

**CERIO**

*Amplify your Wireless Network*

# Introduction to

**CERIO**

# CW-300N

With **CenOS 3.0** Software Built-in



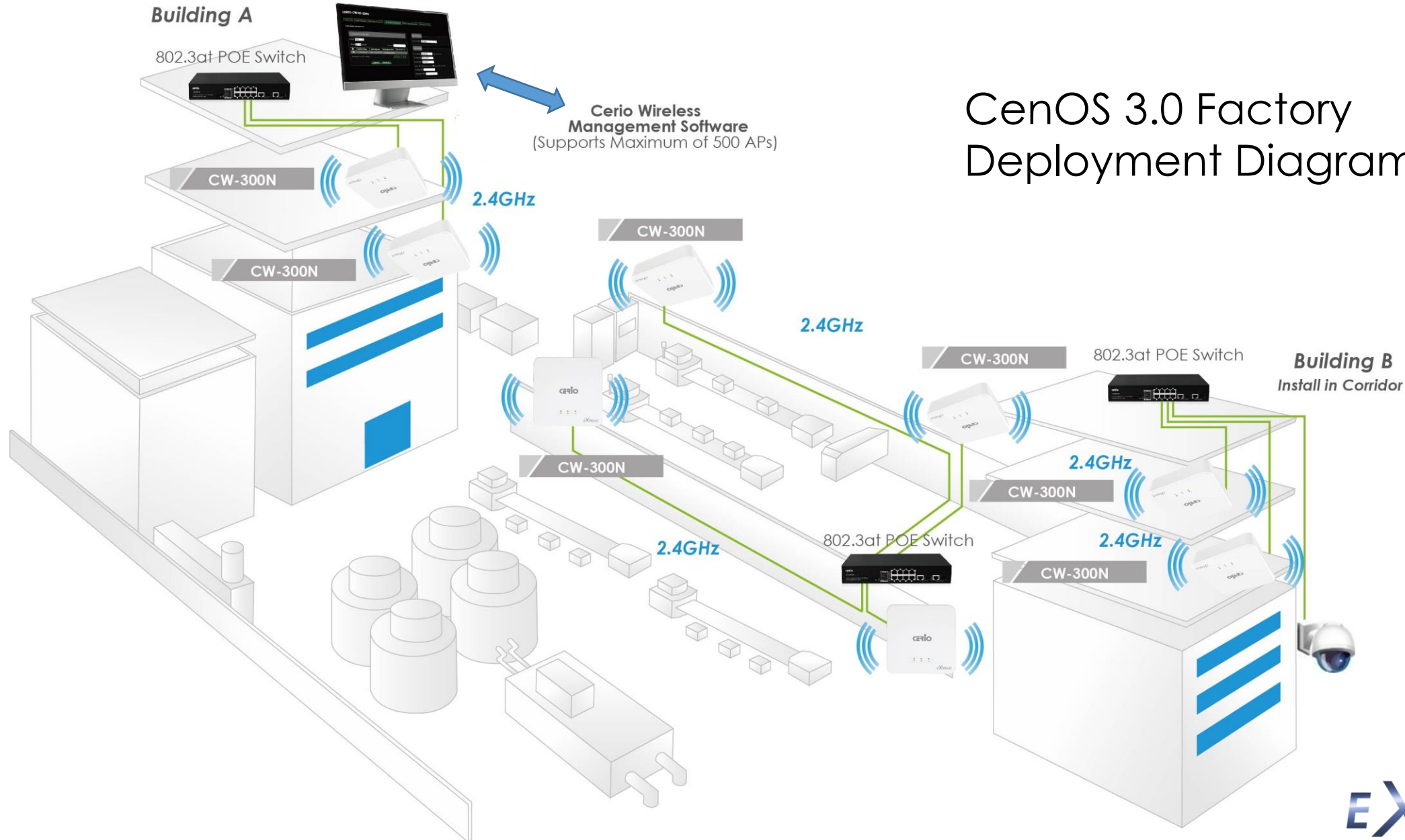
eXtreme Power 11n 2.4GHz 2x2 **Ceiling / Wall PoE Access Point** (500mW)



- 500mW at 2.4Ghz Output eXtreme High Power
- Supports bandwidth of up to 300mbps
- Supports 2 Operation Modes (CenOS 3.0)
- 2x2 Built-in 2.4Ghz Omni-Directional Antennas
- IEEE 802.3af/at Power over Ethernet
- Integrates a long-range power amplifier and high sensitivity receiver to deliver unmatched reliability and performance at large coverage application

# Enterprise Deployment

## CenOS 3.0 Factory Deployment Diagram



# Elegant Industrial Design — CERIO



Cerio's CW-300N features a clean, elegant industrial design. The device's aesthetic appeal is sure to ensure easy deployment without creating eyesores.

CW-300N also incorporates an LED Control function. This allows administrators to turn ON/OFF the device's LEDs, which is perfect for **Hotel and Office deployment.**

# Hardware Overview



Main Device Front Panel



CERIO

E XTREME



Wi-Fi LED

Ethernet LED

Power LED

Mounting Bracket



Mounting Clips

Screw Holes

Bracket Security Lock

Main Device Side Panel



Reset Button

RJ45 Port for LAN Link or PoE In

Input for DC12V Power Adapter

# Seamless Integration

CW-300N can be easily integrated onto any flat surface. This enables easy deployment in a wide array of network environments.



