MAIPU
MAKE IT INTELLIGENT

MAIPU

2023 COMMERCIAL CLOUD WI-FI SOLUTION

AGENDA

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IGW500 Series Internet Gateway Hardware Specification

Product Model	IGW500-1500	IGW500-1000	IGW500-500 Q1	IGW500-200 IGW500-200-P	IGW500-100 IGW500-100-P
Performance	1.5Gbps	1.2Gbps	1Gbps	500Mbps	500Mbps
Power Supply	Single AC Power	Single AC Power	Single AC Power	Built-in Single AC Power (IGW500-200) External Adaptor (IGW500-200-P)	Built-in Single AC Power (IGW500-100) External Adaptor (IGW500-100-P)
Interfaces	2*GE SFP+8*GE RJ45	2*GE SFP+8*GE RJ45	2*GE SFP+8*GE RJ45	12*GE RJ45	5*GE RJ45
WAN Ports	1-4	1-4	1-4	1-2	1-2
FLASH	8G	8G	4G	256M	256M
Memory	4G	4G	1G	512M	512M
PoE Port	N/A	N/A	N/A	8*PoE Out (IGW500-200-P)	4*PoE Out (IGW500-100-P)
PoE Budget	N/A	N/A	N/A	100W (IGW500-200-P)	60W (IGW500-100-P)
PoE Standard	N/A	N/A	N/A	802.11af/at	802.11af/at
Working Mode	Gateway Mode Controller Mode	Gateway Mode Controller Mode	Gateway Mode Controller Mode	Gateway Mode Controller Mode	Gateway Mode Controller Mode
Managed AP No. (Gateway Mode)	128	64	32	16	16
Managed AP No. (Controller Mode)	512	256	128	64	32
Controller HA	1+1 Backup	1+1 Backup	1+1 Backup	1+1 Backup	1+1 Backup

