

Introduction to OW-500 A1/OW-500 A3

CERIO
Amplify your Wireless Network



**eXtreme Power Wave2 4X 2x2
Tri-Band Outdoor Bridge/AP**

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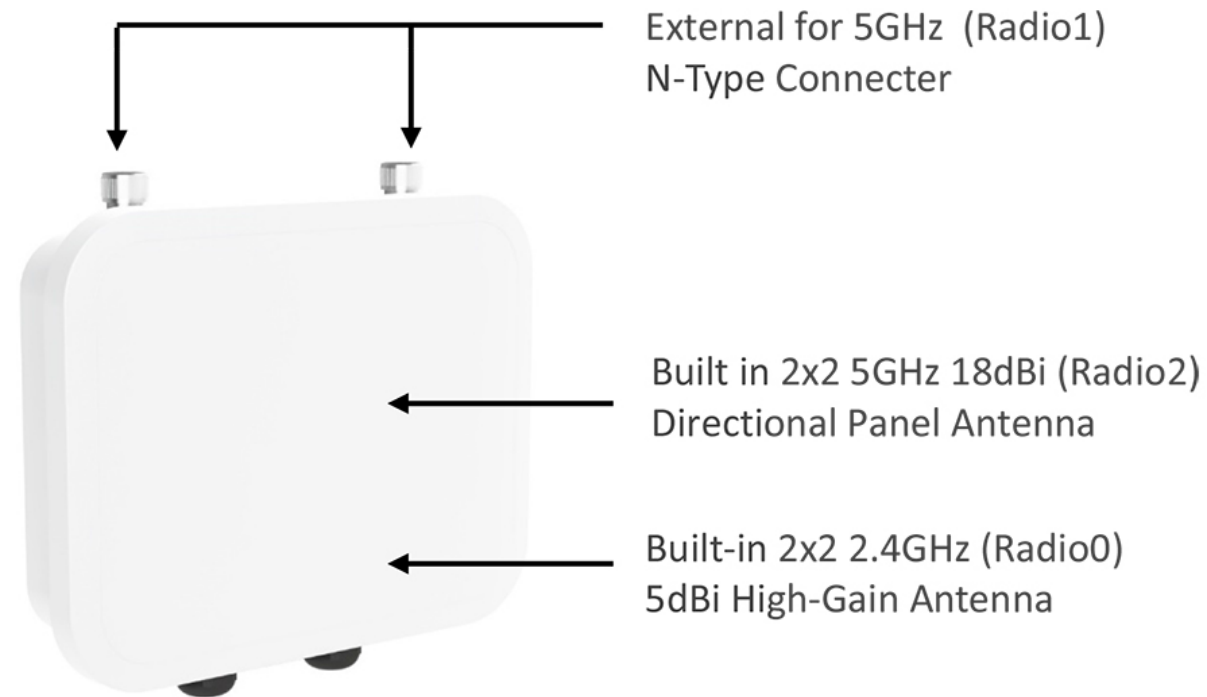
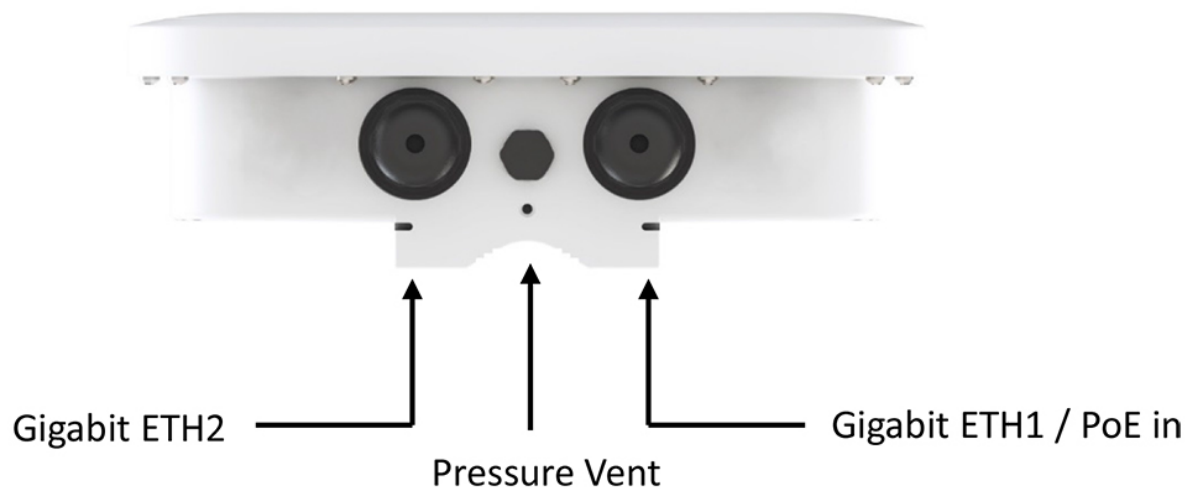


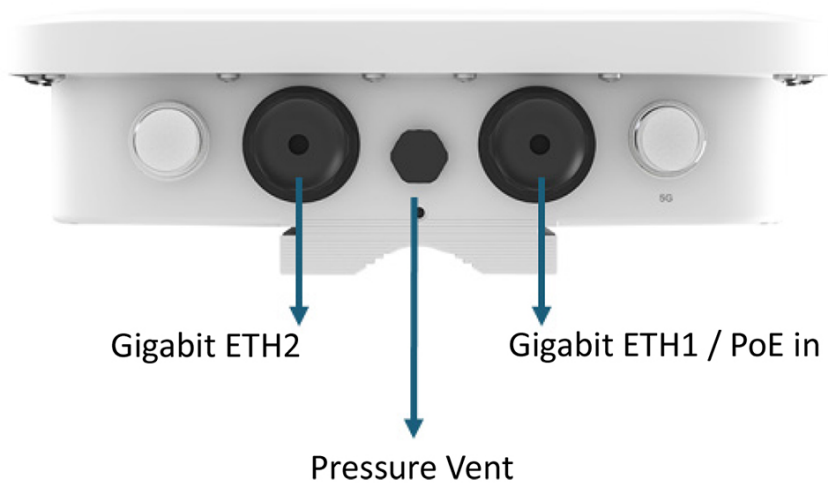
- Supports 2.4/5/5GHz concurrent Tri-Band function
- 2.4GHz band supports standard IEEE 802.11 bgn with maximum data transfer rate of 400Mbps
- 5GHz(Radio1) and 5GHz(Radio2) bands supports IEEE 802.11 an/ac each with a maximum data transfer rate of 867Mbps
- Supports 2 10/100/1000Mbps Gigabit Ethernet Port and ETH1 port supports PoE function
- IEEE 802.3af/at Power over Ethernet supported
- Support 4 external N-Type connectors are assigned to the 5GHz band and one built-in 2x2 2.4GHz 5dBi High-Gain Omnidirectional Antenna(**OW-500 A3**)
- Built in 2x2 5GHz 18dBi Directional Panel Antenna and 5dBi 2.4GHz High-Gain Antenna and Support 2 external N-Type connectors are assigned to the 5GHz band (**OW-500 A1**)
- With IP68 weather-proof durable design are made to withstand harsh environment deployment

Advanced Features **CERIO**



- Concurrent Tri-Band access point with the latest MU-MIMO Wave2 technology provides wireless 4 channel (4x speed) simultaneous operation in Tri-band 2.4GHz, 5GHz(Radio1)and 5GHz(Radio2) wireless coverage for maximum flexibility.
- Operation modes include: AP with WDS Mode and Captive Portal, Control Access Point Mode, Client Bridge Mode, and WISP/ CPE Mode
- Provide customizable login and logout Captive portal page by Web Page
- Built in 802.1x RADIUS authentication server and supports up to 50 User Accounts
- Incorporates 802.11r/k Fast Roaming Protocol
- CenOS 5.0 Control Access Point Mode (CAP) supports centralized management of up to 64 AP devices
- Unique design for bundles RJ45 Function Kit, which is able to reset the device to default remotely. It can save extra re-installation cost and time
- Integrates a long-range power amplifier and high sensitivity receiver to deliver unmatched reliability and performance at large coverage application





External for 5GHz (Radio1)
N-Type Connector

External for 5GHz (Radio1)
N-Type Connector



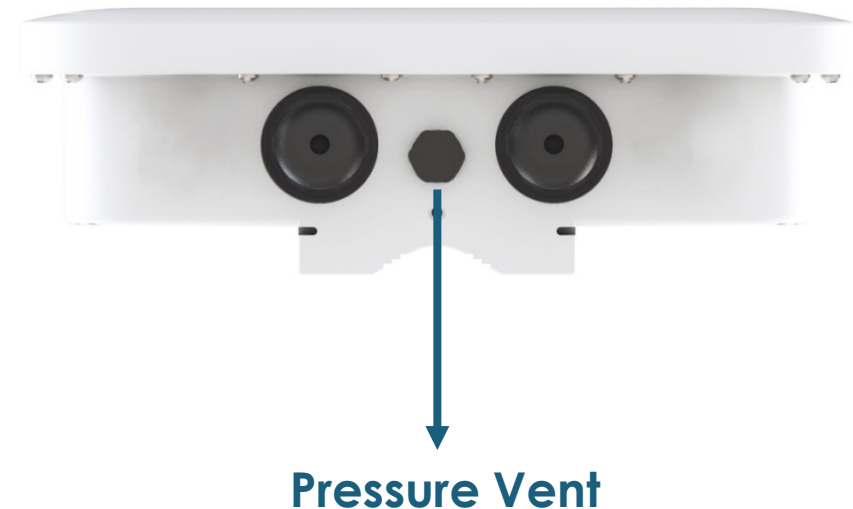
External for 5GHz (Radio2)
N-Type Connector

External for 5GHz (Radio2)
N-Type Connector

The integrated pressure vent allows the IP68 enclosure to breathe safely.