Ceiling Mount



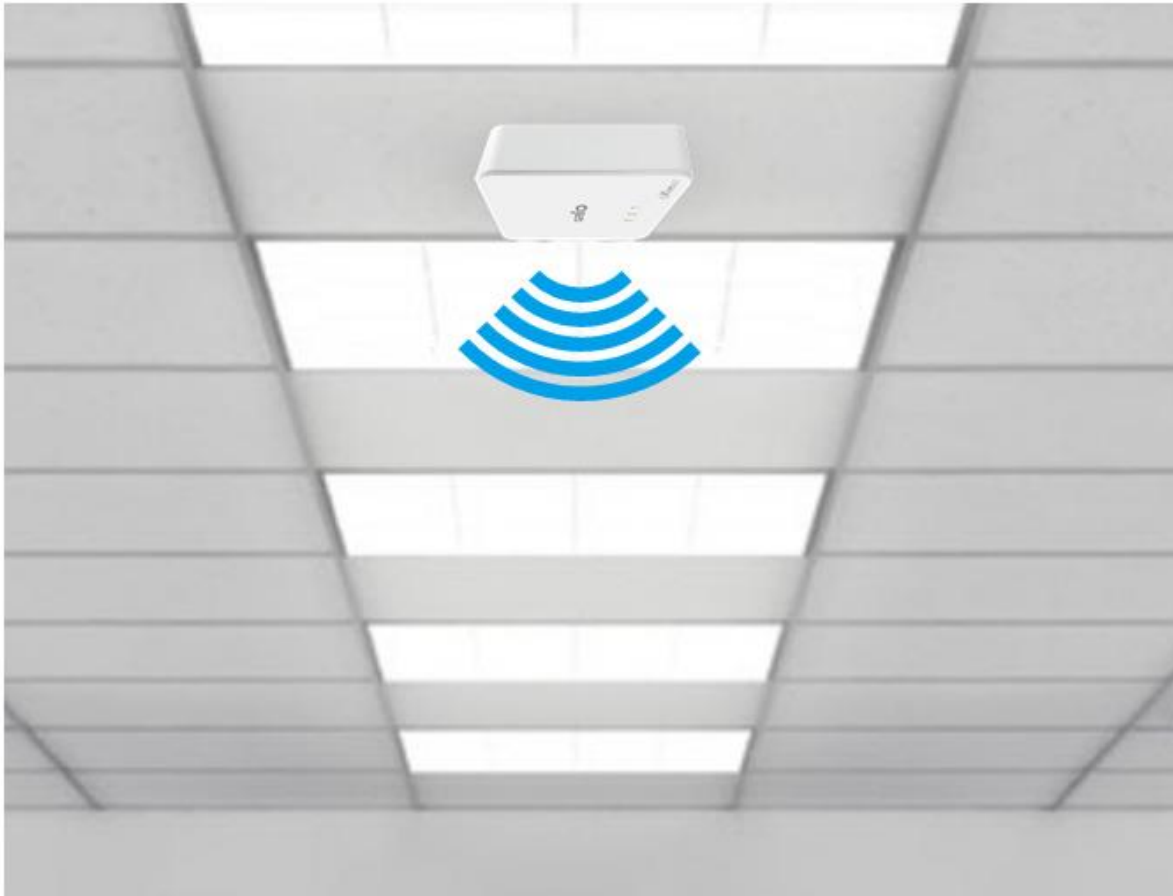
Wall Mount

Paired with our AMR-3204G-M or Cerio Wireless Management Software (CWMS), administrators can **oversee** and **manage** high density client deployment with convenience and ease.



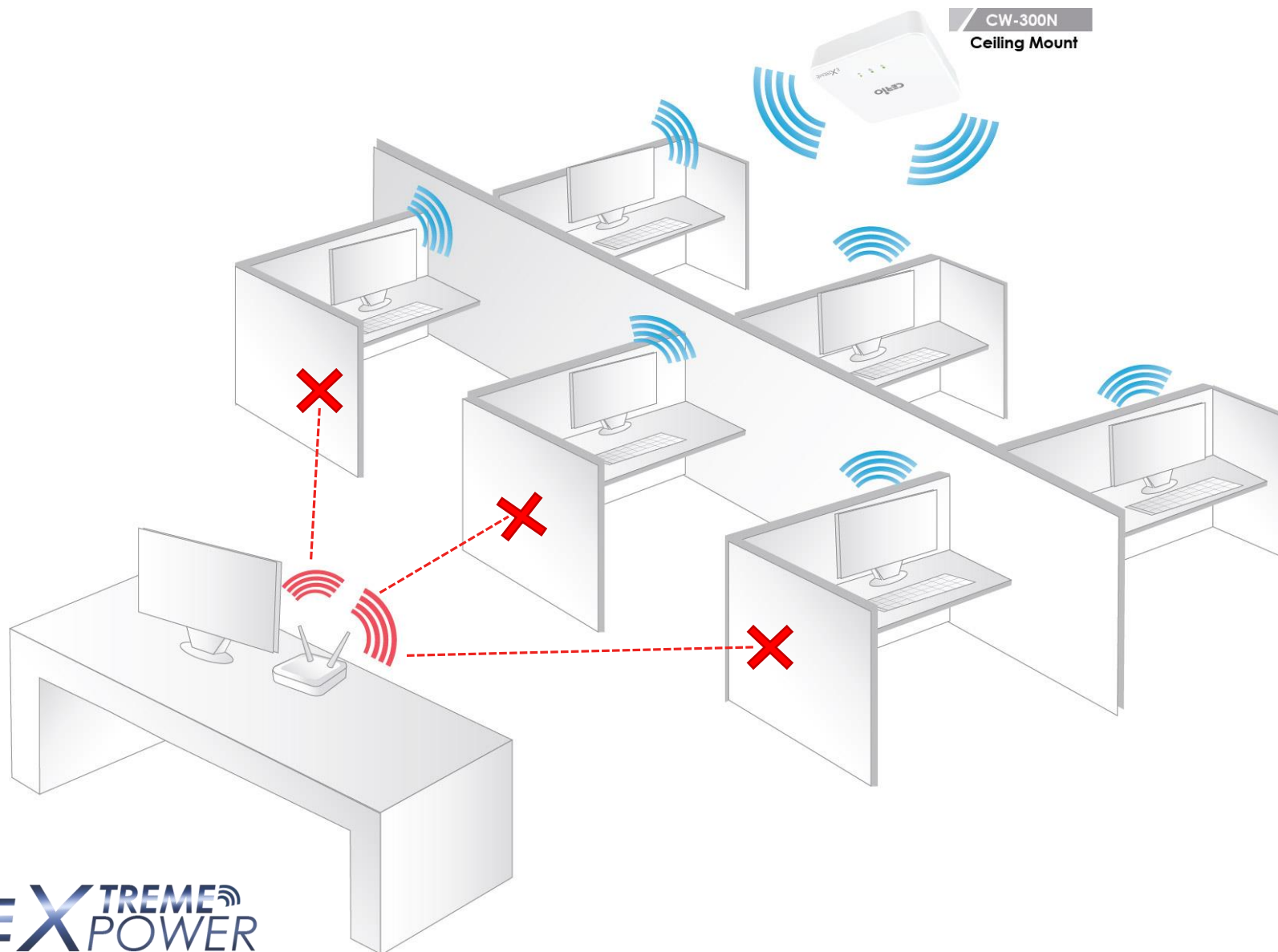


# Optional Power over Ethernet — CERIO



In deployment situations where power outlets are sparse and cabling will cause eyesores, CW-300N can utilize Power-over-Ethernet to remedy the complications. CW-300N supports IEEE 802.3af PoE protocol, allowing for more diverse forms of deployment.