IGW500 Series Highlight - Rich Features Combined

Controller Mode

Gateway Mode

Multiple WAN

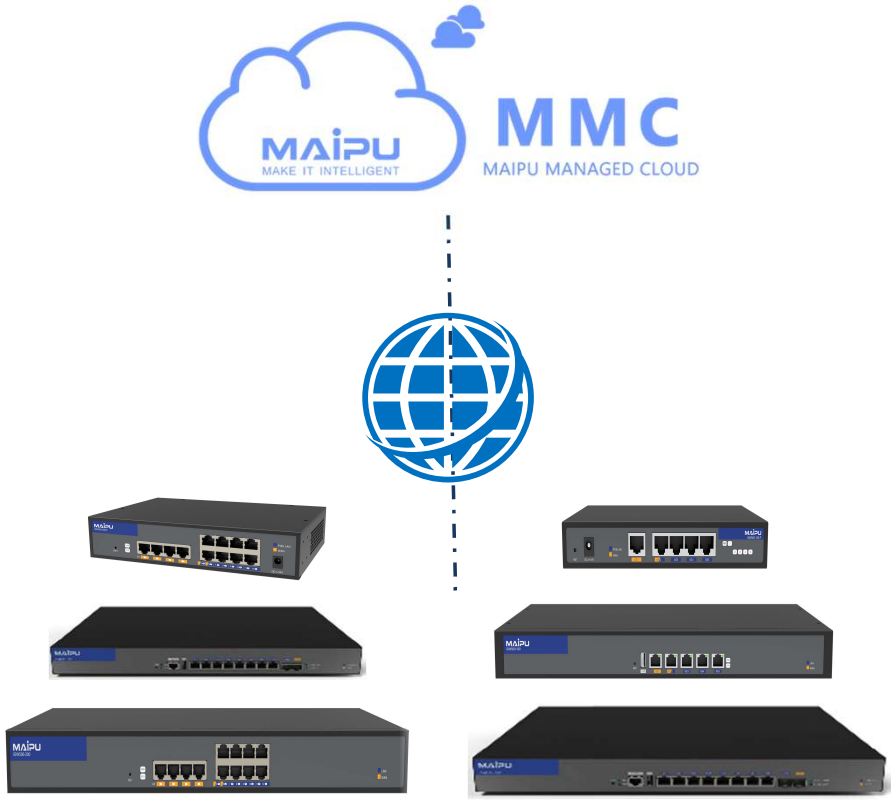
High Availability

Flow Control

Anti-attack

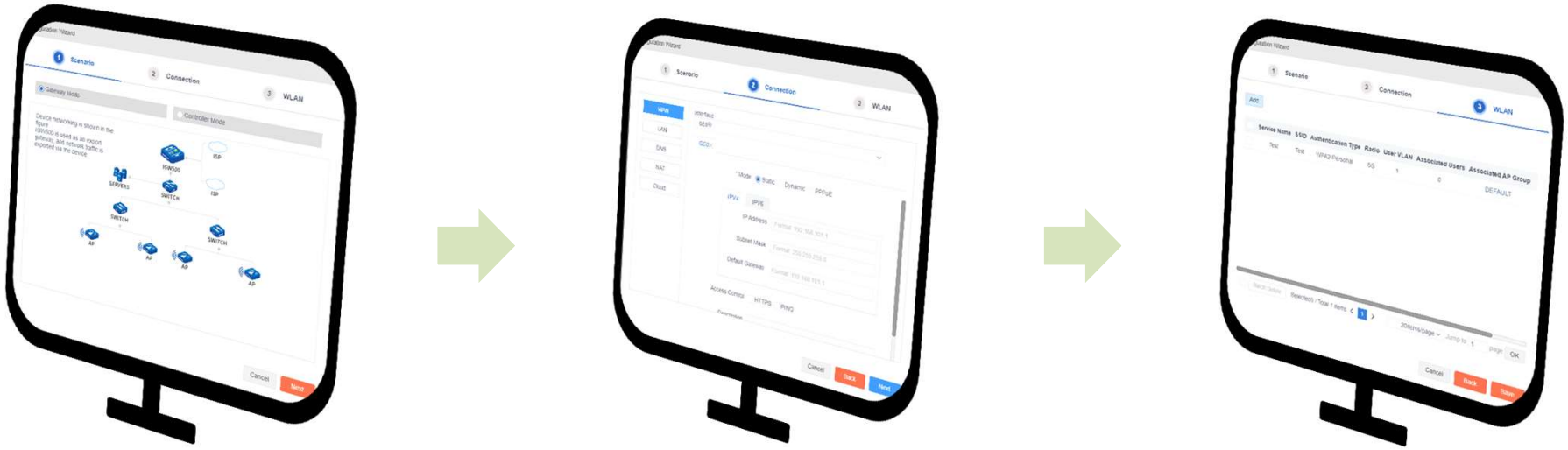
Authentication

IPSec VPN



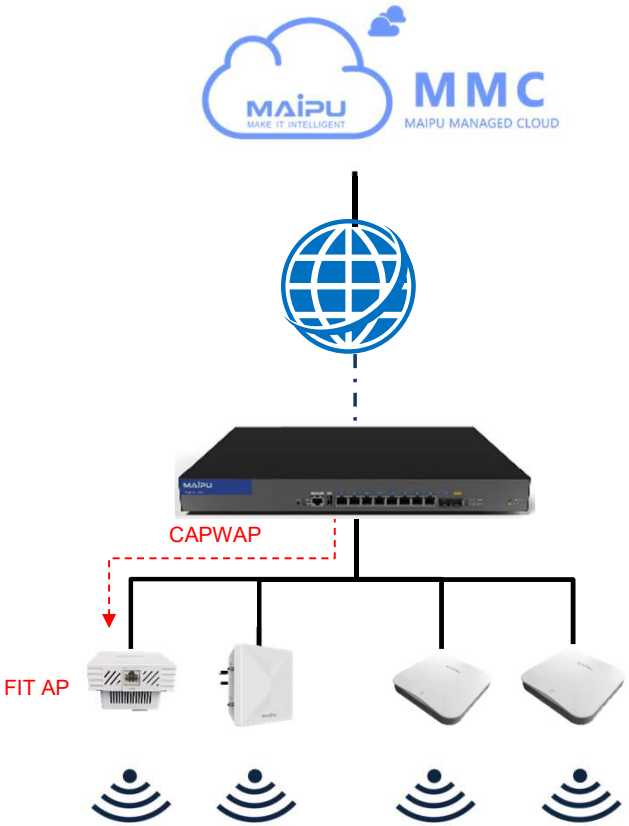
IGW500 Series Highlight – Quickly & Easy Deployment