This auto-adjusting technology **equalizes pressure** inside the device and **reduces condensation** from building up inside.

The overall result of the Pressure Vent is that product performance and durability are increased. This effectively gives users peace of mind when deploying out OW-500 Series products.



IP68 Rating Waterproof — CERIO

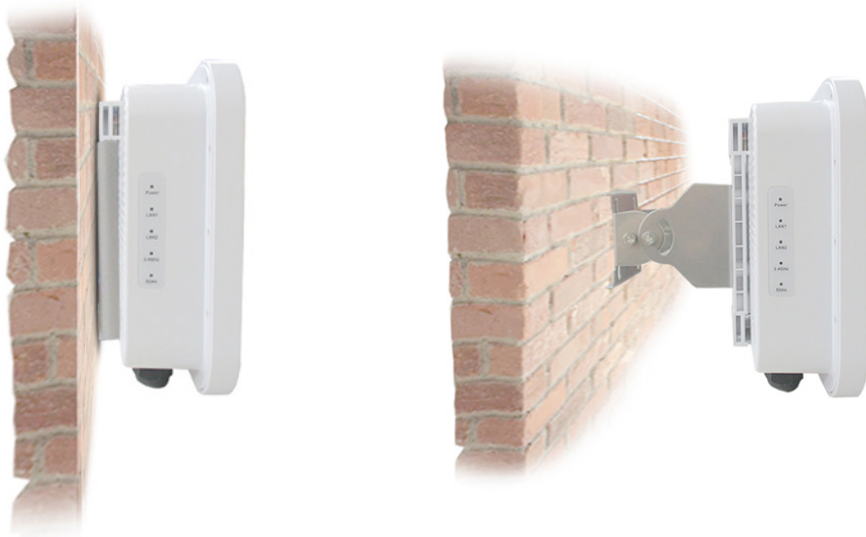


Support P68 Rating Waterproof Design

OW-500 Series provide high performance and IP68 durable design are made to withstand harsh environment deployment. This provides product durability and user peace of mind when deploying wireless devices in outdoor environments.

Versatile Mounting

Wall Mount Supported



Adjustable

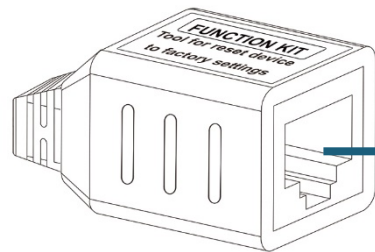
Pole Mount Supported



Adjustable

Hardware Reset Function Kit

Bundles RJ45 Function Kit, which is able to reset the device to default remotely. It can save extra re-installation cost and time.



RJ45 Function Kit



ETH2 Port

RJ45 LAN Cable

Surge Protector

Indoor/Outdoor Surge Protector (Optional)

Provides surge protector for optional · Installing two surge protector devices, one is nearly terminal equipment (such as OW-500 Series Outdoor AP or other Ethernet devices), and the other at source equipment (such as Switch, Router). Damaging ESD attacks and surges will be absorbed by the surge protector devices and safely discharged into the ground. It is a cost-effective solution for protecting expensive outdoor Ethernet devices