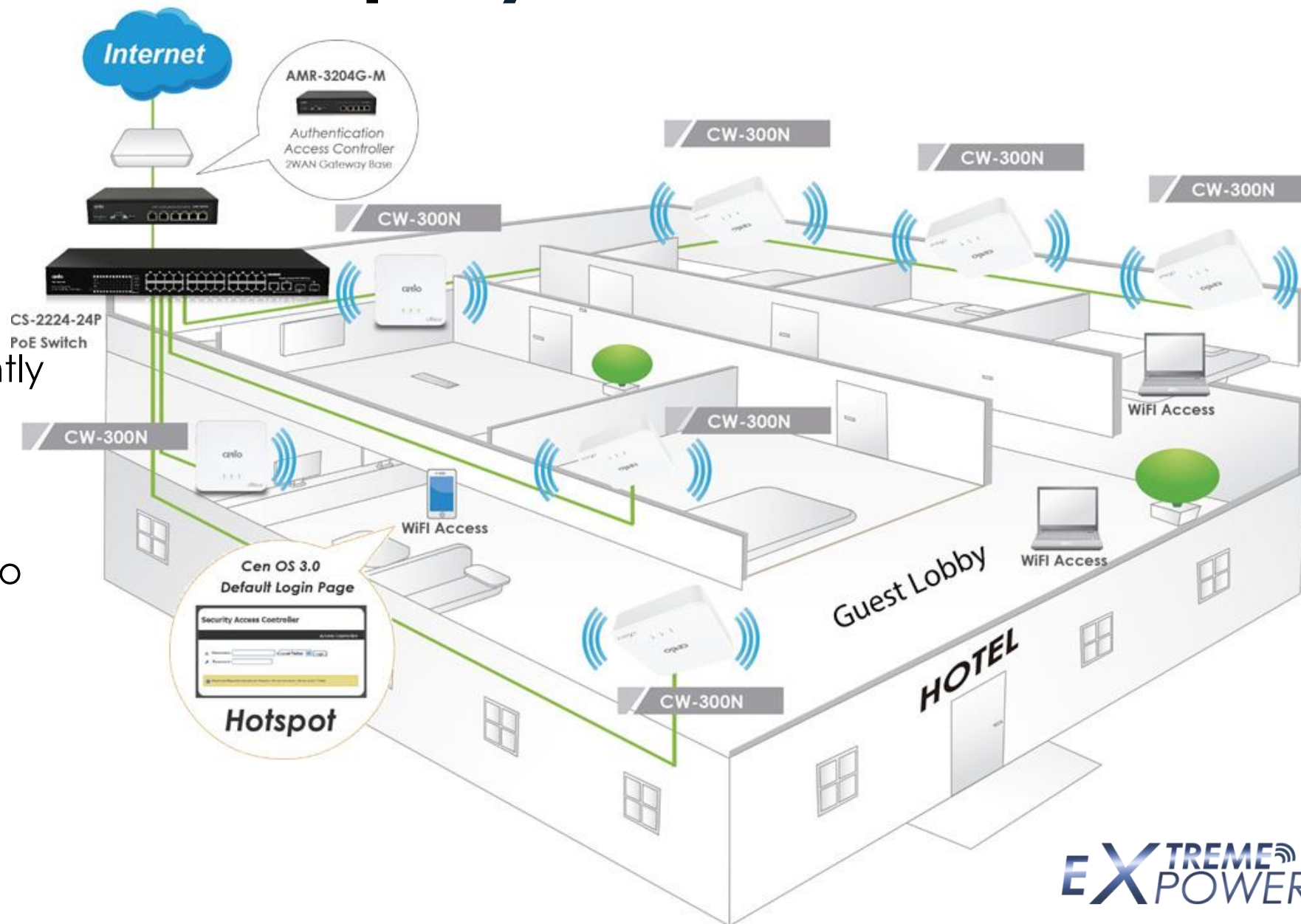
# Ideal for Office Deployment—**CERIO**



CW-300N is perfect for office deployment because of its ceiling mount design. By mounting the device on ceilings, clients can avoid **Line of Sight interferences** from barriers such as office cubicles. This ensures that your office space does not have Wi-Fi dead zones.

# Hotel Deployment

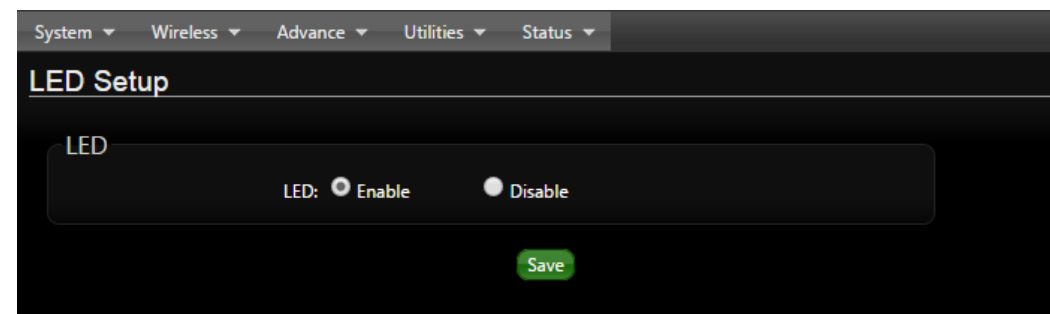
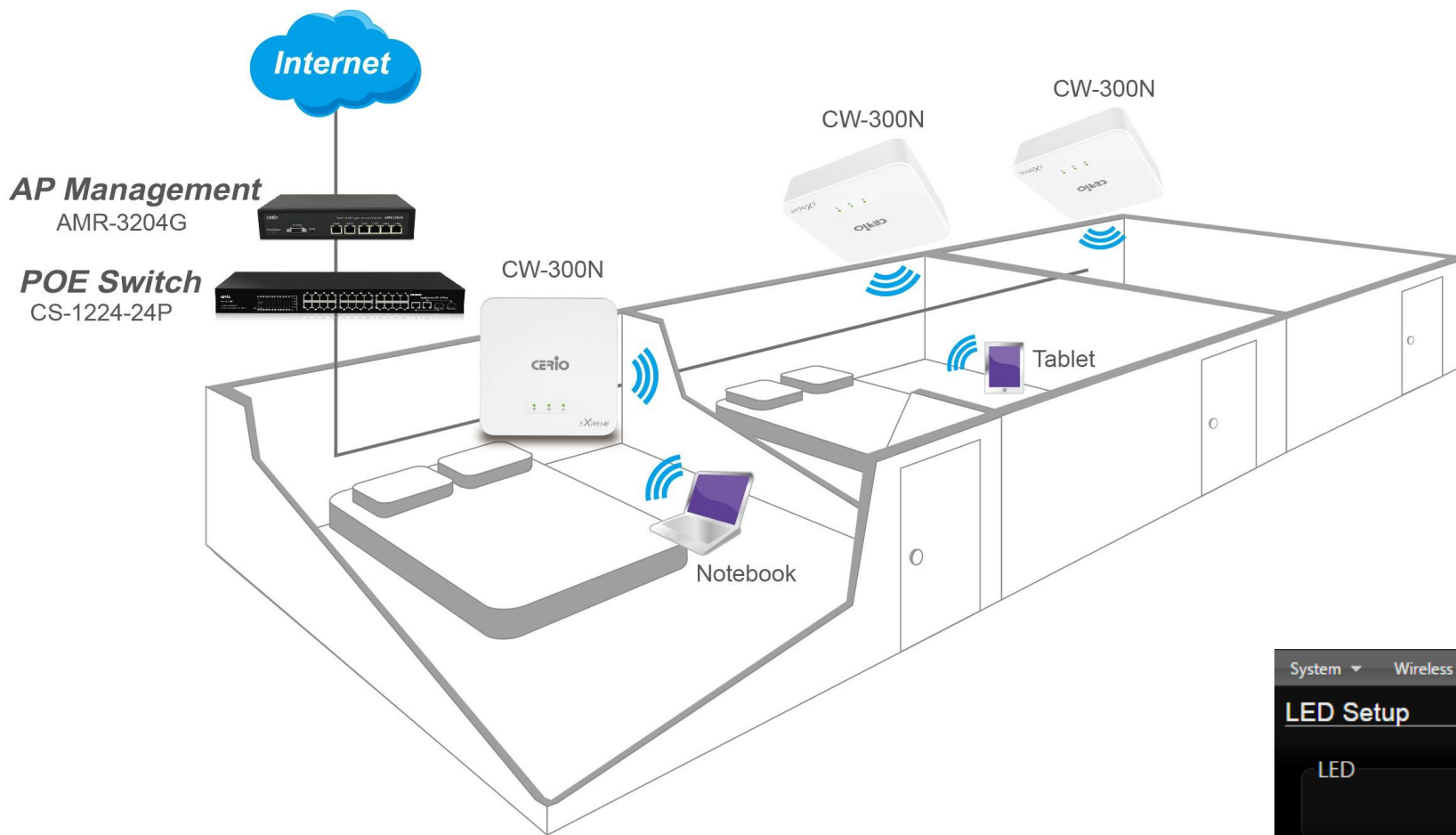
CW-300N Ceiling Access Points can be managed by Cerio AP Controller AMR-3204G. This allows administrators to conveniently control bandwidth and manage load-balancing. Hotel administrators can also create customized login to redirect hotel guests to desired websites or advertisements