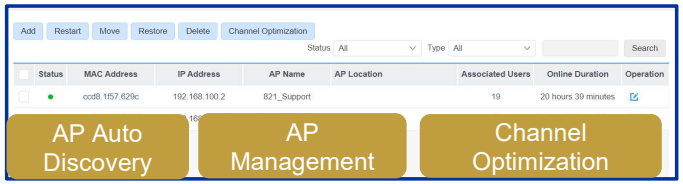
Wireless service provisioning can be done through the configuration wizard with a few operation steps.

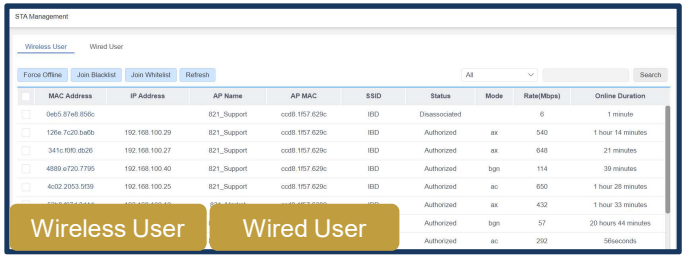


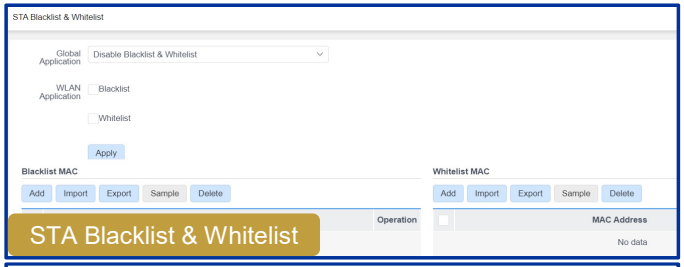
Scenario Configuration | **Networking Configuration** | **WLAN Configuration**