Outdoor Type POE-OSP

Indoor Type POE-ISP



Surge Protector Application

POE-OSP for Outdoor

PoE equipment / WiFi AP / IPCAM



Lightning Strike

Urge
< 1 meter

Protected for Outdoor equipment

Ground wire
to ground rod

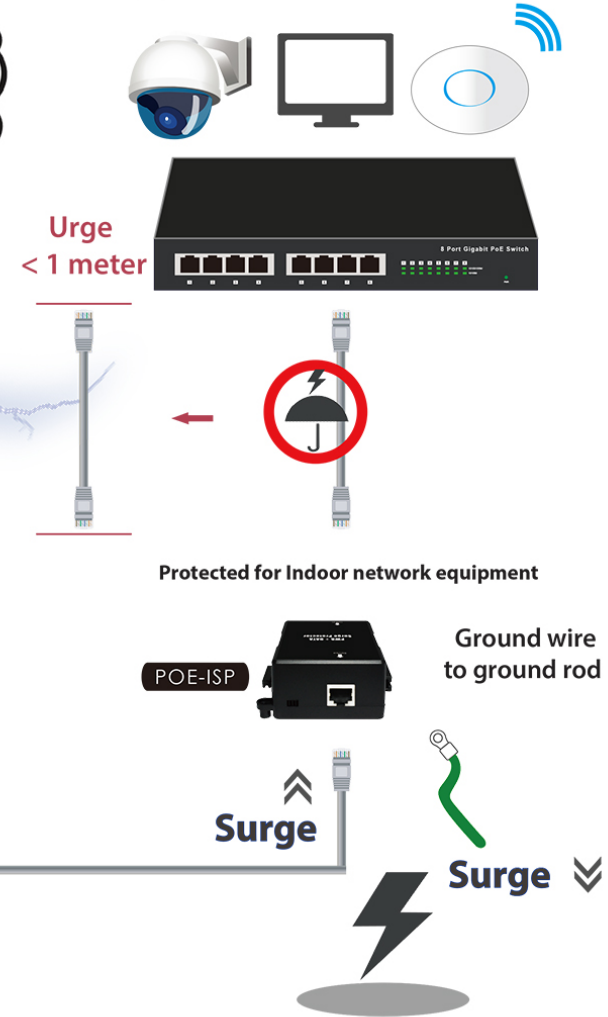
POE-OSP

Surge

Surge

POE-ISP for Indoor

Equipment for PoE Switch / WiFi AP / IPCAM



Urge
< 1 meter

Protected for Indoor network equipment

POE-ISP

Ground wire
to ground rod

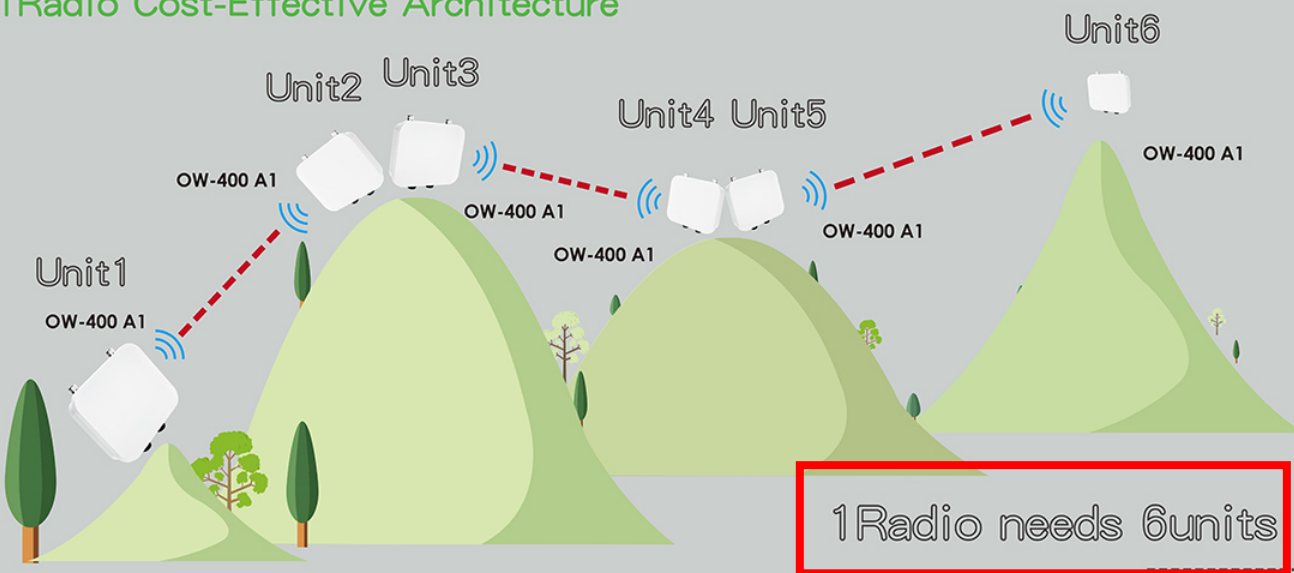
Surge

Surge

Surge

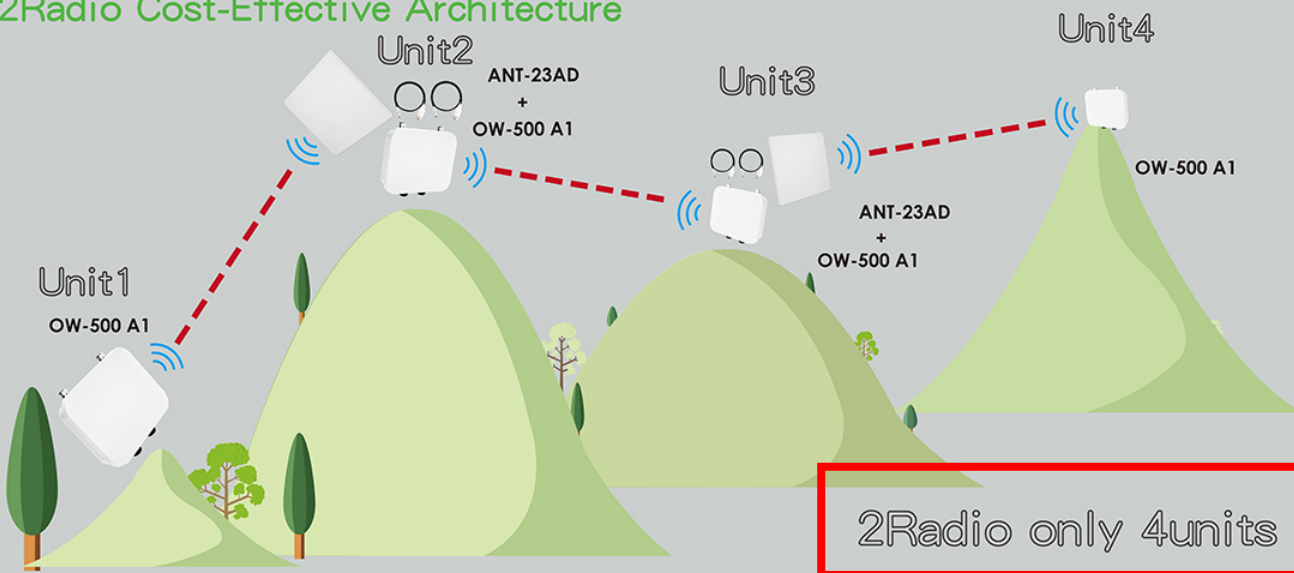
5Ghz 1Radio : Long distance PtP / PtMP , Bridge Architecture Dual-Band

1Radio Cost-Effective Architecture



5Ghz 2Radio : Long distance PtP / PtMP , Bridge Architecture Tri-Band

2Radio Cost-Effective Architecture



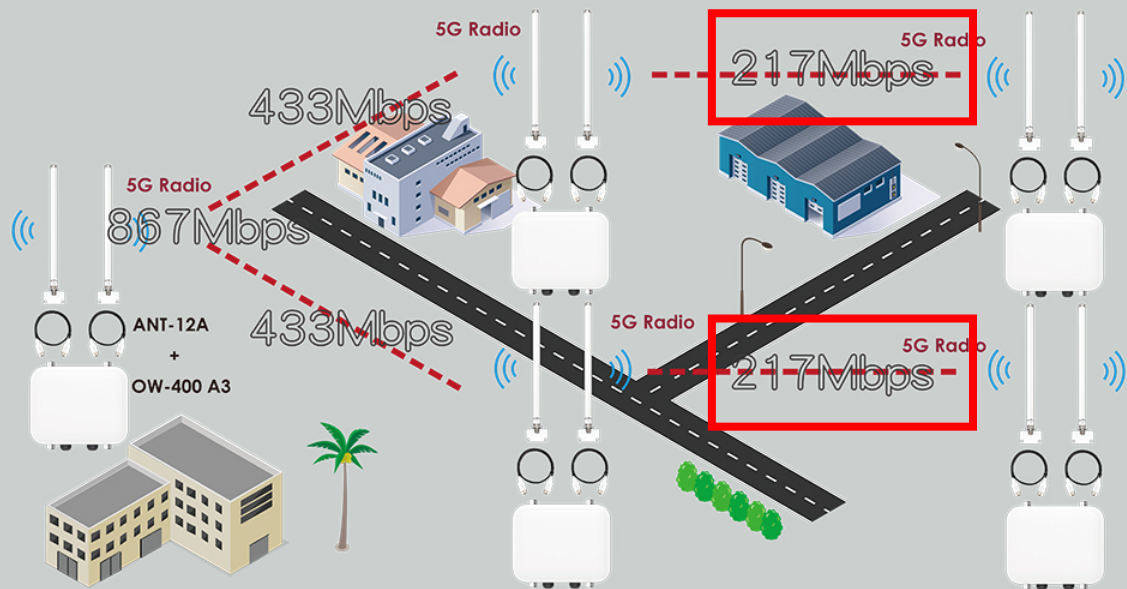
Tri-Band



Long-distance P-to-P / P-to-MP architecture cost-effective solution

The OW-500 Tri-band series uses two 5GHz radios to make a multi-point (P-to-MP) long-distance bridge (uplink/downlink) to complete a multi-link network Bridge easily. Compared with dual-band single 5GHz radio HW design, due to the limitation of one radio which can only apply to uplink or downlink connection. Therefore, OW-500 Tri-band series provide the most economical long-distance wireless bridge application, greatly reducing the installation and procurement costs of wireless architecture.

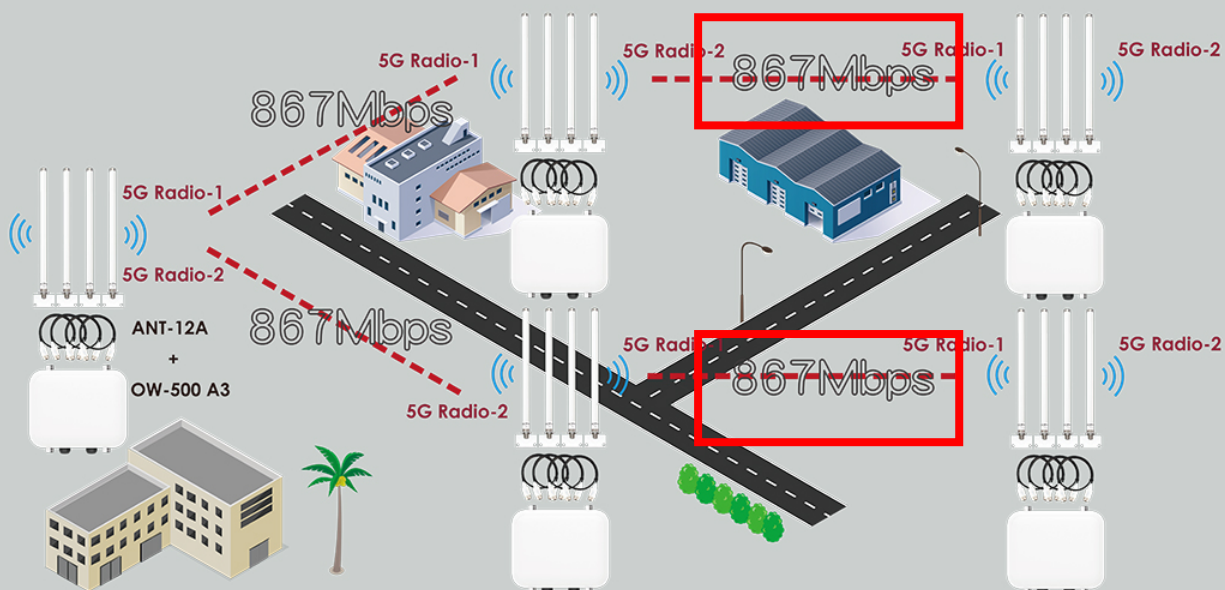
5Ghz 1Radio : PtmP / PtP Bridge Architecture Performance drop Dual-Band



When the Tri-band equipment do wireless bridging then bridging, it will not affect performance

The Multi-radio feature completely solves the single radio shares the innate principle of uplink and downlink transmission performance. For example, the OW-500 Tri-band series one 5G Radio can be responsible for the uplink, and the other 5G Radio can be responsible for the downlink so that their links can maintain the highest transmission performance. Compared with the Dual-Band model, this tri-band model greatly improves the transmission performance of the wireless architecture.