# Hotel Deployment



Administrators using CW-300N's CenOS 3.0 can control the device's hardware LED lights. The On/Off setting is perfect for hotel deployment in situations where guests might find the blinking green LED lights distracting.



VAP List		
VAP	MAC Address	ESSID
VAP0	00:11:A3:1C:07:D0	AP00
<b>VAP1</b>		<b>AP01</b>
VAP2		AP02
<b>VAP3</b>		<b>AP03</b>
VAP4		AP04
<b>VAP5</b>		<b>AP05</b>
VAP6		AP06
<b>VAP7</b>		<b>AP07</b>

Cerio's CenOS 3.0 Software allows each CW-300N device to broadcast 8 SSIDs. Each SSID can be configured to a specified SSID by the network administrator. This is known as VLAN tagging. CW-300N supports up to 4096 VLAN tags.

VLAN tagging effectively marks packets with a VLAN ID to properly determine which VLAN the packet belongs to. This allows Hotels to deploy multiple VLANs (Guest/VIP) on a port, and distinguish which network each packet belongs to.

# Highlight Features

- Seamless integration and deployment through mounting design
- Elegant industrial design perfect for high class indoor deployment such as hotels and luxury homes
- Can broadcast up to 8 SSIDs, all of which support VLAN tagging
- Manageable by Cerio Wireless Management System (CWMS) and AMR-3204G-M AP Controller
- Supports Watch Time Dog, the OS smartly reboots the system before a major crash.

