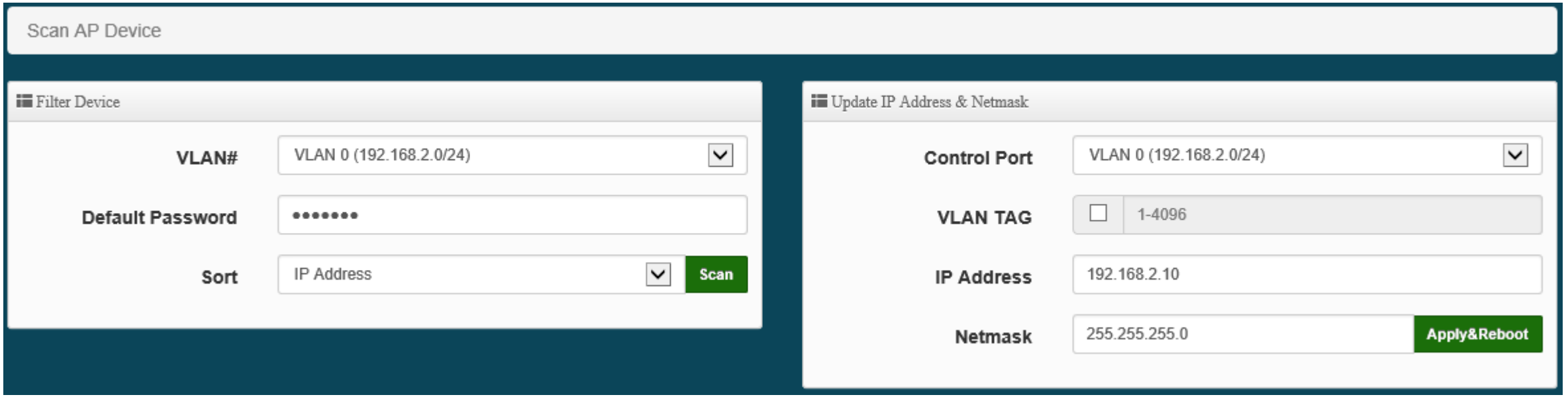
*Notice: Router Mode does **NOT support** Client Authentication*

Control Access Point

Control Access Point (CAP) Mode's converts the device into a centralized AP management controller. When IW-100GX-N is in CAP Mode, it can centrally manage up to **16 AP devices.**