5Ghz 2Radio : PtmP / PtP Bridge Architecture High performance Tri-Band



5Ghz 1Radio : Distant area / backhaul Cost Effectiveness of 1Radio Dual-Band

1Radio needs 4units

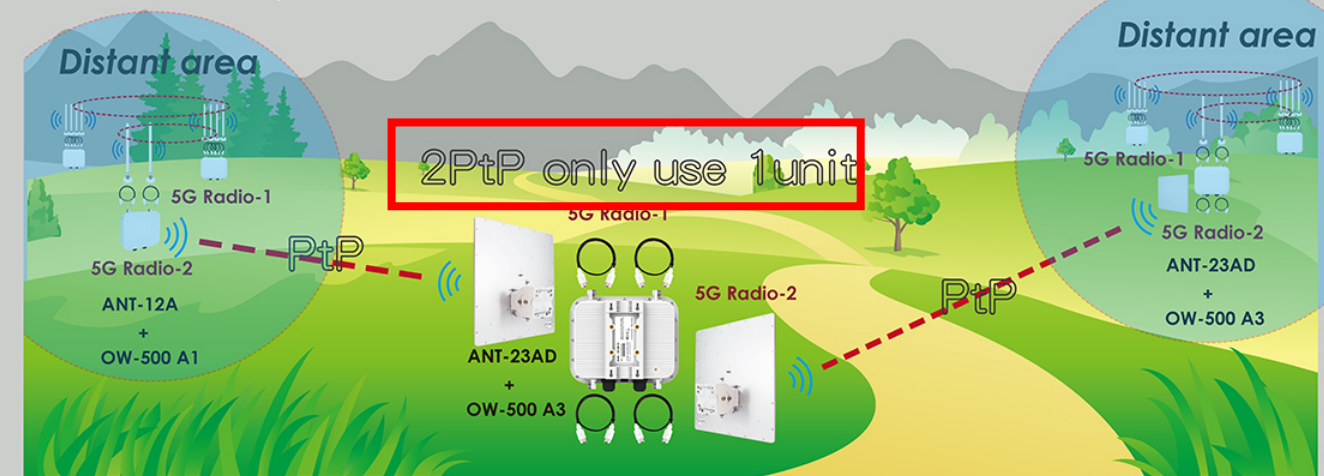
1Radio needs 4units



5Ghz 2Radio : Distant area / backhaul Cost Effectiveness of 1Radio Tri-Band

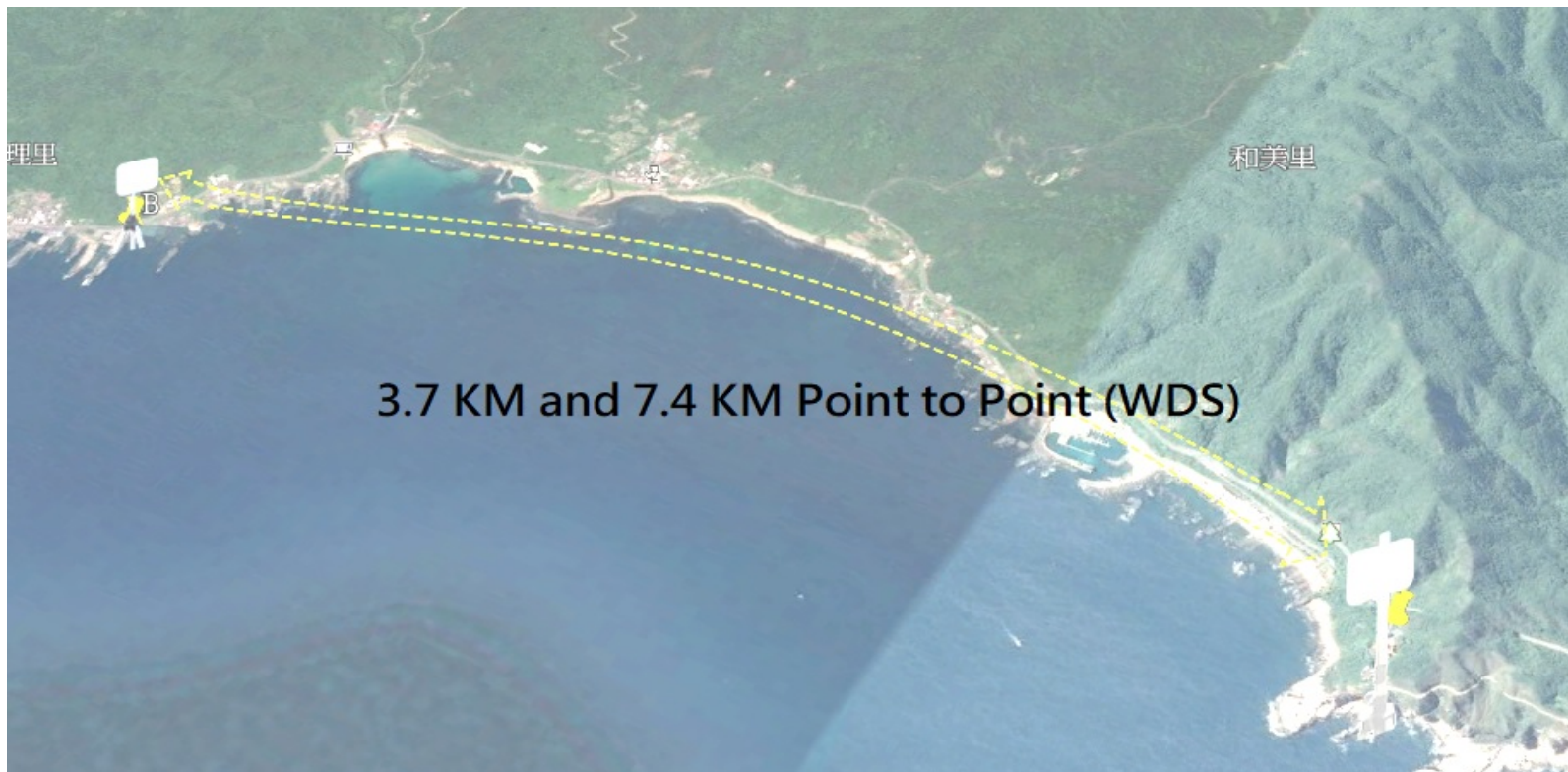
2Radio only 3units

2Radio only 3units



The Tri-band wireless equipment which can improve the deployment cost and benefit of the site

When the OW-500 series is built at a remote relay center, and its two 5GHz Radios can be used as the backbone central backhaul center for the remote areas on both sides. Through the OW-500 tri-band wireless equipment, transmitted back the data from the remote area. The OW-500 Series wireless equipment which can use fewer units to complete the connection. Therefore, both performance and construction costs can be significantly improved.