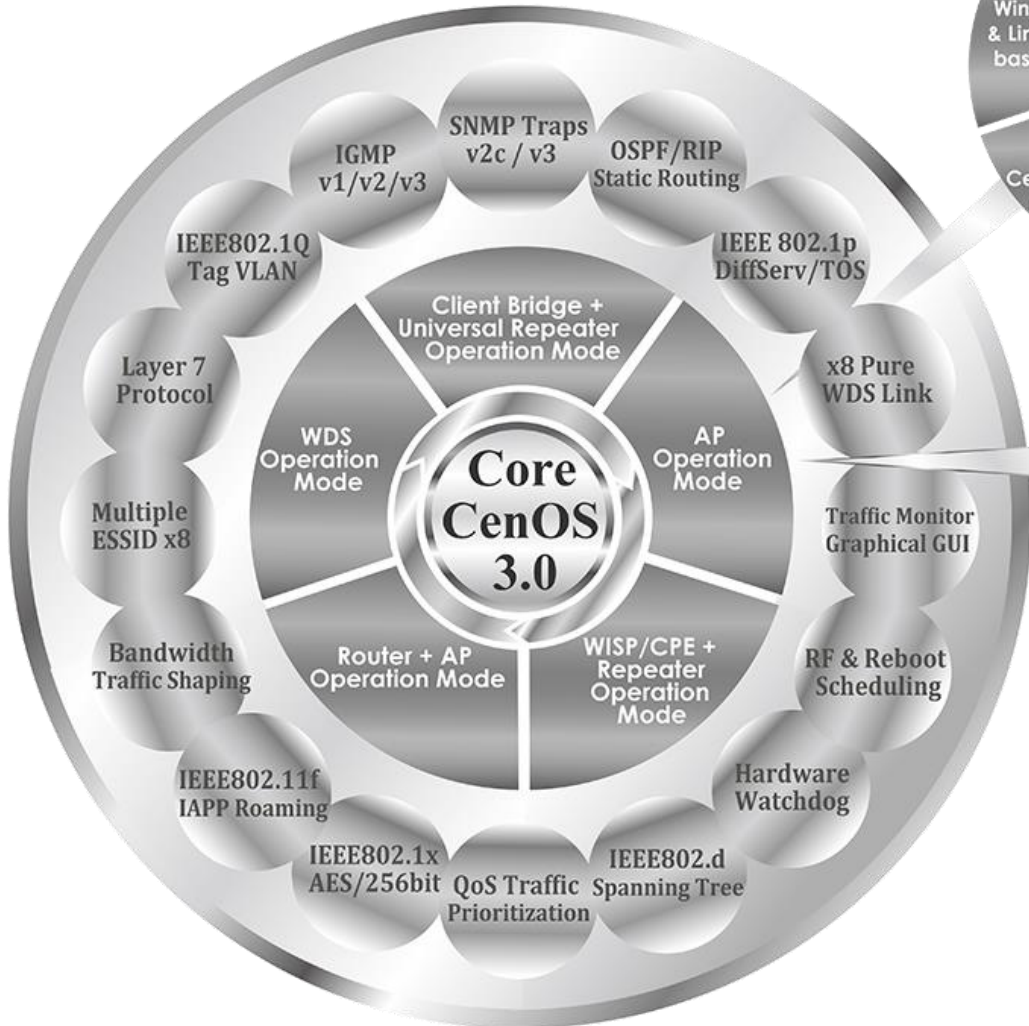


# CenOS 3.0

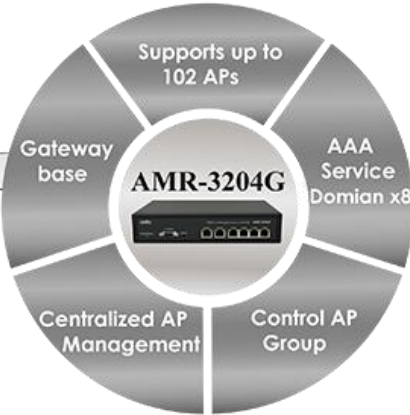
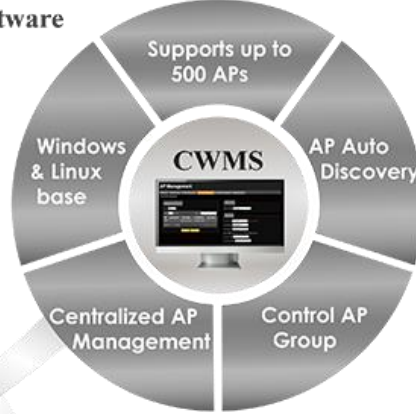
Software Built-in

# CenOS 3.0 Software Overview - CERIO

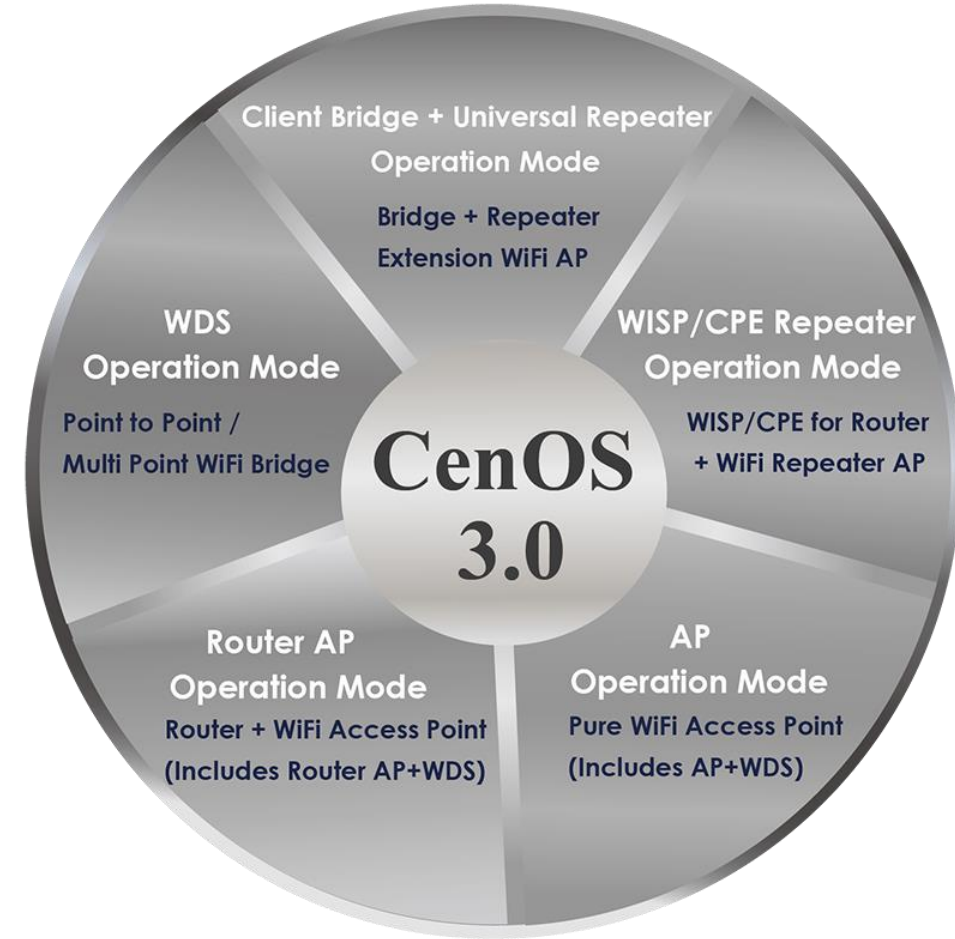
## CenOS 3.0 Software Kernel



## Cerio Wireless Management Software Supports



Cerio Hardware includes GS Controller



Only Cerio's special model supports Router AP mode



## 8 Multiple-ESSID Support

- Allows for organized network segmentation by administrators

## Integration

- Utilizes IGMP v1/v2/v3 Snooping Function
- Spanning Tree Protocol to ensure a loop free network infrastructure.
- Includes Web Management Support (CWMS)
- Integrated SNMP (Simple Network Management Protocol) MIB-II
- Supports Hardware chipset base Watch Time Dog Function