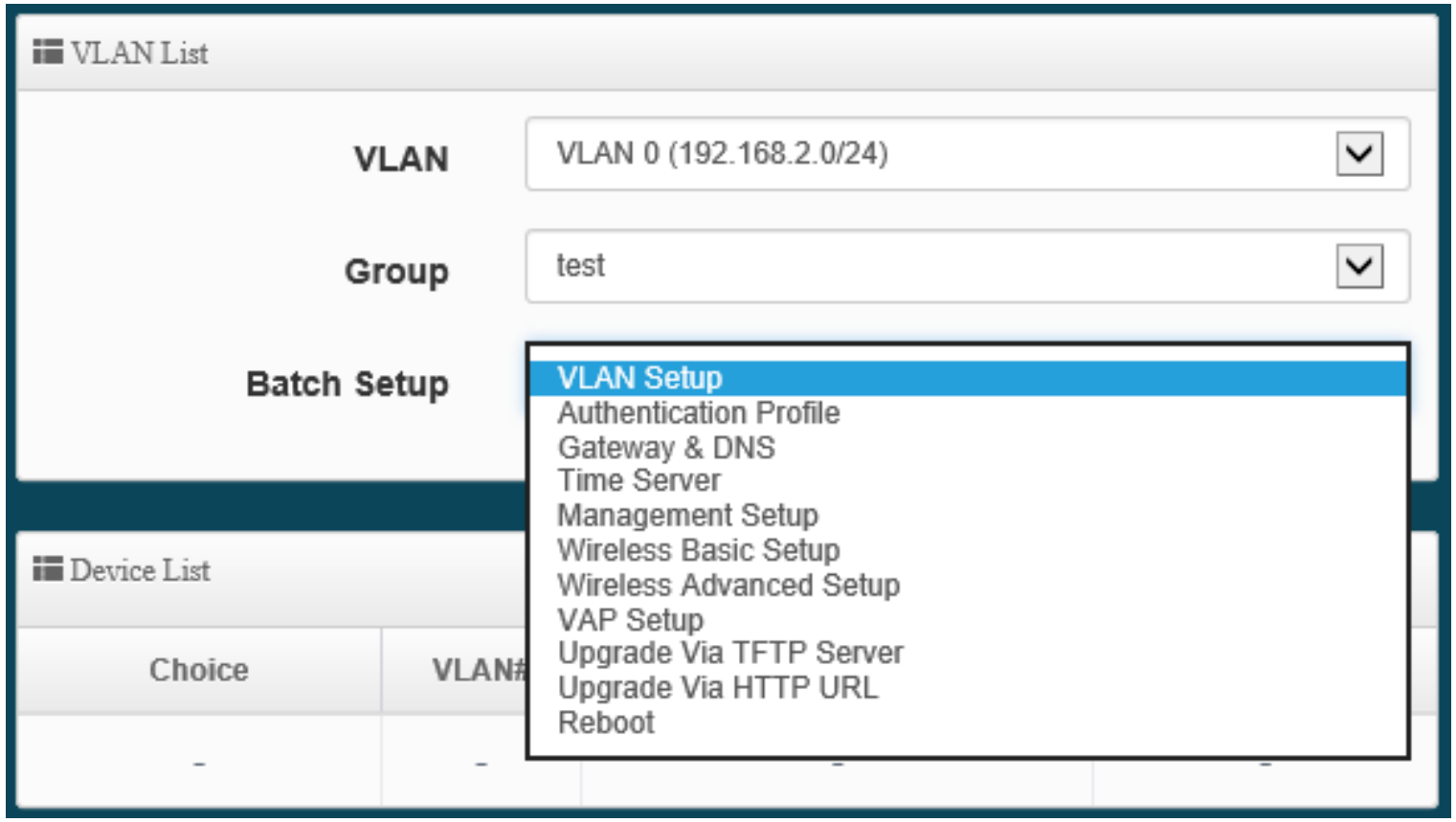


Scan and Import



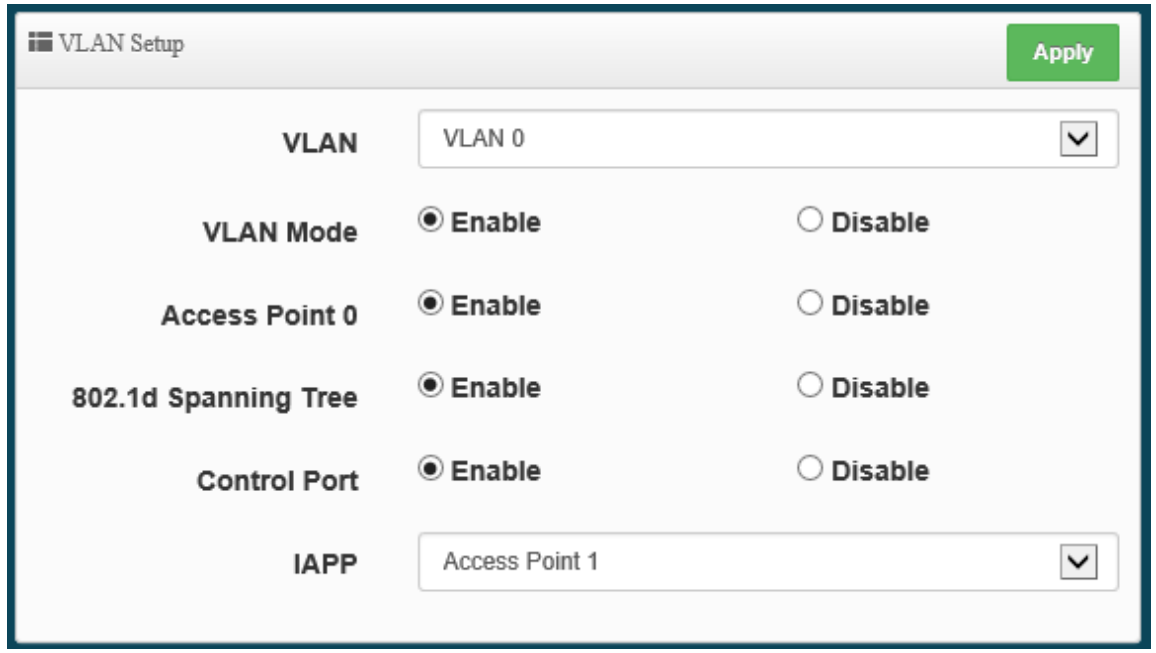
CAP Mode allows administrators to scan for AP devices within their virtual LAN and import them into the management database. Once imported, administrators can make quick changes such as changing IP addresses for organization and easy management