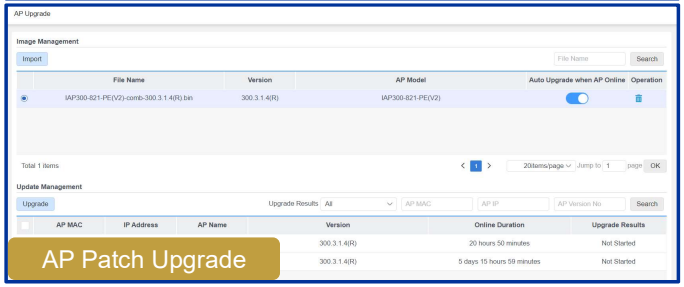
IGW500 Series Feature – Access Controller

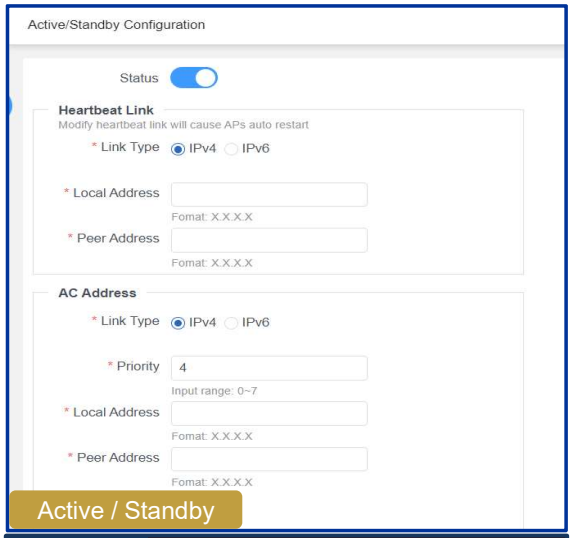


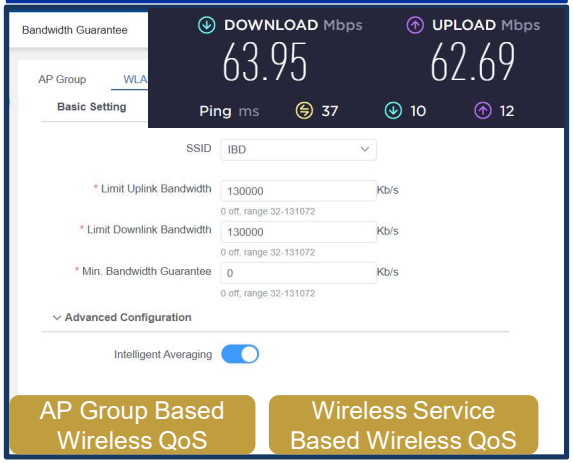