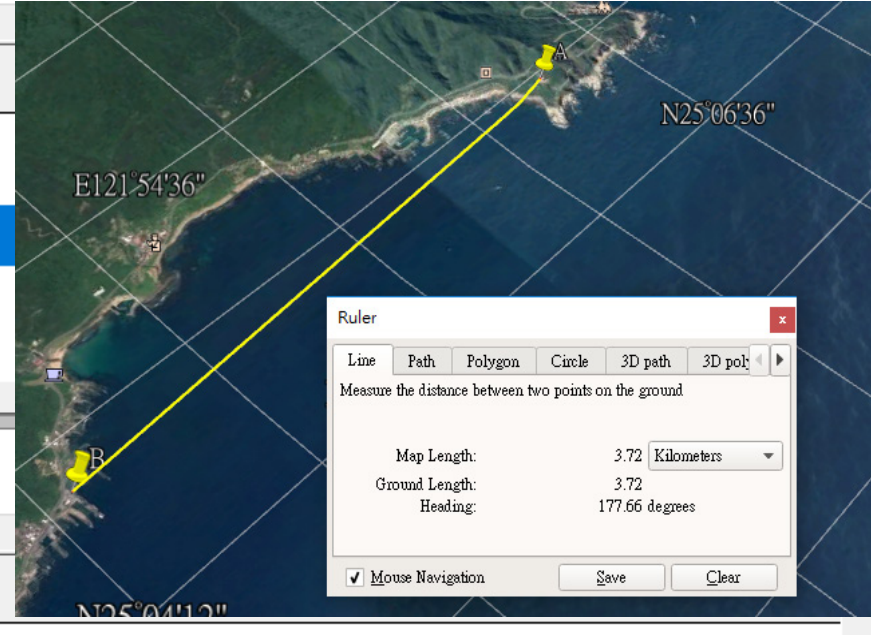
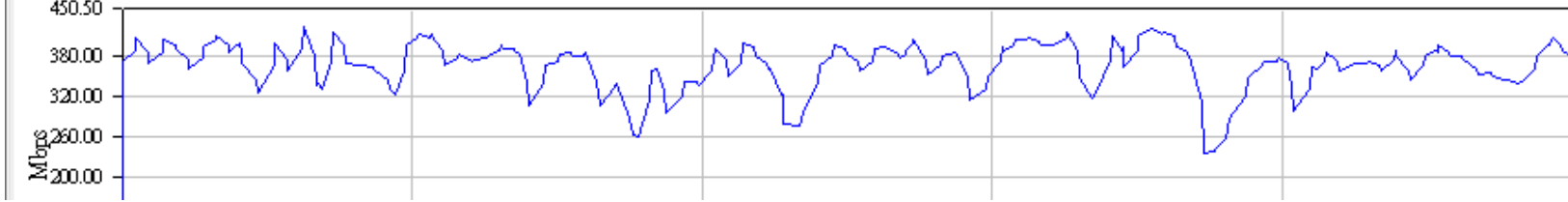
The OW-500 Tri-band series high performance design maintained a high bandwidth of 405Mbps during a 3.7KM (A to B) and when total distance up to 7.4KM (A to B to C), the throughput still can keep up to 309Mbps.

Group	Pair Group Name	Run Status	Timing Records Completed	95% Confidence Interval	Average (Mbps)	Minimum (Mbps)	Maximum (Mbps)	Measured Time (sec)	Relative Precision
All Pairs			304		405.448	92.593	111.732		
	Pair 1 No Group	Finished	78	-0.497 : +0.497	104.781	99.751	111.732	59.553	0.474
	Pair 2 No Group	Finished	76	-0.576 : +0.576	102.073	94.563	105.960	59.565	0.564
	Pair 3 No Group	Finished	75	-0.587 : +0.587	100.118	92.593	103.761	59.929	0.586
	Pair 4 No Group	Finished	75	-0.412 : +0.412	101.105	96.735	106.383	59.344	0.407

Throughput

Group	Pair Group Name	Run Status	Timing Records Completed	95% Confidence Interval	Average (Mbps)	Minimum (Mbps)	Maximum (Mbps)	Measured Time (sec)	Relative Precision
All Pairs			232		309.607	48.691	81.800		
	Pair 1 No Group	Finished	58	-2.078 : +2.078	77.710	48.691	81.549	59.709	2.674
	Pair 2 No Group	Finished	58	-2.156 : +2.156	77.448	49.659	80.645	59.911	2.784
	Pair 3 No Group	Finished	58	-1.856 : +1.856	78.211	50.220	81.800	59.327	2.373
	Pair 4 No Group	Finished	58	-1.976 : +1.976	77.901	48.990	81.549	59.563	2.536

Throughput

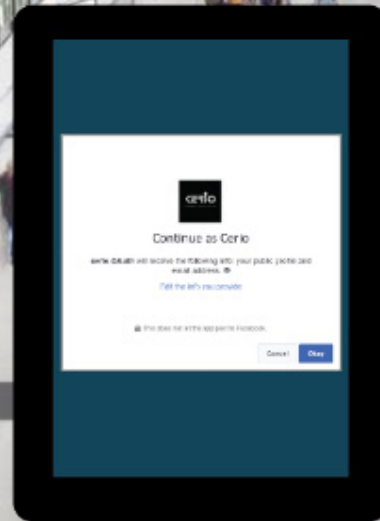


Captive Portal Authentication

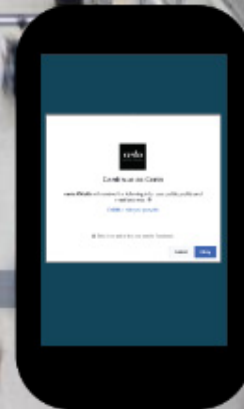
Captive Portal Authentication conveniently allows wireless clients to access the network through a customized web login portal.



Local Account Login



Facebook Login



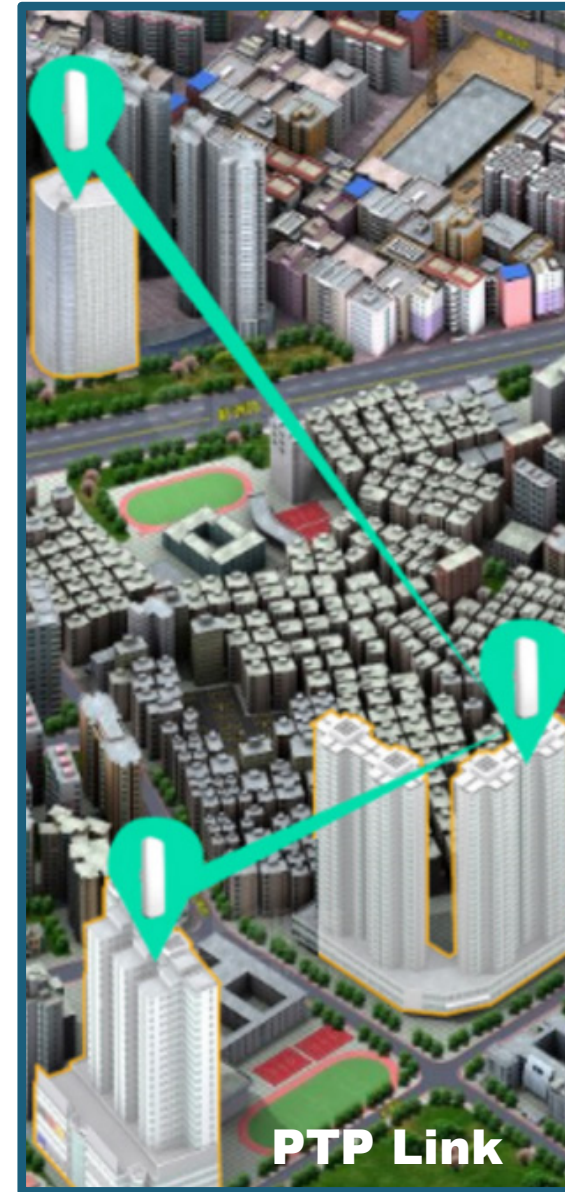
Administrators can deploy a customized Captive Portal with the following login methods

1. Guest Login
2. Local Account Login
3. OAuth2.0 Login

(Facebook/Google/etc.)



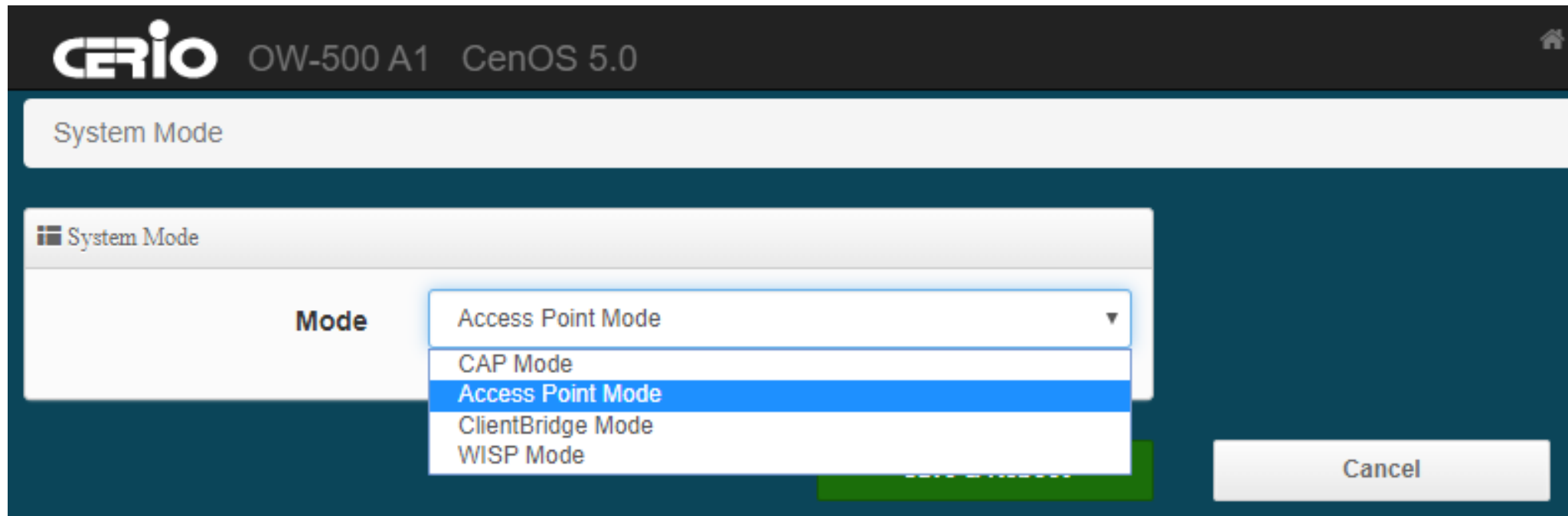
Ideal Deployment



Software Overview



OW-500 Series supports four different Operation Modes: Control Access Point, Access Point Mode with WDS and Captive Portal Authentication, Client Bridge + Repeater Mode, WISP/CPE Repeater AP Mode.