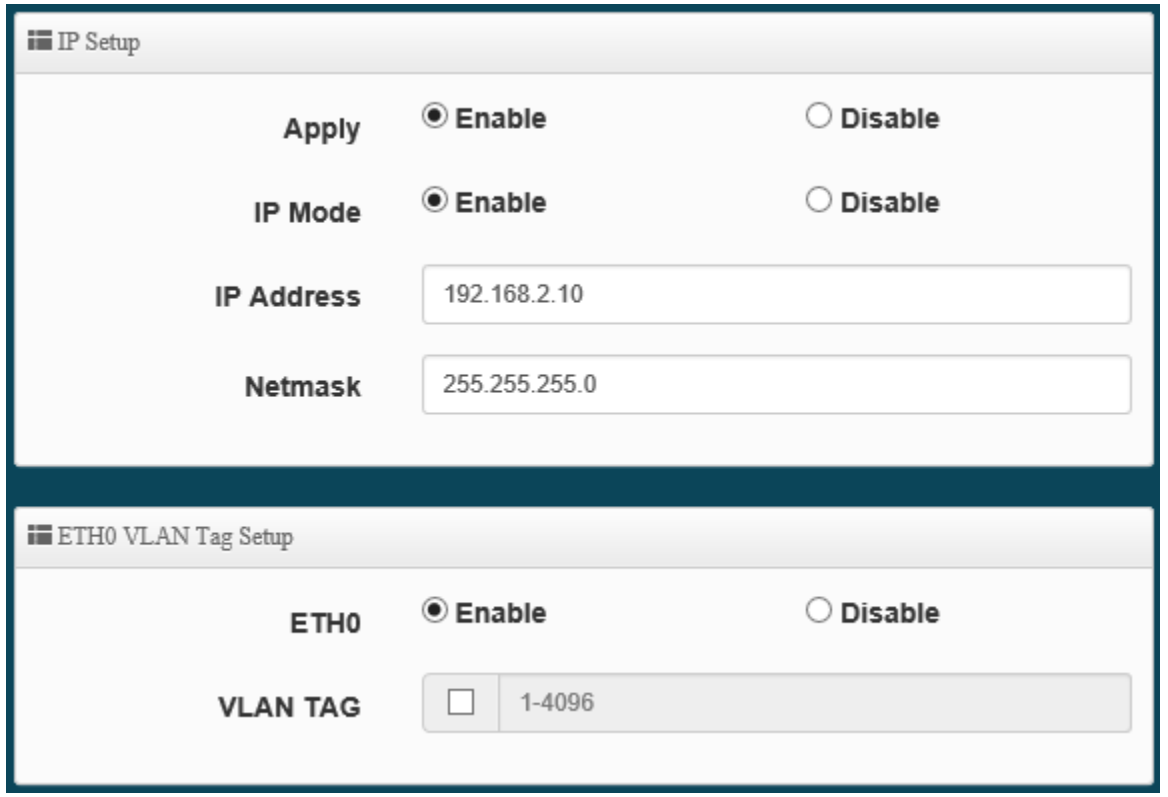
Batch Setup



CAP Mode's control function supports centralized configuration of managed APs. This allows administrators to make convenient batch changes to the network of AP devices from one centralized location. This main function of CAP mode can save time and cost by reducing servicing and installation time.

Batch Setup

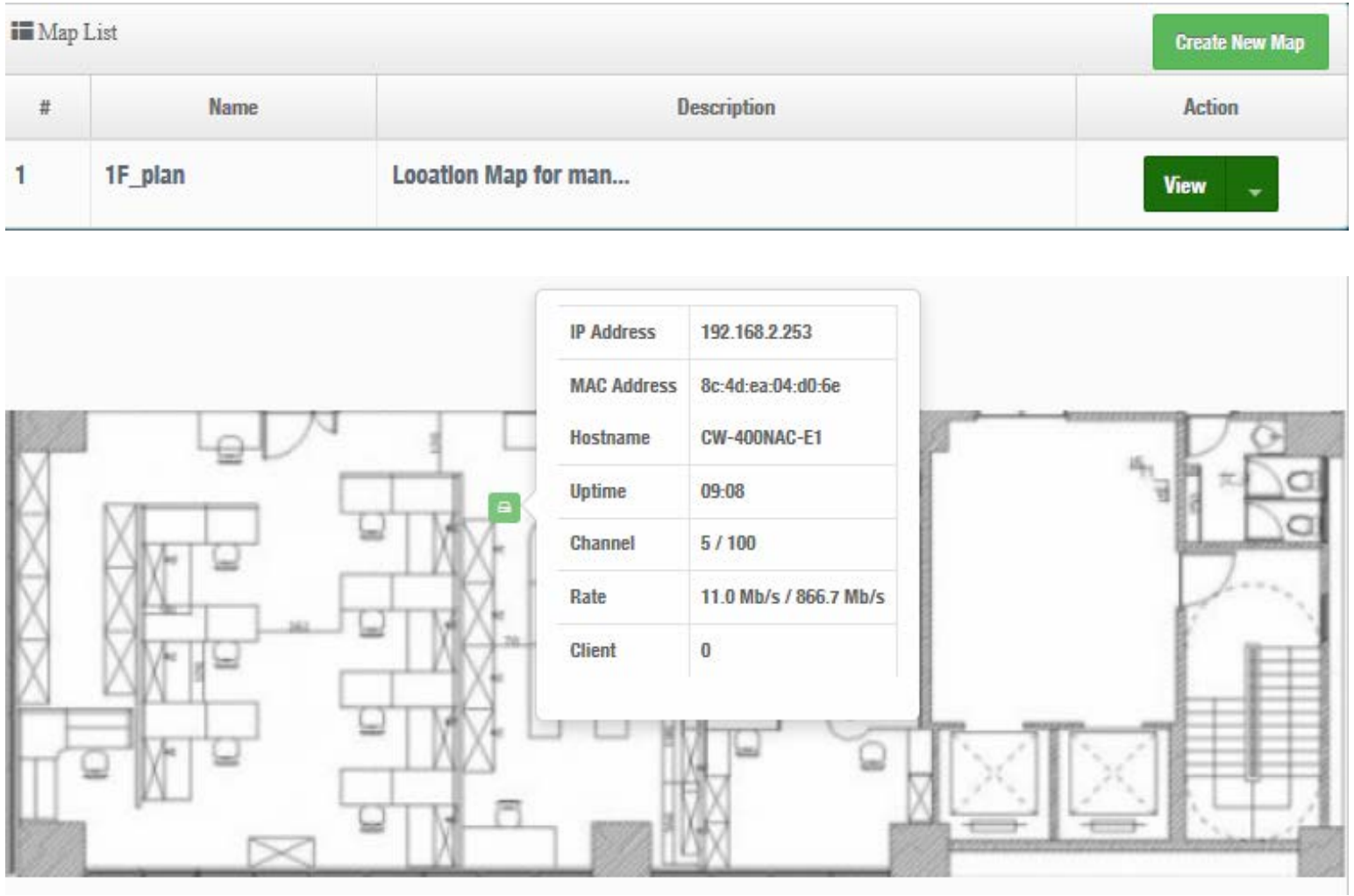




Administrators can enable VLAN Mode, Spanning tree, Control Port capabilities, IAPP Roaming, change IP settings and setup VLAN tag for batches of access points. These changes can be implemented differently for each VLAN, allowing for both centralized and organized control.