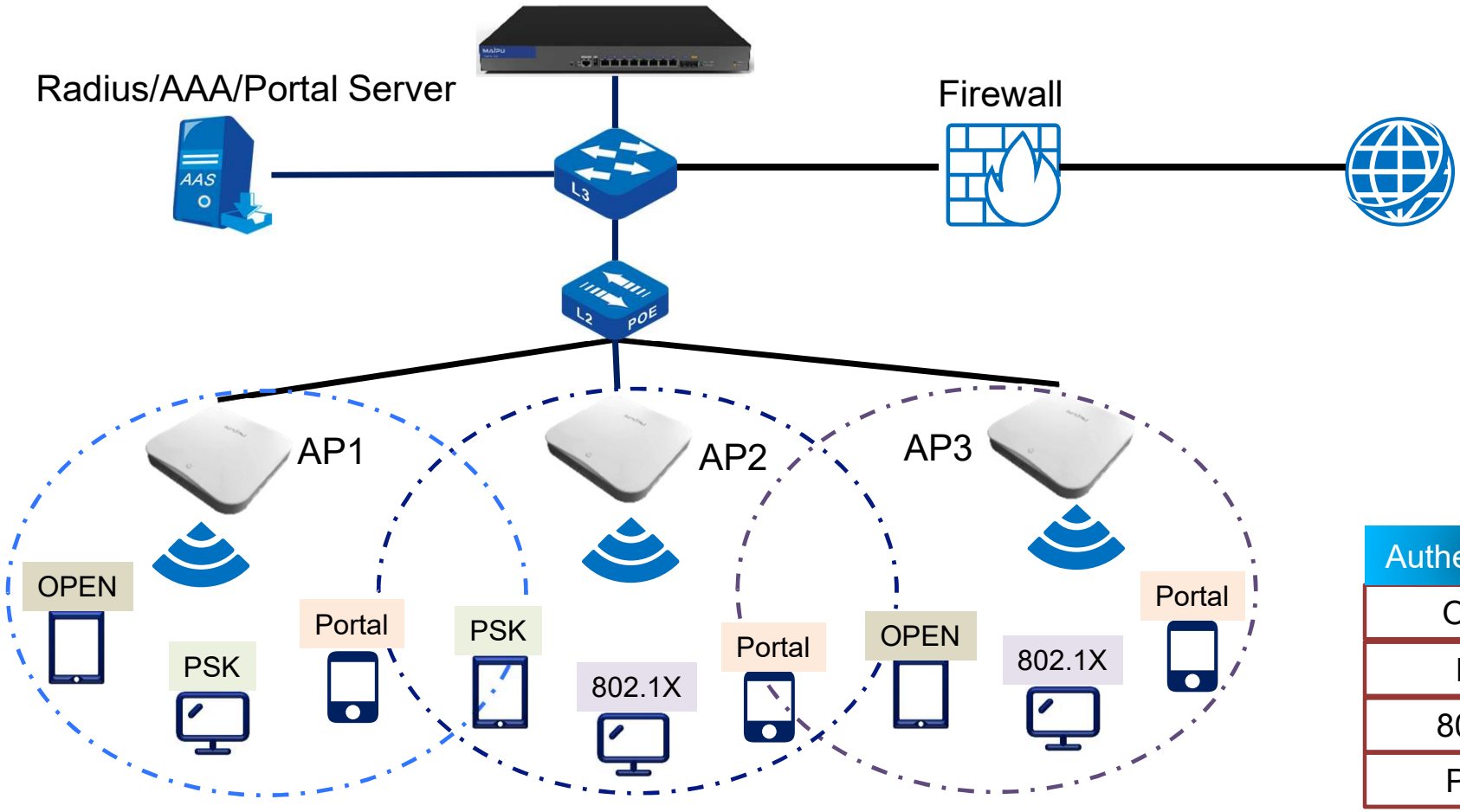






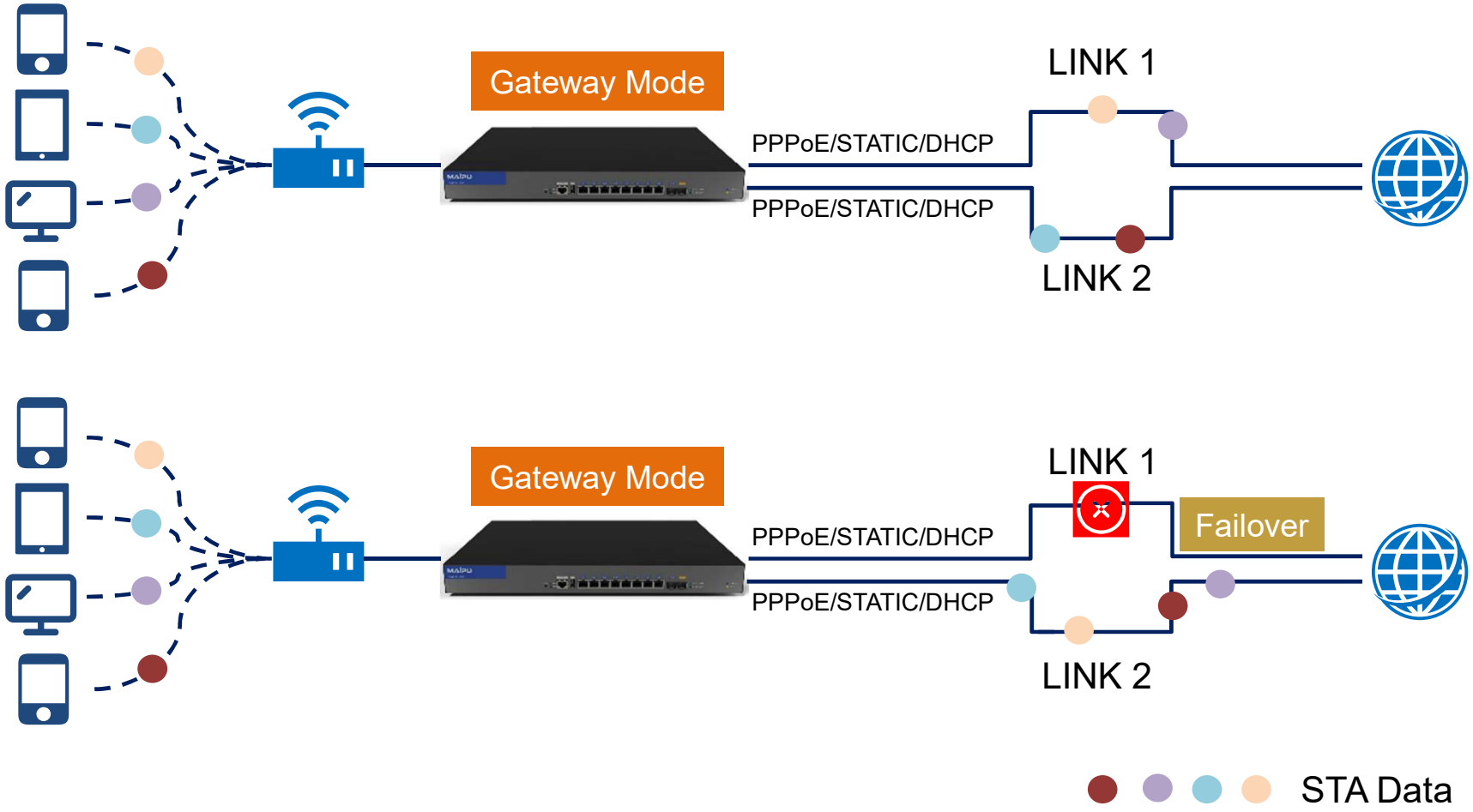


IGW500 Series Feature - Rich Authentication Methods