Control Access Point — CERIO

Control Access Point (CAP) Mode's converts the device into a centralized AP management controller. When OW-400/408 A1 is in CAP Mode, it can centrally manage up to 64 AP devices.

The screenshot displays the CERIO web interface for an OW-500 A1 device running CenOS 5.0. The top navigation bar includes the CERIO logo, device model, OS version, and several menu items: System, AP Control, MAN-Mesh Control, Utility, and Status. The AP Control menu is expanded, showing options: Scan Device, Batch Setup, AP Setup, Group Setup, Map Setup, Authentication Profile, and Status. The main content area is divided into two sections. The left section, titled 'Overview', contains a table with the following data:

Parameter	Value
Mode	CAP Mode
System Name	OW-500_A1
System Time	2015/01/01 08:00:54
System Uptime	01:03

The right section shows a 'Memory' gauge with a value of 42%.

Scan AP Device

Filter Device

VLAN#

Default Password

Sort

Update IP Address & Netmask

Control Port

VLAN TAG 1-4096

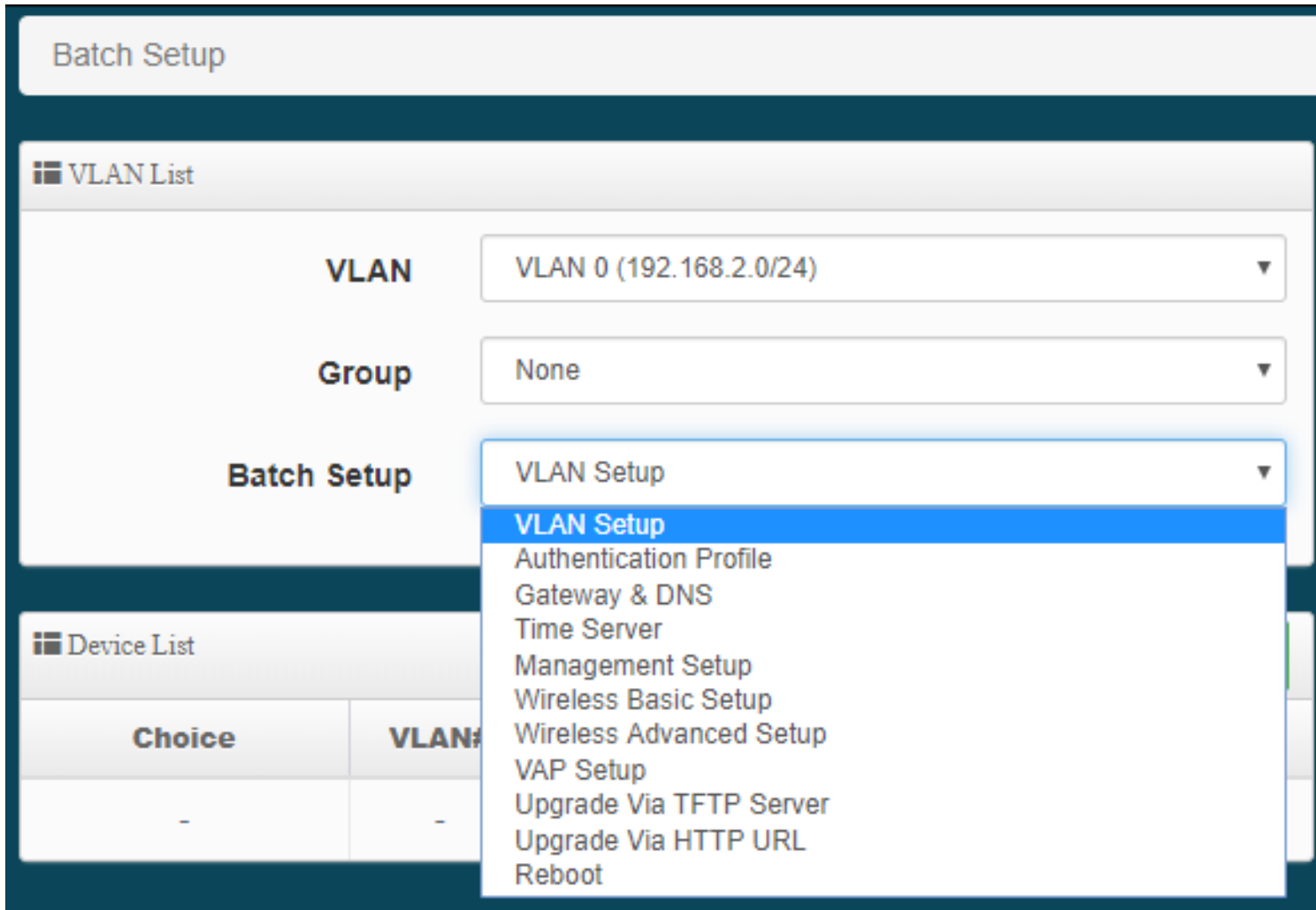
IP Address

Netmask

Scan Result

#	Device	IP Address	MAC Address	Password	Host Name	F/W Version	F/W Date	IP Address	Netmask	Action
-	-	-	-	-	-	-	-	-	-	-

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. Also it supports multi-VLAN centralized management.



The screenshot displays the 'Batch Setup' interface. At the top, there is a 'Batch Setup' header. Below it, the 'VLAN List' section contains three dropdown menus: 'VLAN' (set to 'VLAN 0 (192.168.2.0/24)'), 'Group' (set to 'None'), and 'Batch Setup' (set to 'VLAN Setup'). A dropdown menu is open for 'Batch Setup', listing the following options: 'VLAN Setup' (highlighted), 'Authentication Profile', 'Gateway & DNS', 'Time Server', 'Management Setup', 'Wireless Basic Setup', 'Wireless Advanced Setup', 'VAP Setup', 'Upgrade Via TFTP Server', 'Upgrade Via HTTP URL', and 'Reboot'. Below the 'VLAN List' section, the 'Device List' section is partially visible, showing a table with columns 'Choice' and 'VLAN#'. The table contains one row with dashes in both columns.

Choice	VLAN#
-	-

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.

The screenshot shows the 'VLAN Setup' configuration page. At the top right is a green 'Apply' button. The main configuration area includes:

- VLAN:** A dropdown menu currently set to 'VLAN 0'.
- VLAN Mode:** Radio buttons for 'Enable' (selected) and 'Disable'.
- Access Point 0:** Radio buttons for 'Enable' (selected) and 'Disable'.
- Access Point 1:** Radio buttons for 'Enable' (selected) and 'Disable'.
- Access Point 2:** Radio buttons for 'Enable' and 'Disable'.
- 802.1d Spanning Tree:** Radio buttons for 'Enable' (selected) and 'Disable'.
- Control Port:** Radio buttons for 'Enable' (selected) and 'Disable'.
- IAPP:** A dropdown menu currently set to 'Disable'.

The screenshot shows the 'IP Setup' and 'Ethernet VLAN Tag Setup' configuration pages. The 'IP Setup' section at the top includes:

- Apply:** Radio buttons for 'Enable' (selected) and 'Disable'.
- IP Mode:** Radio buttons for 'Enable' (selected) and 'Disable'.
- IP Address:** A text input field containing '192.168.2.10'.
- Netmask:** A text input field containing '255.255.255.0'.