Map Setup

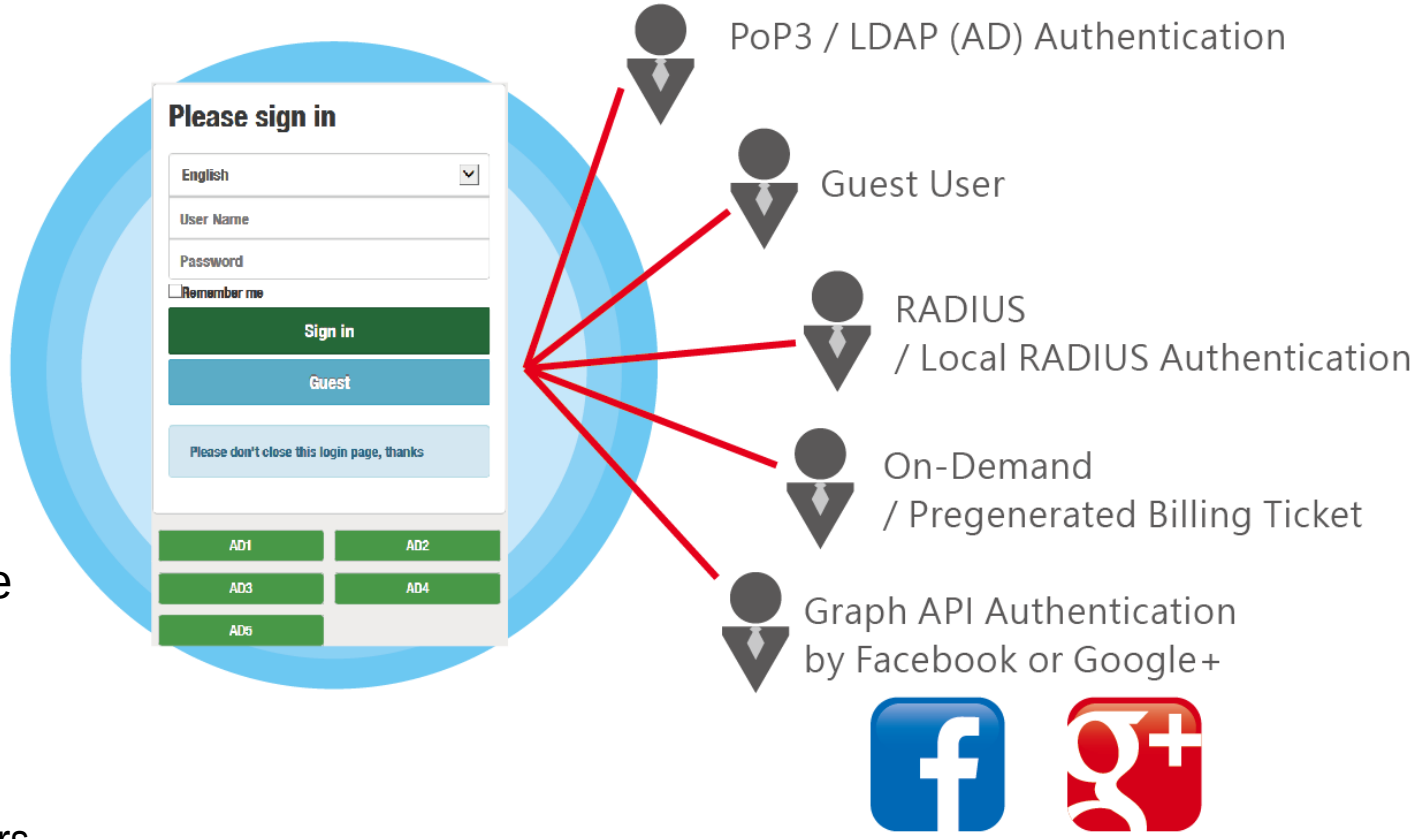
CAP Mode also supports Map Setup function for organizing your AP network. Administrators can create maps by uploading floor plan URLs and dragging APs to the correct location. Once complete, administrators can monitor AP statuses such as uptime, data rates, and connected clients



Authentication AP

CenOS 5.0 supports Authentication Access Point Mode for versatile AP deployment. Administrators can choose from many authentication options to best suit their network needs.

This enables convenient access to the wireless network for public clients, as well as improved management and organization for network administrators