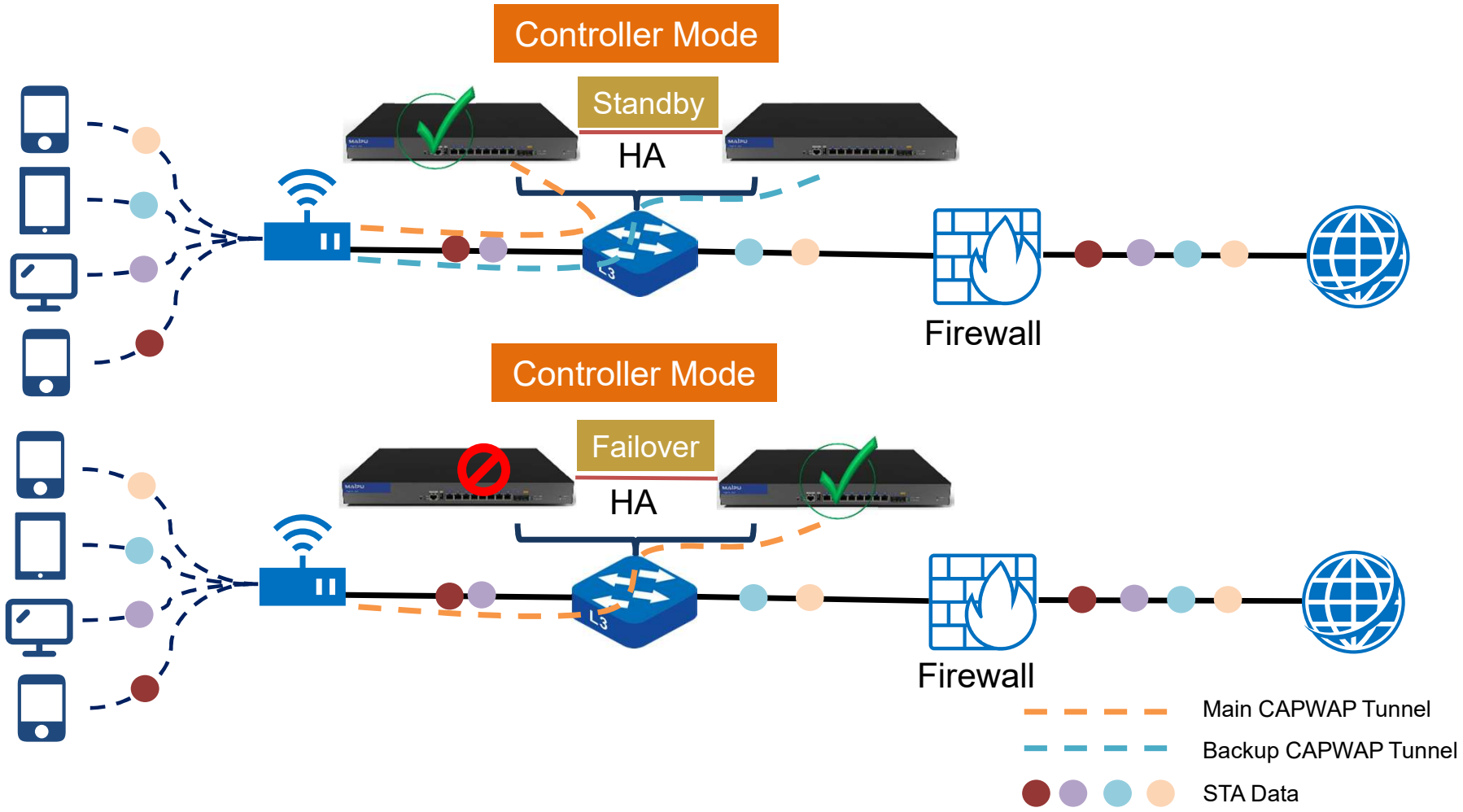


Authentication
OPEN
PSK
802.1X
Portal

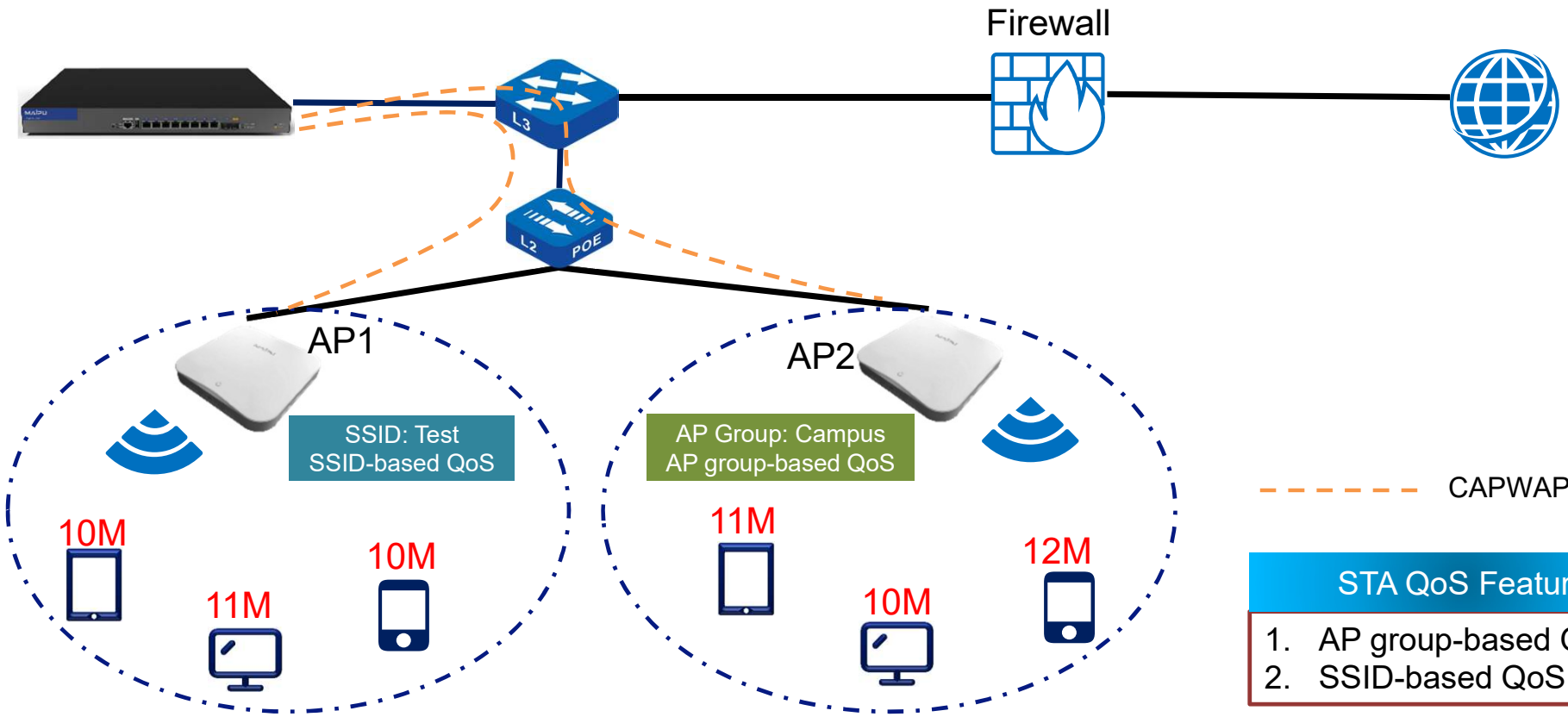
IGW500 Series Feature – Smart Multi-WAN Failover