Below this are two sections for Ethernet VLAN Tag Setup:

- ETH0 VLAN Tag Setup:** Includes radio buttons for 'Enable' (selected) and 'Disable', and a 'VLAN TAG' field with a checkbox and the value '1-4096'.
- ETH1 VLAN Tag Setup:** Includes radio buttons for 'Enable' (selected) and 'Disable', and a 'VLAN TAG' field with a checkbox and the value '1-4096'.

Administrators can enable VLAN Mode, Spanning tree, Control Port capabilities, IAPP Roaming, change IP settings and setup VLAN tag (IEEE 802.1Q) for batches of access points. These changes can be implemented differently for each VLAN, allowing for both centralized and organized control.

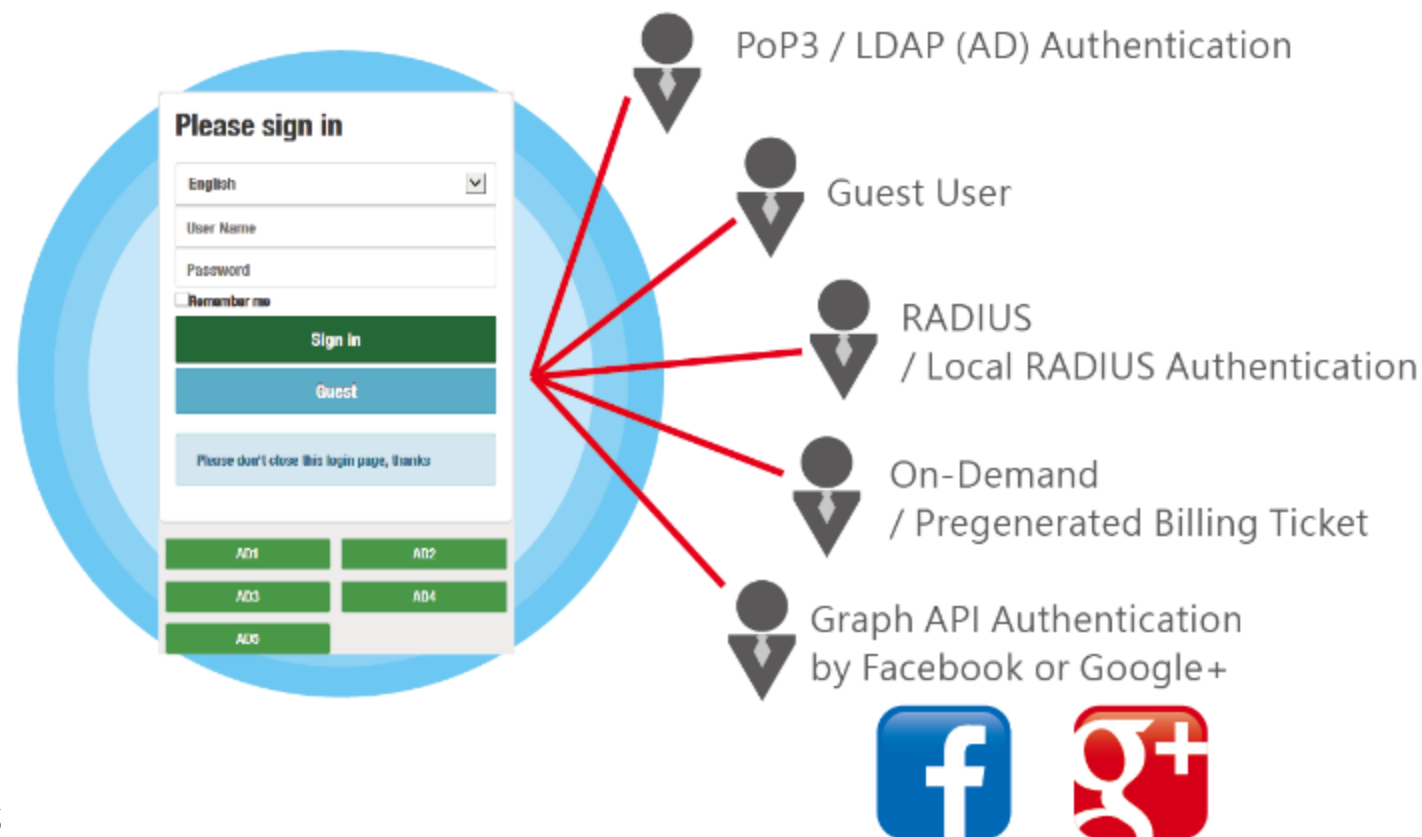
CAP Mode also supports Map Setup function for organizing your AP network. Administrators can create maps by uploading floor plan URLs and dragging APs to the correct location. Once complete, administrators can monitor AP statuses such as uptime, data rates, and connected clients

Map List				Create New Map
#	Name	Description	Action	
1	1F_plan	Location Map for man...	View	▼



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



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.

OAuth 2.0 Provider List Create New Provider			
#	Active	Provider	Action
1	On	Google	Edit ▾
2	On	Facebook	Edit ▾



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

The screenshot shows the 'Guest' configuration interface. It includes the following settings:

- Service**: Enable, Disable
- Login Type**: One Time, Multiple Time
- Count Limit**:
- Login Time**: Minutes
- QoS**: Enable, Disable
- Upload**: Kbps
- Download**: Kbps

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

The screenshot shows the 'Local User List' interface with the following table:

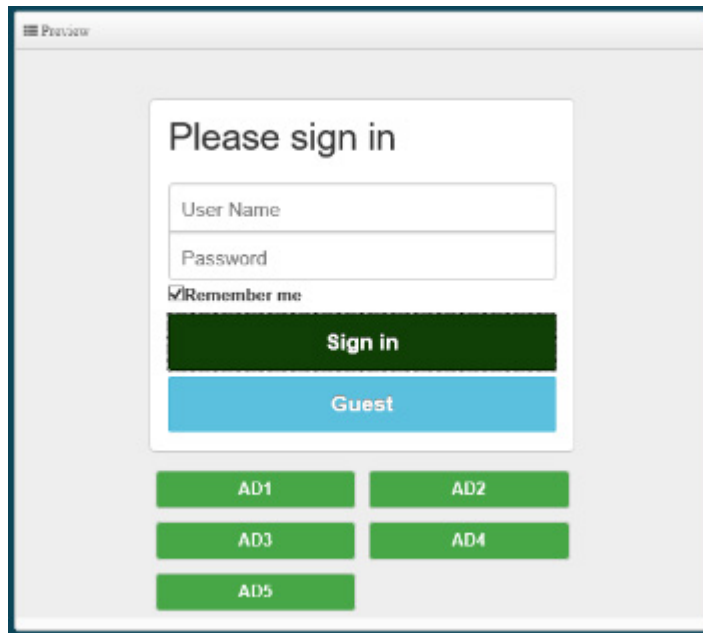
#	Name	Action
1	Test Account 1	Delete
2	Test Account 2	Delete

Customized Login Page

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

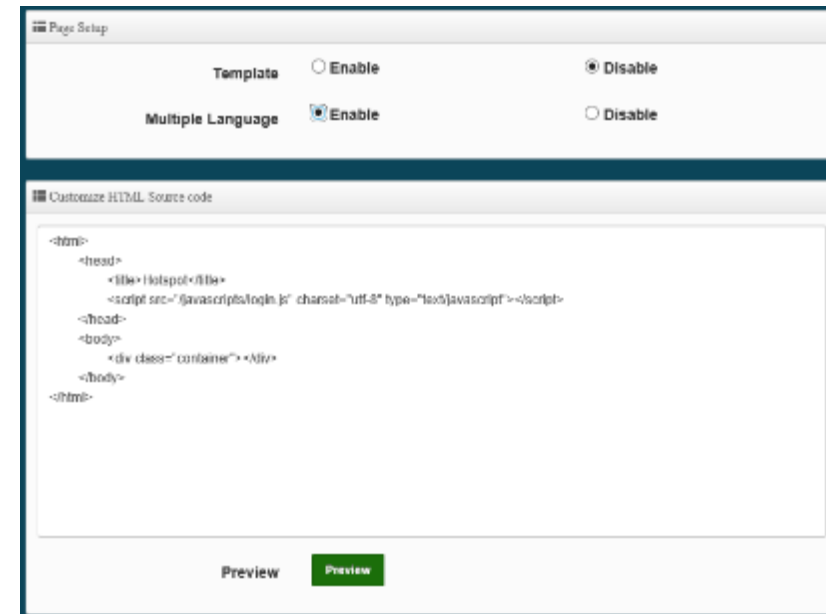
(1.) Promotions **(2.)** Brand Exposure **(3.)** Advertisements **(4.)** Platform for providing Information

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



The screenshot shows a web browser window with a "Preview" tab. The page content is a login form titled "Please sign in". It features two input fields for "User Name" and "Password", a checked "Remember me" checkbox, a dark green "Sign in" button, and a light blue "Guest" button. Below the form are five green buttons labeled "AD1", "AD2", "AD3", "AD4", and "AD5".

