

EWS4606

Wireless Controller



Product Overview

Wireless Controller and Unified Access Point offer the integrated affordable solutions for business users in the SMBs and enterprise as well as the wireless solutions fitting to hotel and school users.

With the scalable and distributed architectures, IT managers can easily design and deploy the wireless networks with centralize management capability.

Key Features and Benefits

Scalability with Advanced Distributed Architecture

Easy on your budget, simple to install and use dynamic rate shifting automatically matches the best connection speed. Separate control path and data path gives you flexibility and configurability.

One controller can manage up to 2000 units access point. Through 3+1 redundant allocation, with up to 3 access controllers in one clustering, with 6000 access point in total, which is about 5 to 10 times of the same level of traditional wireless controller.

Load Balance Design

The network is easily scale to accommodate the growth in a cost effective manner. EWS4606 comes with 1+3 clustering design, which eases the customers to seamlessly purchase more Access Control share the increased heavy loading when customer business growth. The device is also equipped with the mechanism to balance wireless traffic in between APs, such as maximum station limitation per SSID.

Fault Tolerance in Redundant AC & AP

The high availability is the key requirement for enterprise/SMB/Campus networks . To achieve the high availability, whenever there's one specific AC failed, all APs managed by this fail AC will detect this fail case and then discover and link to other AC automatically, the Radio and SSID configuration of the managed AP are also synchrony among clustering AC, so the WLAN service and operation can transfer to new AC seamlessly.

While one specific AP failed, the AC will detect this fail case automatically and increase neighbor AP's transmit power to extend neighbor AP coverage, so all stations associated to this failed AP will connect to neighbor AP with enough wireless signal strength and data rate. the wireless service and operation still be available to WLAN user.

Auto connection (Zero-configuration)

Automatically configuration by AP itself when start up. After setting the same SSID in AP, the WDS link can connect/build-up automatically, it provide easy maintain effort and fail-over feature.

Multiple WDS link hop

Connect multiple access points without a wire, up to 4 hop of WDS links.

CAPWAP over WDS

Control and provisioning of wireless access points, now available over WDS. Combining the standard provision protocol (CAPWAP) and flexible WDS backhaul connection, the deployment of WLAN will be more flexible and smart management.

Performance SATA-3 Storage

With Built-in SATA interface to support 2 2.5" or 1 3.5" SATA-3 HDD for security local storage capacity to meet the needs.

Captive portal

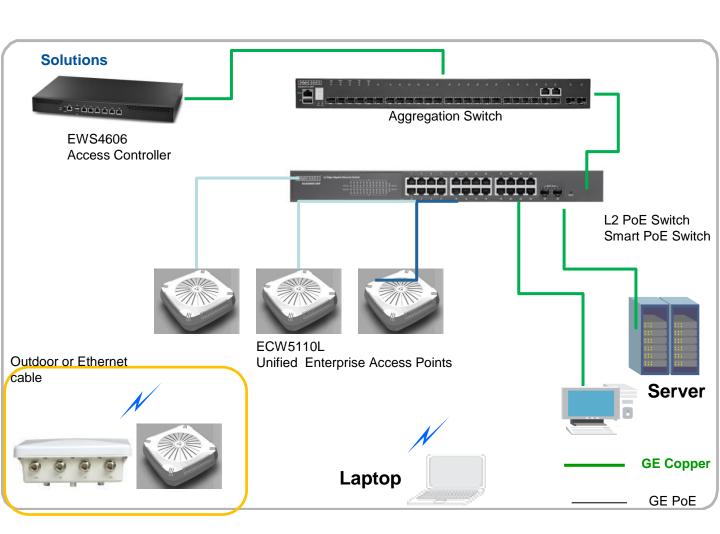
Use Web Browser as an authentication device.
All mobile device with Web browser can be authenticated by AP/AC and zero foot-print and client-side installation before join to WLAN. the authentication server can be AC built-in captive portal or external customer existed captive portal with Disconnect Message (DM) for pre-pay user and Change of Authorization (CoA) for external Captive Portal*.

Hotspot 2.0 compatible

Access points provides 802.11u compliant hotspot 2.0* features in access points to ease connectivity for wireless ISP.

Accounting

Access points provides classic Radius attributor and customization per customer's request is available in the design.





Features

Technical Features

Interfaces

Console RJ45

6 Ports GbE, Support 1 pairs LAN bypass

1 Reset bottom

USB 2.0 (type A) x2

3 LEDs: Power/Diag, Ethernet 1, Ethernet 2

WLAN Management Capability

Up to 2000 APs per controller

Up to 6000 APs per cluster

Access Point Management

Auto Discovery

Auto provisioning

Auto download profile after registration

Auto AP firmware

DTLS encryption

Discovery and keep alive

Central Radio Management

Profile configuration

Radio; VAP; QoS

Radio configuration(802.11abgn, VAP, data rate)

RF management and control.

Auto/manual AP channel planning assignment.

Auto channel adjustment to avoid interference.

Auto/manual RF output power adjustment

Self healing around failed AP(auto cell recovery)

Utilization-based load balance*

WLAN Security

Security

802.1X authentication

802.11i,WEP.WPA/WPA2(enterprise, personal, pre -share key).

Local/remote MAC authentication.

Web based captive portal

Wireless Intrusion Detection System

Rogues AP detection, protection, and report.

Roques client detection and report.

Wireless threat classification and mitigating.

DOS attack detection*.

ACL(access control list).

MAC address black list white list

Management Method

CLI

Telnet /SSH(v2) TFTP

HTTP, HTTPS

Web-based

SNMP v1/v2C/v3

Admin user account management

Password management

Email alarm

IPv4/IPv6 dual stack

VLAN

Configure the VLAN for each SSID, and support the management ${\it VLAN}$

Quality of Service

QoS,CoS and voice support.

802.11e,WMM

IP DSCP mapping

802.1p DSCP mapping wireless user priority

ACL rule

Client access rate constraint*

Maximum concurrent clients association limit

Airtime performance protection*

Bandwidth control

Network Monitor (status and statistics)

Controller status and statistics:

View global (total) status and statistics for wireless controller.

Total number of management APs

Rogues APs

Associated clients

Traffic statistics.

Network utilization.

Clustered peer controller status and statistics

AP status and statistics

Wireless client status and statistics

Remote packet troubleshooting

Roaming

Support L2 roaming and L3 roaming between the ACs in the same cluster

2 Features

Bridge function

Spanning Tree Protocol

_2 ACL

L2 Isolation (prevent STAs communication in the same AP

DHCP Relay

Network Management System

IPv4/IPv6 for SNMP

Provision

MAP, heat maps, & status

Channel info, Rx/Tx rate info, Threshold setting and Alarm

email alarm & report

AP traffic statics for the 2 Ethernet ports

neighbor AP list

radio status[2] radio coverage [3] radio performance & group report

configuration backup

STA session record and statistics

history statistics

Group management

Regulatory and Safety Compliance

EMC: FCC Part 15 (Class A), EN55022 (Class A)

Safety: UL60950, CSA

Operating Specifications and Dimensions

Power: AC input: 100-240V/50~60Hz, DC outpour: 12V/1A

Operating temperature: 0 to 50 degree C Storage temperature: -20 to 70 degree C Dimensions: 4.22 (H) x17.00 D) x32.82 (W)cm

Weight: 3.19lb (1.44Kg) Humidity: 5%~ 95%