IGW500 Series Feature – Intelligent High Availability



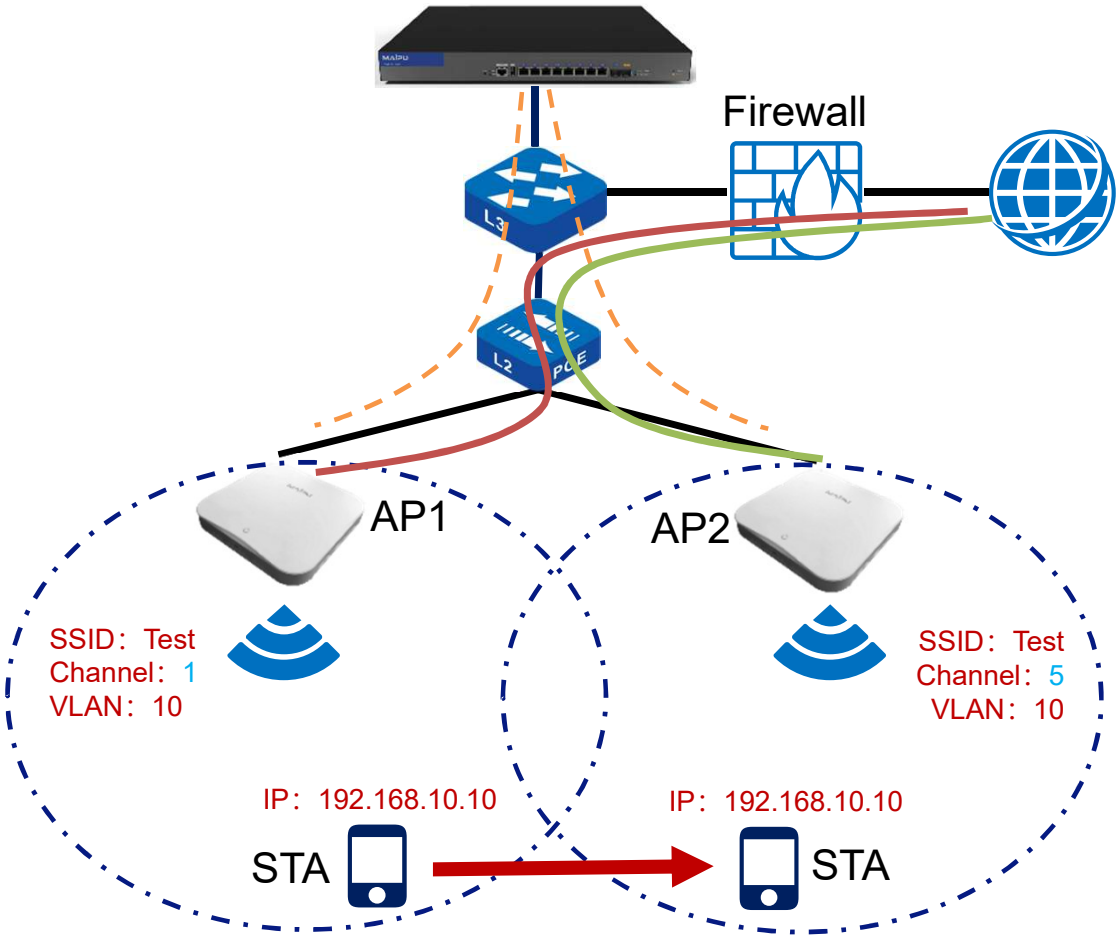
IGW500 Series Feature – STA QoS



STA QoS Feature

1. AP group-based QoS
2. SSID-based QoS

IGW500 Series Feature – L2 Roaming

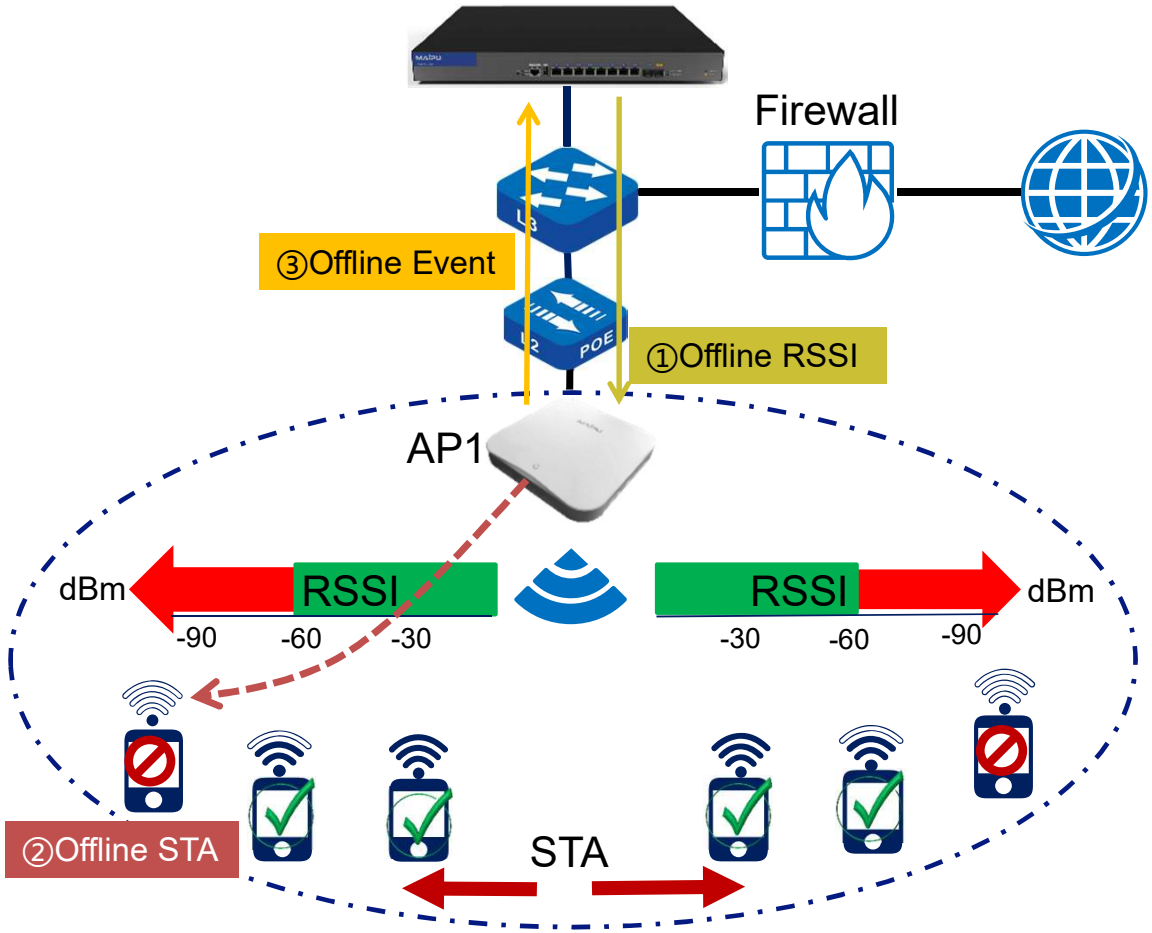


L2 Roaming Feature

1. IP address of STA cannot be changed