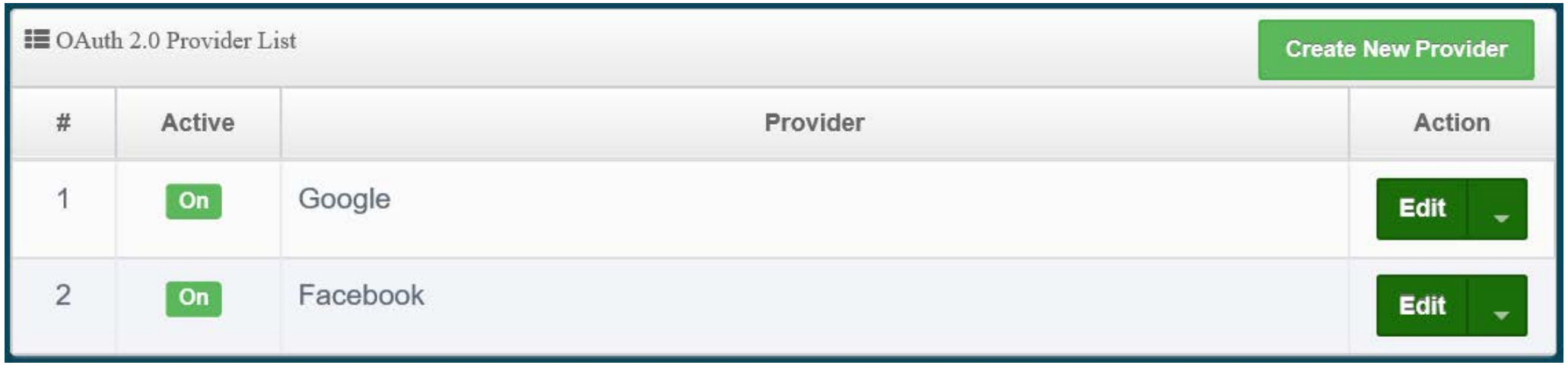


*Notice: Router Mode does **NOT support** Client Authentication*

OAuth2.0 Login

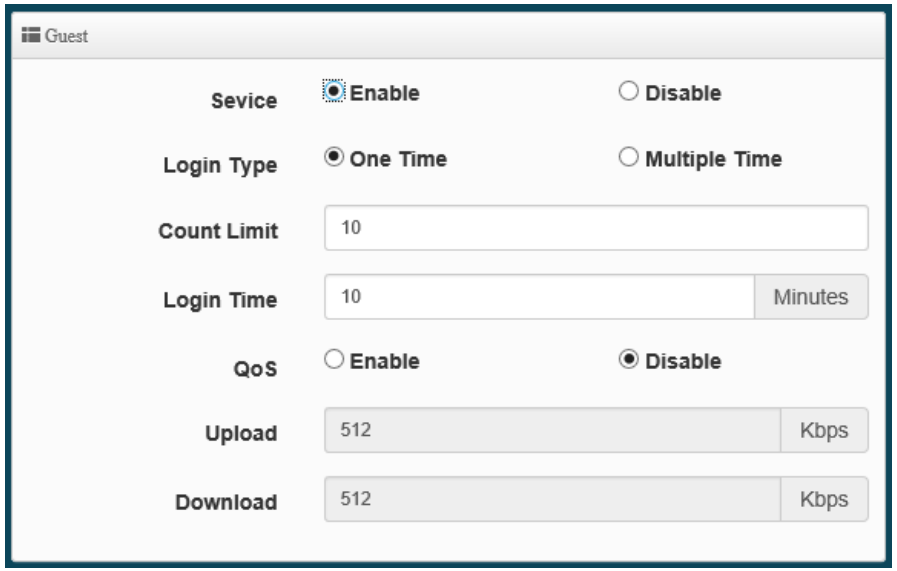
CenOS 5.0 supports multiple methods of authentication for user management, security and convenience.

OAuth2.0 : Allows devices to use third-party credentials such as Facebook and Google+ for user authentication. This provides login convenience for public clients and also allows administrators to collect data through Facebook / Google analytics.

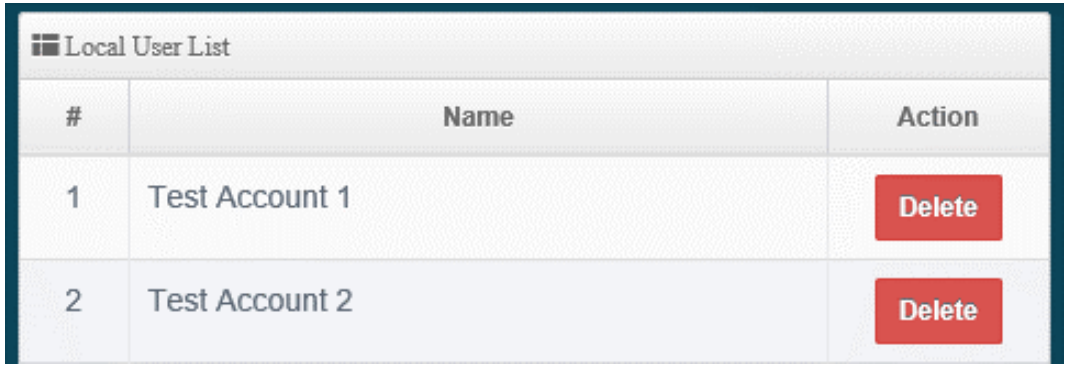


Authentication

Guest Login : Provides limited Wifi connection to clients to an open network. Limitations can be put in place to manage client limits, connection time, and control bandwidth



Local User: Provides fixed authentication user accounts for controlled client login and data management. Administrators can track Local Account usage, connection time, etc. CenOS 5.0 supports up to 10 Local User accounts



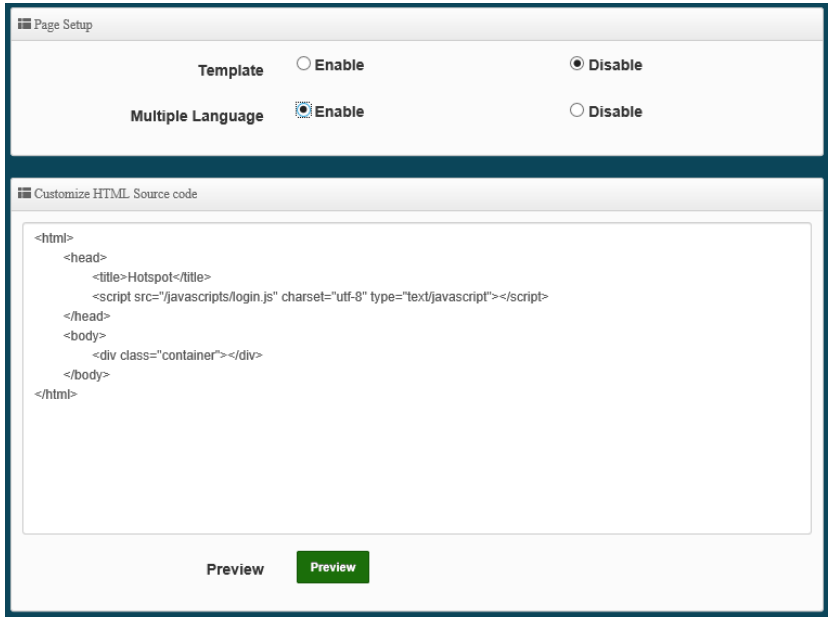
Customized Login Page

Administrators can create a customized Login Page which can become a platform for:

(1.) Promotions **(2.)** Brand Exposure **(3.)** Advertisements **(4.)** Platform for providing Information

This customized Captive Portal supports login through **1.** Guest Users **2.** Local Accounts **3.** Facebook, Google+, etc using OAuth2.0.

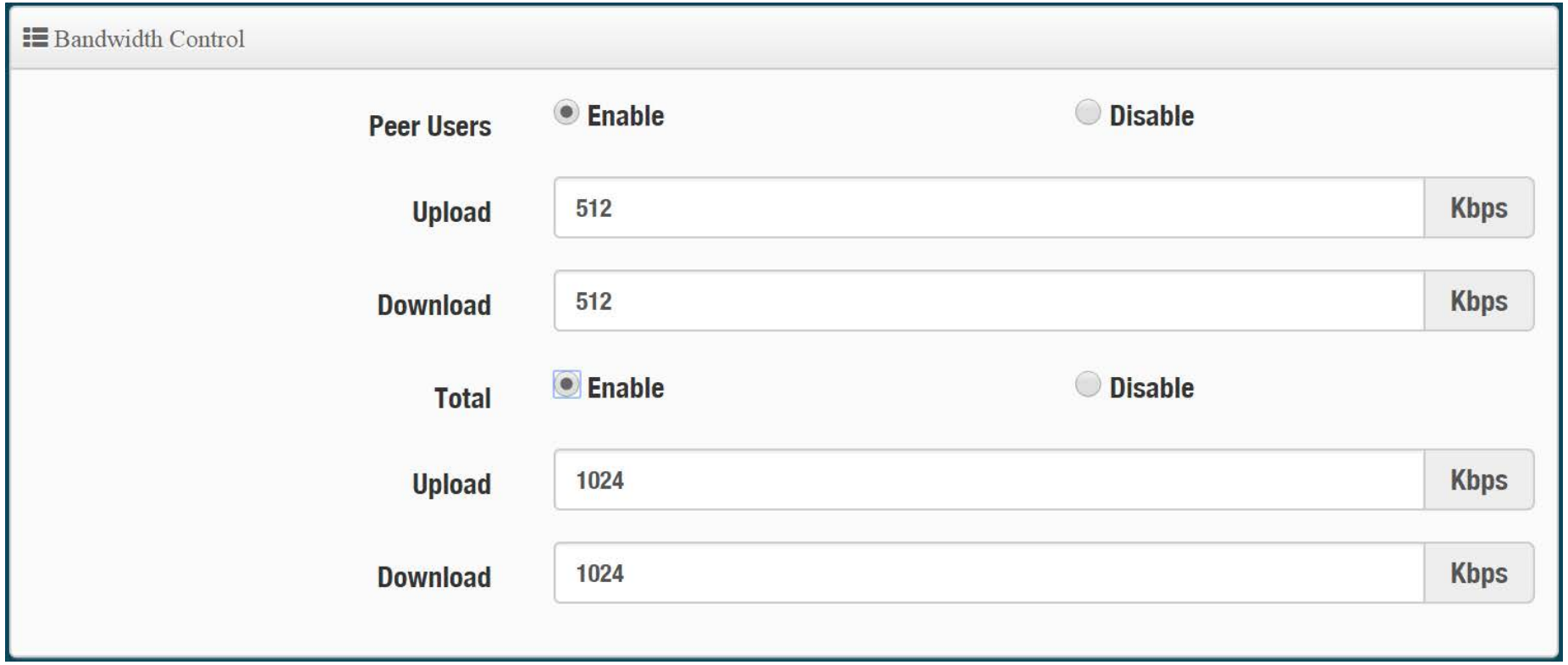
Customized Login Page



Customize through HTML Code

Bandwidth Control

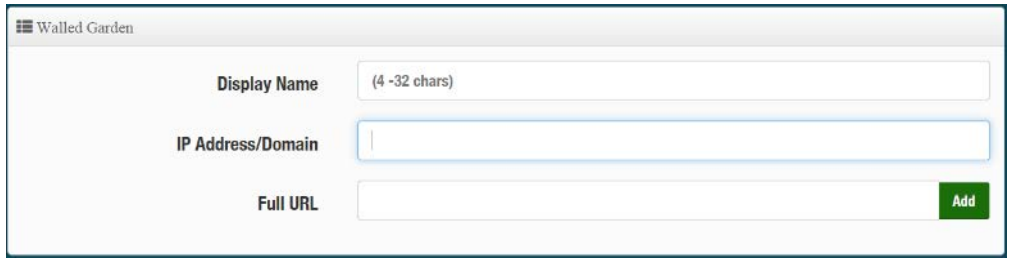
Bandwidth Control of connected clients allows administrators to control individual user upload and download speeds, as well as set a maximum limit on the total amount of bandwidth that can be used at a single time.