## Quality of Service (QoS)

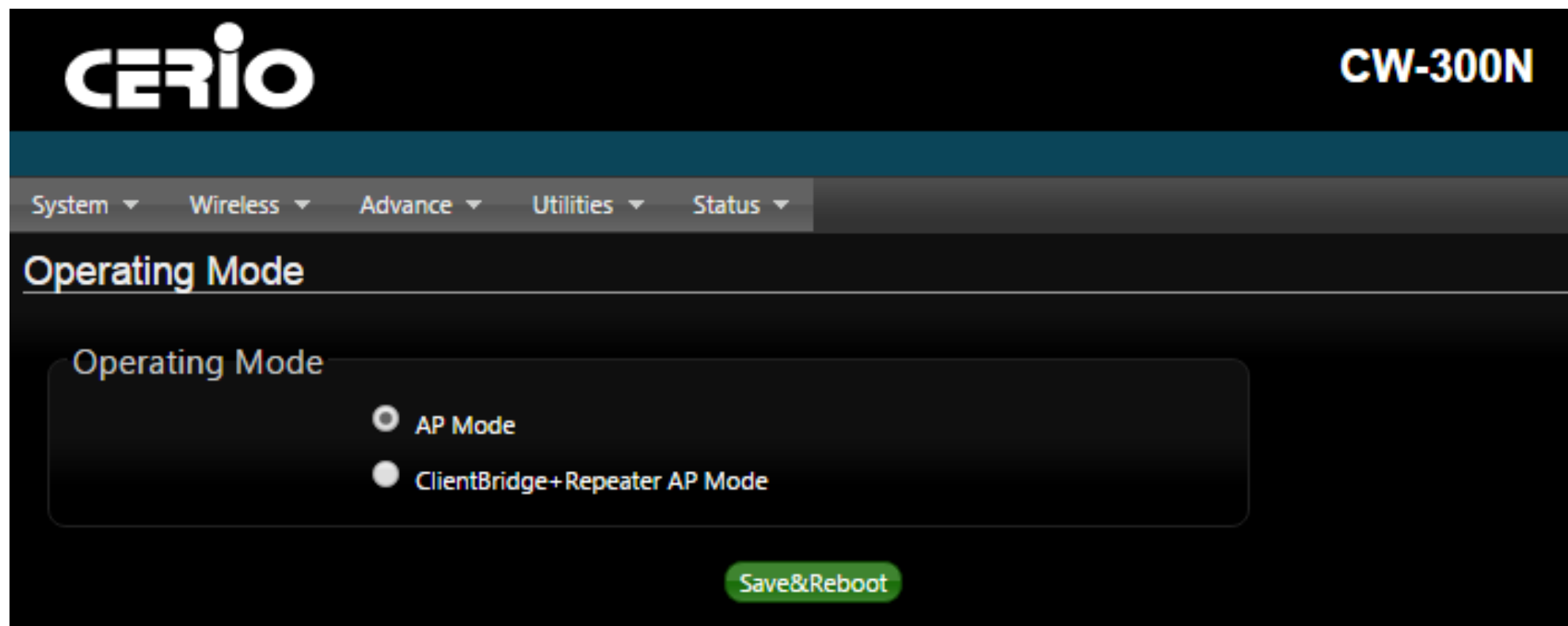
- For bandwidth management and Traffic Prioritization

## Built-in Software Interface

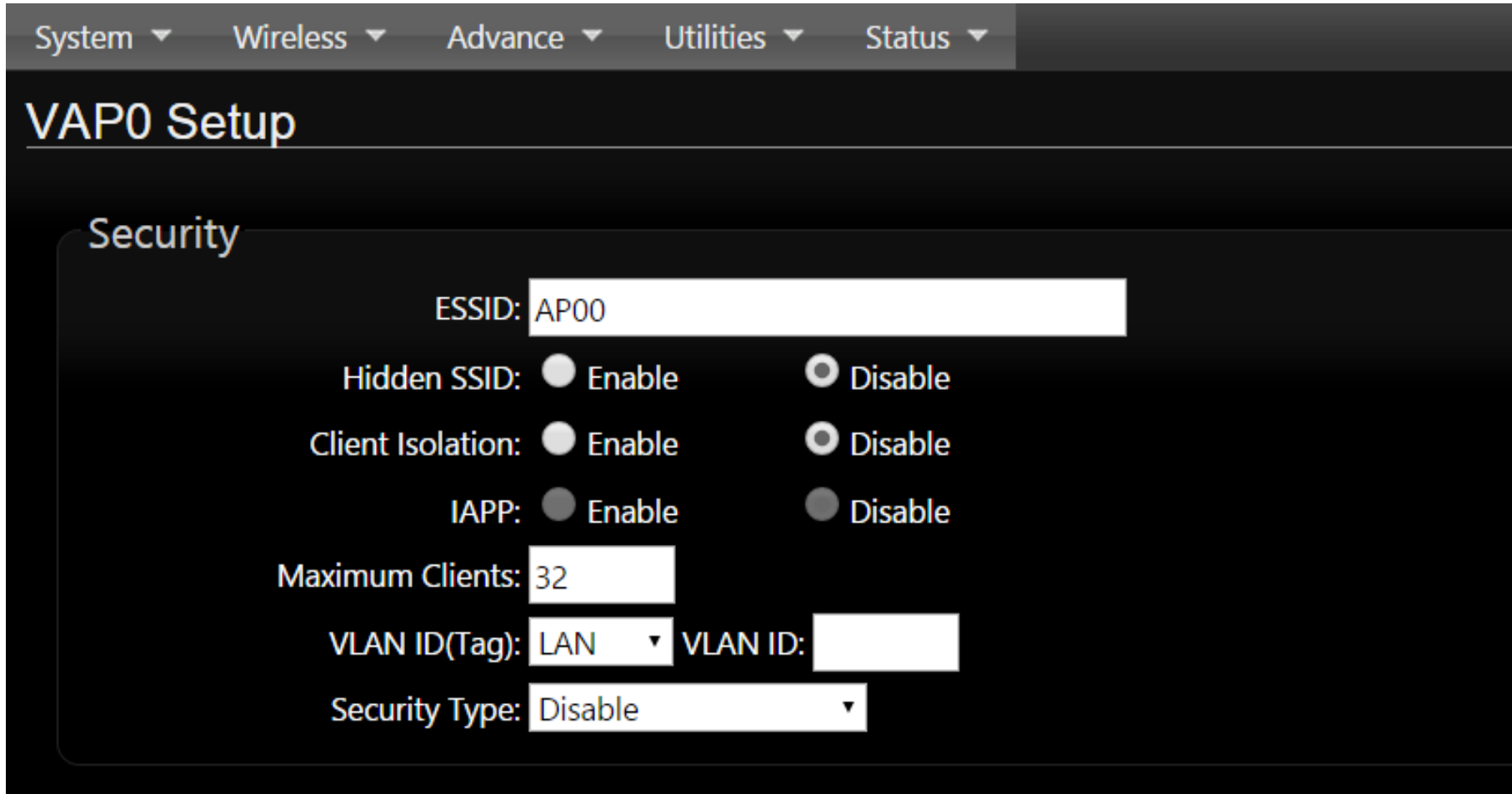
- Built-in Cerio CenOS 3.0 which allows administrators to easily configure, monitor, and manage CW-300N settings and functions.

# 2 Operation Modes

Cerio's CW-300N Supports **ONLY 2 Operation Modes**



Create and manage up to **8 ESSIDs** to segment you network. This allows administrators to **separate traffic** within VLANs, allowing for more organized network construction.