Default Template



The screenshot shows a "Page Setup" interface. At the top, there are two rows of radio buttons: "Template" with "Enable" and "Disable" options, and "Multiple Language" with "Enable" and "Disable" options. Below this is a section titled "Customize HTML Source code" containing a text area with the following HTML code:

```
<html>
<head>
  <title> | hotspot | /title>
  <script src="/javascripts/login.js" charset="utf-8" type="text/javascript"></script>
</head>
<body>
  <div class="container"> *N/A*
</body>
</html>
```

At the bottom of the interface, there are "Preview" and "Preview" buttons.

Customize through HTML Code

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.

VLAN Setup / VLAN 0 ▾ / Bandwidth Control

Bandwidth Control

Mode Enable Disable

Airtime Fairness Enable Disable

Total Bandwidth Control

Mode Enable Disable

Upload Kbps

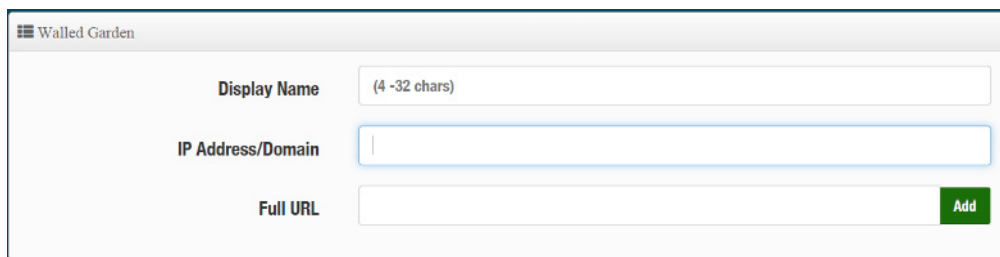
Download Kbps

QoS RuleList

#	Active	Rule Mode	Value1	Value2	Upload(Kbps)	Download(Kbps)	Comment
1	<input type="checkbox"/>	ANY ▾	<input type="text"/>	<input type="text"/>	<input type="text" value="1024"/>	<input type="text" value="1024"/>	<input type="text"/>

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



Walled Garden configuration interface showing fields for Display Name (4 -32 chars), IP Address/Domain, and Full URL, with an Add button.

Enabled Walled Garden Websites



Built-in 802.1x RADIUS

Supports integrated 802.1x RADIUS Server authentication for small to medium network environments. This supports a maximum of 50 built-in RADIUS Users.

#	Name	Action	#	Name	Action
-	-	-	-	-	-

Increased Security- Individual user sessions are encrypted uniquely, which prevents other users from acquiring private information

Cost Efficient – The built-in RADIUS server design removes the need to purchase additional equipment such as external servers.

Virtual LANs & SSIDs

OW-500 Series Tri-Band radio design supports a total of 16 Virtual LANs (VLAN) and 48 SSIDs. Each VLAN supports three SSIDs, one on the 2.4GHz frequency band and one on the 5GHz Radio1 and one on the 5GHz Radio2 frequency band.

VLAN Setup								
VLAN List								
#	VLAN Mode	Flag	IP Address	Netmask	Radio 0	Radio 1	Radio 2	Action
0	On	Native ETH0 Access Control	192.168.2.253	255.255.255.0	2.4G_0_0	5G_0_1	5G_0_2	Network



Supports 16 VLANS (#0 to 15)



Each VLAN supports 3 SSIDs, one for 2.4G and one for 5G Radio1 and one for 5G Radio2

ETH1 VLAN Tag Setup

ETH1 Enable Disable

ETH1 Tag 1-4096

Support up to **4096** Tags. This is a crucial feature that ensures successful directing of packet traffic for VLANs that span across multiple switches.

WDS Setup

WDS Setup Enable Disable

Radio0 ESSID

Radio1 ESSID

Radio2 ESSID

Security Type

PassPhrase

MAC Address

Radio 0

Radio 1

Radio 2

OW-500 Series with **CenOS 5.0** supports **WDS Setup** when operating in **Access Point Mode**

Radio 0		Radio 1		Radio 2	
Enable	MAC Address	Enable	MAC Address	Enable	MAC Address
<input type="checkbox"/>	<input type="text"/>	<input checked="" type="checkbox"/>	<input type="text" value="8c:4d:ea:05:33:1d"/>	<input checked="" type="checkbox"/>	<input type="text" value="8c:4d:ea:05:33:22"/>
<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>

WDS Support

OW-500 Series Access Point mode supports **8** WDS links per radio for a total of **24 links** per device

(8x WDS on the 2.4GHz frequency band)

(8x WDS on the 5GHz Radio1 frequency band)

(8x WDS on the 5GHz Radio2 frequency band)

Supports multi-tags on same WDS channel

VLAN Setup									
VLAN#	Radio 0			Radio 1			Radio 2		
	Native	TAG	TAG ID	Native	TAG	TAG ID	Native	TAG	TAG ID
VLAN 0	<input checked="" type="radio"/>	<input type="checkbox"/>	<input type="text"/>	<input checked="" type="radio"/>	<input type="checkbox"/>	<input type="text"/>	<input checked="" type="radio"/>	<input type="checkbox"/>	<input type="text"/>
VLAN 1	<input type="radio"/>	<input type="checkbox"/>	<input type="text" value="101"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="text" value="101"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="text" value="101"/>
VLAN 2	<input type="radio"/>	<input type="checkbox"/>	<input type="text" value="102"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="text" value="102"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="text" value="102"/>
VLAN 3	<input type="radio"/>	<input type="checkbox"/>	<input type="text" value="103"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="text" value="103"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="text" value="103"/>
VLAN 4	<input type="radio"/>	<input type="checkbox"/>	<input type="text" value="104"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="text" value="104"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="text" value="104"/>
VLAN 5	<input type="radio"/>	<input type="checkbox"/>	<input type="text" value="105"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="text" value="105"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="text" value="105"/>

VLAN Setup / VLAN 0 / Radio 0 / Fast Roaming

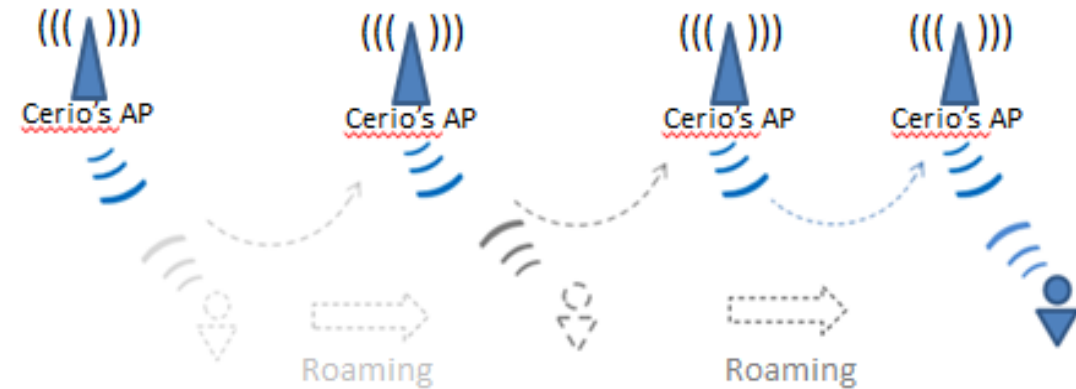
802.11r/802.11k Fast Roaming

Fast Roaming Enable Disable

Fast Roaming Settings

Mobility Domain	<input type="text" value="a1b2"/>
R0 Key Lifetime	<input type="text" value="10000"/>
Reassoc deadline	<input type="text" value="1000"/>
R0/NAS Identifier	<input type="text" value="ap.example.com"/>
R1 Identifier	<input type="text" value="000102030405"/>
R1 Push	<input type="radio"/> Enable <input checked="" type="radio"/> Disable

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.

LED Control

LED OFF Enable Disable

LED Control- User can select LED disable or enable by their preferences or environmental needs

Auto Reboot

Type:

- Disable
- Daily
- Week
- Month

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

Type:

Hour:

Minute:

By Day

Type:

Weekly: Sun Mon Tue Wed Thu Fri Sat

Hour:

Minute:

By Weekly

Type:

Monthly

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
01	02	03	04	05	06	07	08	09	10
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	12	13	14	15	16	17	18	19	20
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	22	23	24	25	26	27	28	29	30
<input type="checkbox"/>									
31									

Hour:

Minute:

By Monthly

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

CERIO

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