Walled Garden

Modes Walled Garden function allows administrators to create a browsing environment that controls user access and accessible information. This function is ideal for directing users to specific parts of the Web such as;

1. Paid Content
2. Self-Promotions
3. Free access to specific websites
4. Advertisement web pages



Enabled Walled Garden Websites

Virtual LANs & SSIDs

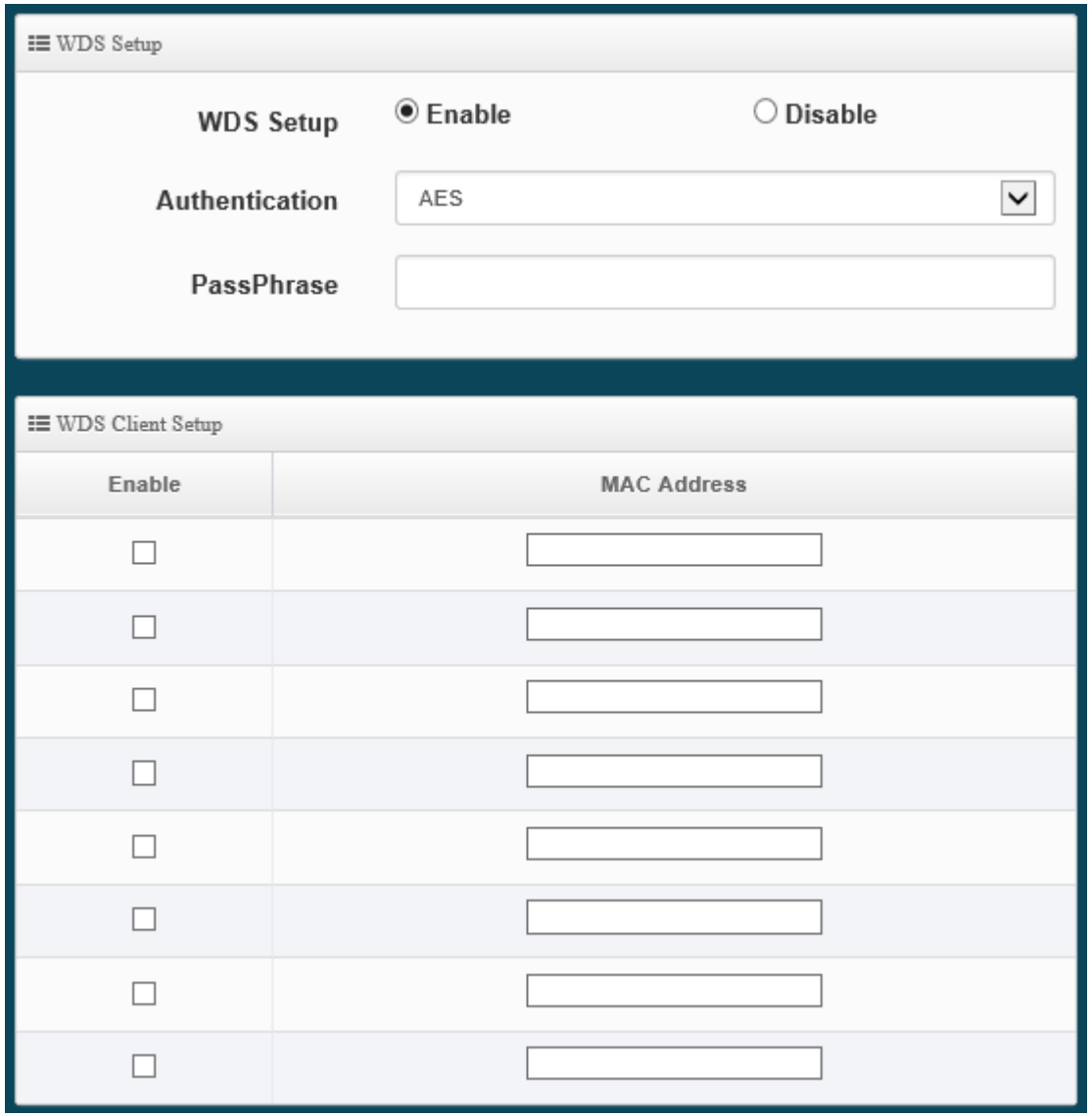
IW-100GX-N's design supports a total of 8 Virtual LANs (VLAN) and 8 SSIDs.

★ Supports 8 VLANs

Each VLAN supports 1 SSIDs ★

IW-100GX-N supports up to **4096** Tags. This is a crucial feature that ensures successful directing of packet traffic for VLANs that span across multiple switches.