The screenshot shows the 'VAP0 Setup' configuration page with a 'Security' section. The configuration includes:

- ESSID: AP00
- Hidden SSID:  Enable  Disable
- Client Isolation:  Enable  Disable
- IAPP:  Enable  Disable
- Maximum Clients: 32
- VLAN ID(Tag): LAN (dropdown) | VLAN ID: [ ]
- Security Type: Disable (dropdown)

System ▾ Wireless ▾ Advance ▾ Utilities ▾ Status ▾

## QoS Setup

### Bandwidth Control

Service:  Enable  Disable

Mode:  Total Bandwidth  Per Rule Bandwidth

Upload:  kbps

Download:  kbps

### Per Rule

Comment:

Type:  ▾

IP:

Upload:  kbps

Download:  kbps

### QoS List

#	Comment	Rule	Bandwidth(U/D)	Action
No items in the list!				

Quality of Service allows for bandwidth control which permits Administrators to allocate bandwidth to parties as they see fit

QoS also allows for Rule setting customization, where admins can enact QoS Rules to specific individual IP Addresses, Segments, MAC addressed, and even Ports.

Wi-Fi RF Signal on/ off By scheduling control

### Time Policy Setup

Policy 3

Policy: Policy 3

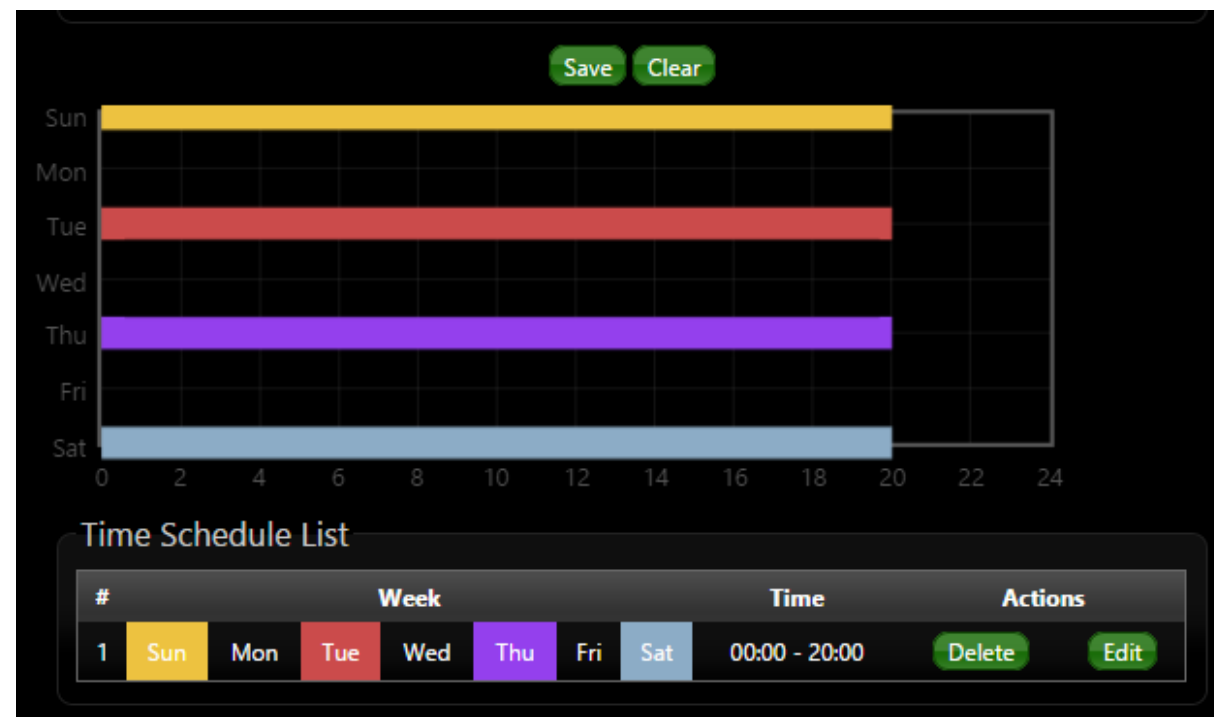
Schedule Rule:  On Schedule  Out of Schedule

### Time Schedule

Day of Week:  Sun  Mon  Tue  Wed  Thu  Fri  Sat

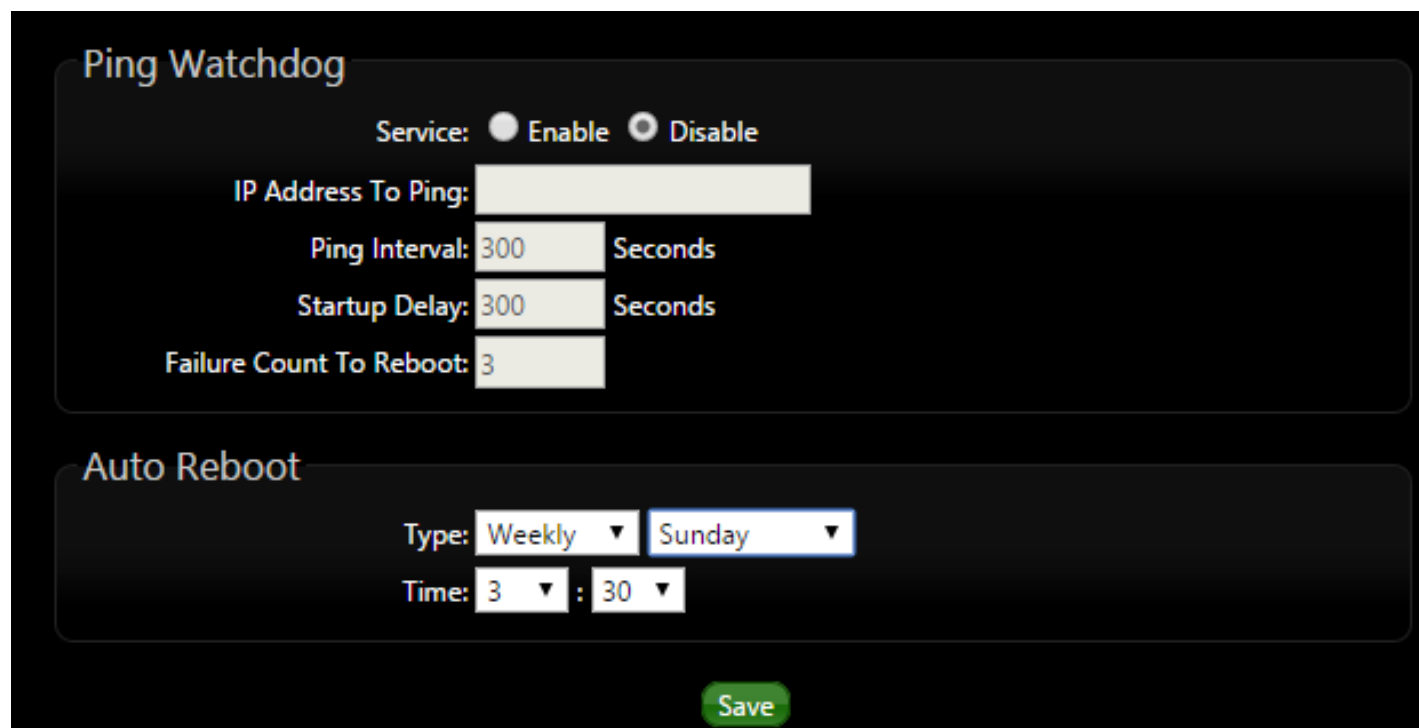
Start From: 00 : 00

End At: 20 : 00



CW-300N's CenOS 3.0 Time Policy function allows **for management of usage time** within a network. CenOS 3.0's easy to use interface allows for simple configuration of Day/Time restrictions that administrators can place on users within the network.

Administrators can activate the CenOS 3.0 Auto Reboot function that effectively reboots the network system routinely based on admin settings. This enables better system reliability and a lower likelihood of crashes. It also reduces the need for constant on-site system maintenance in case of system crashes. This setting is ideal for Hotel deployment.



**Ping Watchdog**

Service:  Enable  Disable

IP Address To Ping:

Ping Interval:  Seconds

Startup Delay:  Seconds

Failure Count To Reboot:

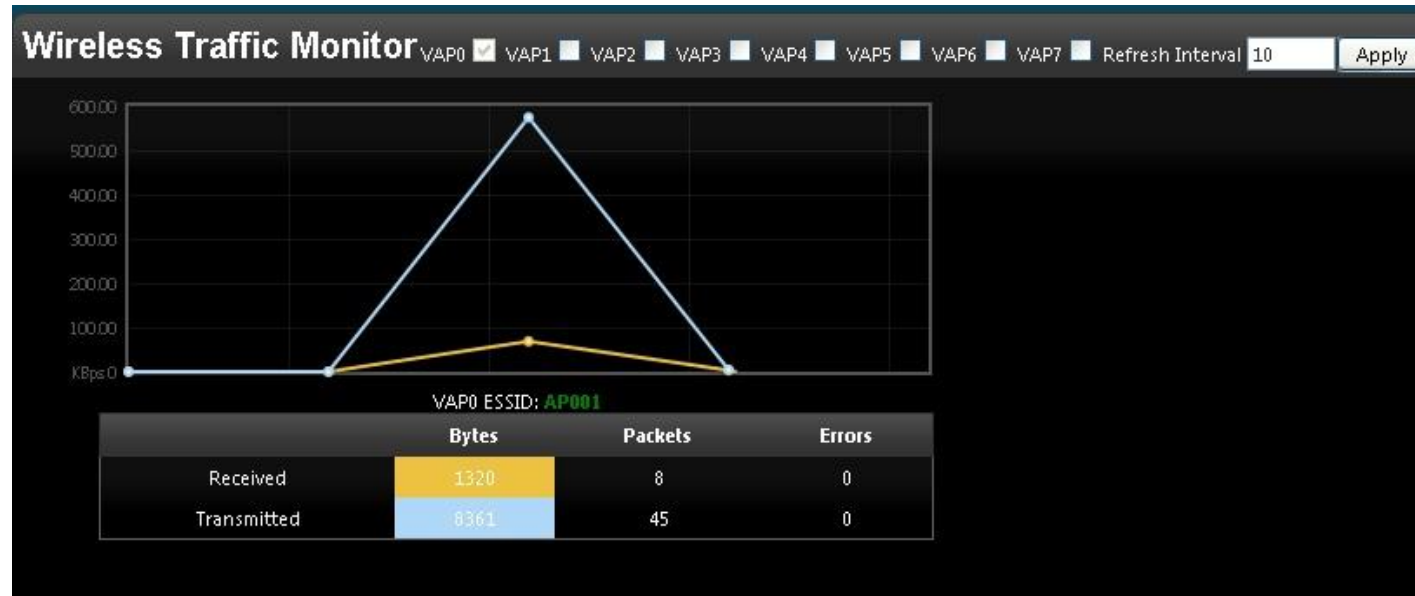
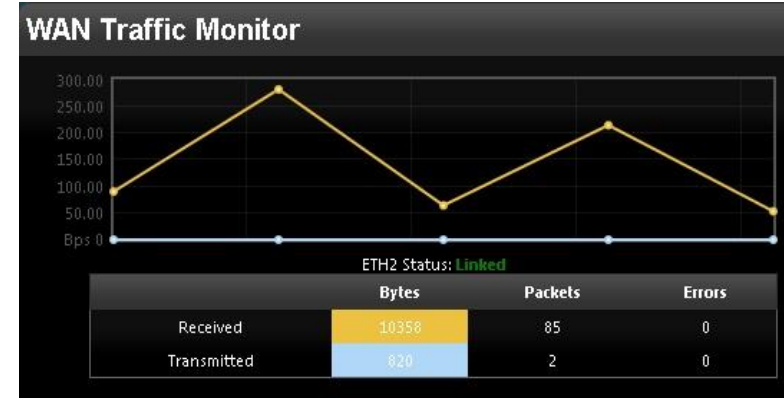
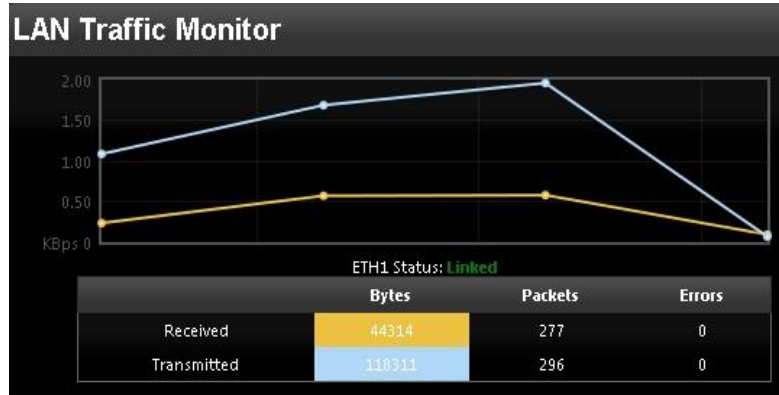
**Auto Reboot**

Type:

Time:  :

# Traffic Monitoring

CenOS 3.0 provides a Traffic Monitor and Graphical GUI Status Interface.



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