WDS Support

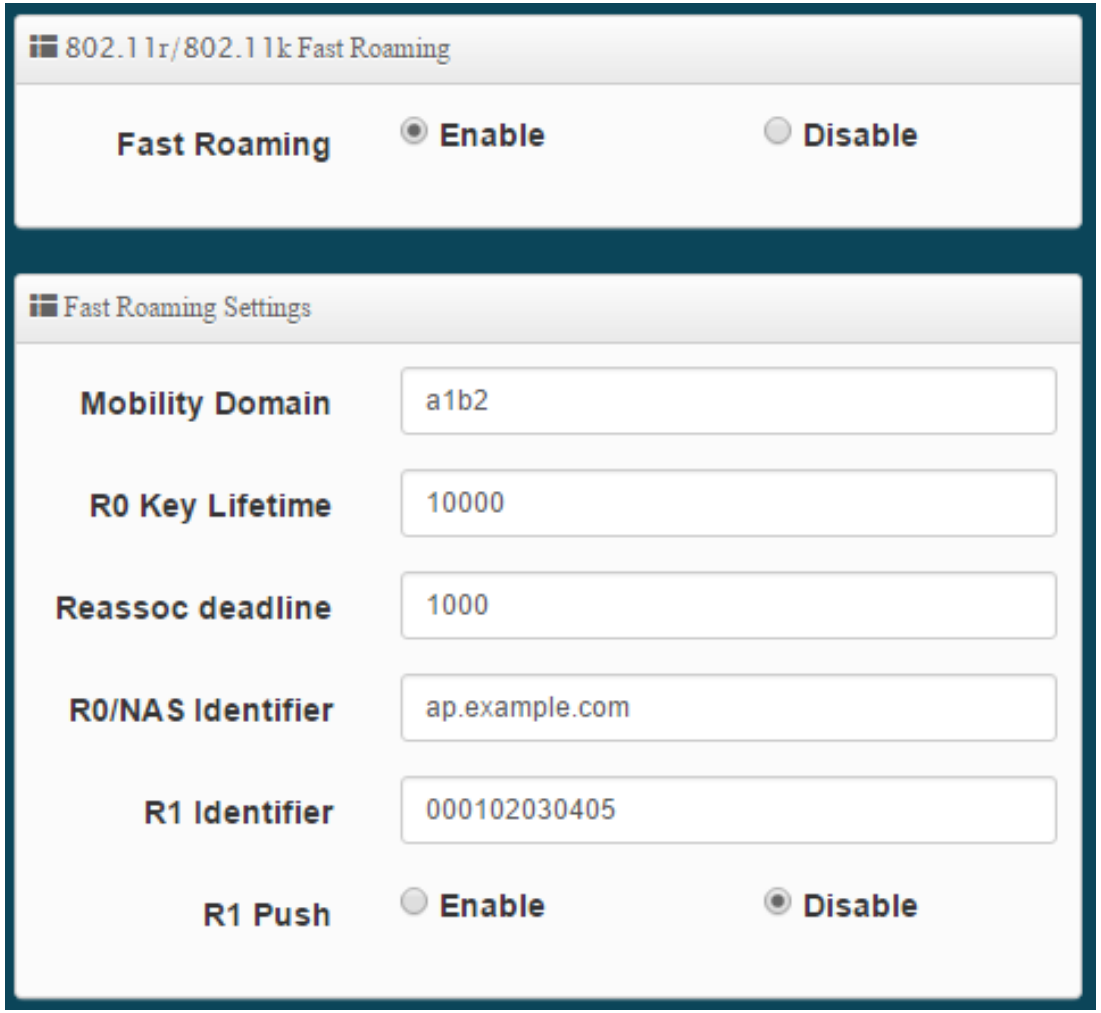


IW-100GX-N with **CenOS 5.0** supports **WDS Setup** when operating in **Access Point Mode**

IW-100GX-N's Access Point mode supports up to **8** WDS links, and includes a WDS Status page to monitor the WDS connection strength.

(8x WDS on the 2.4GHz frequency band)

Fast Roaming

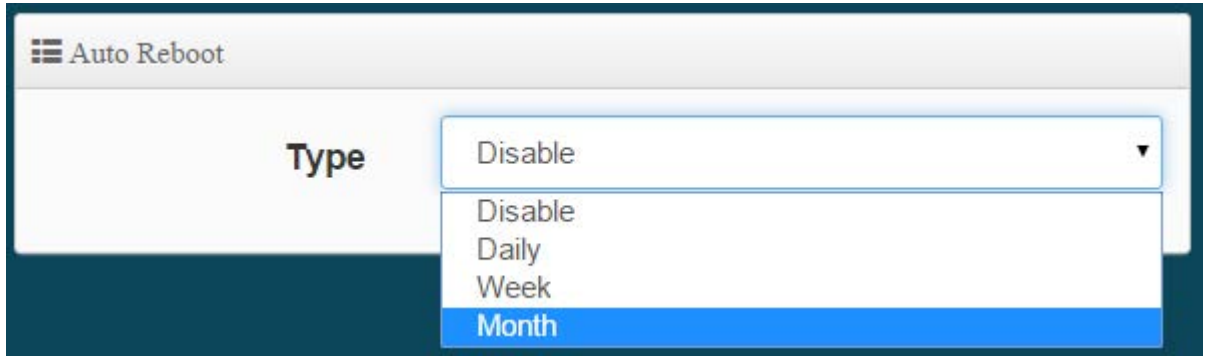


802.11k- Smartly provides roaming client with information regarding nearby APs and their channels, which prepares the client for easier roaming.

802.11r- Stores encryption keys on all the APs within the network. This simplifies the authentication process when clients roam to new APs, greatly reducing CPU loading and latency.

Additional Features

LED Control- Allows the devices LED lights to be disabled to reduce blinking irritation in sensitive environments.



Auto Reboot- Setup device auto reboot schedule to reduce CPU overloading and device crashes.

PoE Bridge- Supply power to subsequent devices such as IP Cameras and Access Points through RJ45 cabling.

What we do

Innovation & Design

Our R&D team continues to incorporate the newest wireless protocols and features to make our products perfect for enterprise deployment.

Wireless Solutions

Our Field Application Engineers and Specialists have unparalleled experience providing the perfect solution for any wireless projects (e.g. Hotels, Long Distance PTP Backhaul, Universities)

Software Development & Design

Our software provides a high featured and easily operated User Interface and also supports centralized AP Management for convenient device deployment.

Outstanding Customer Service

CERIO's customer service staff are experts on our products and possess clear and patient communication skills.

Contact Information

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