2. Authorization of STA cannot be changed

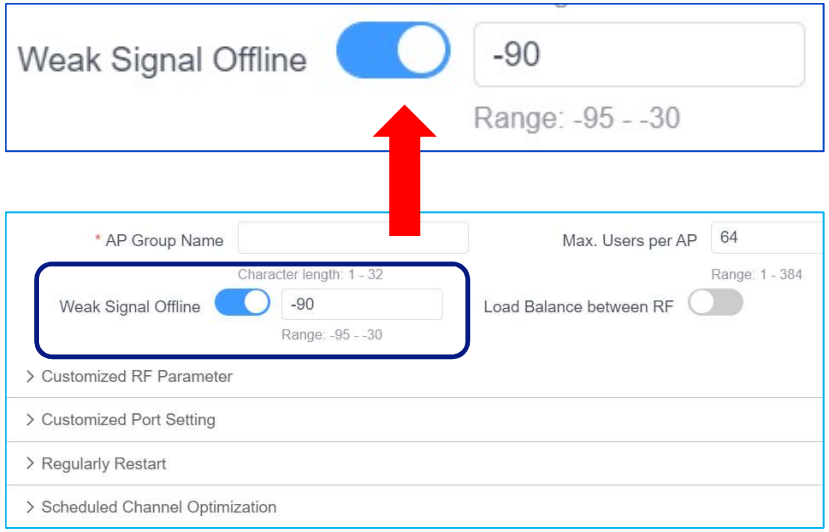
CAPWAP Tunnel
STA Data
Roaming STA Data

IGW500 Series Feature – Weak Signal Offline

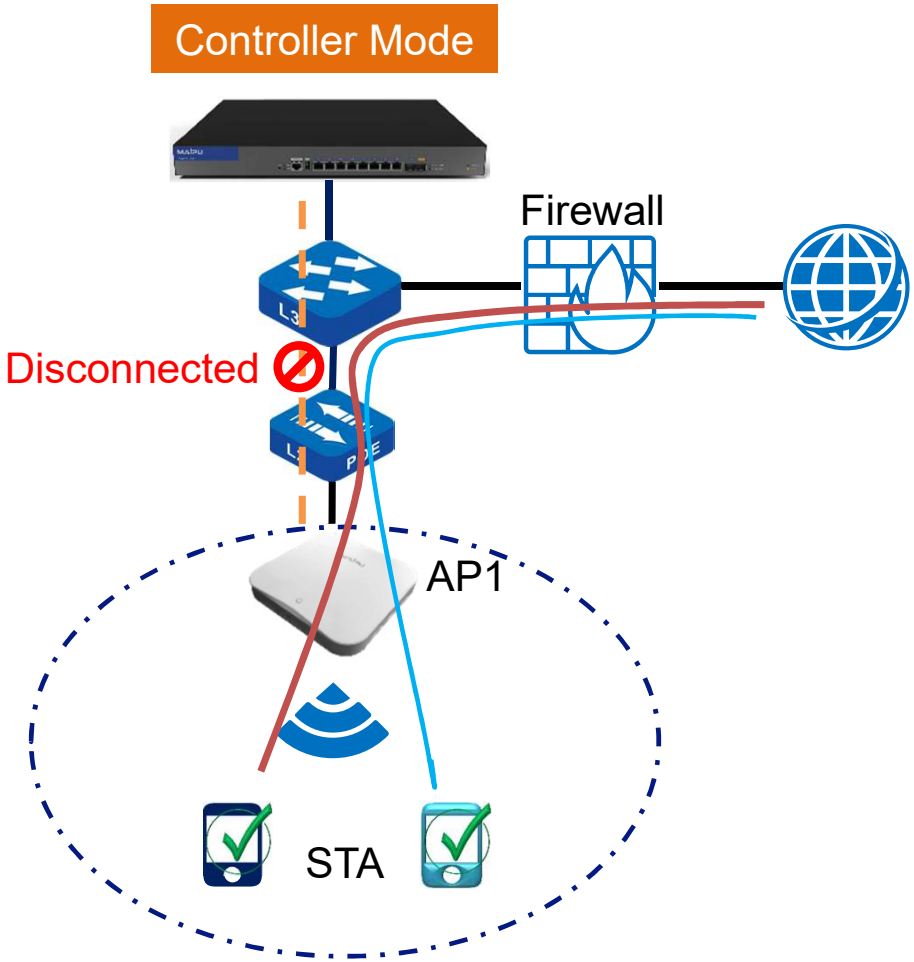


Weak Signal Offline Feature

1. Enable/disable by one key
2. Manually set offline RSSI



IGW500 Series Feature – AP Escape

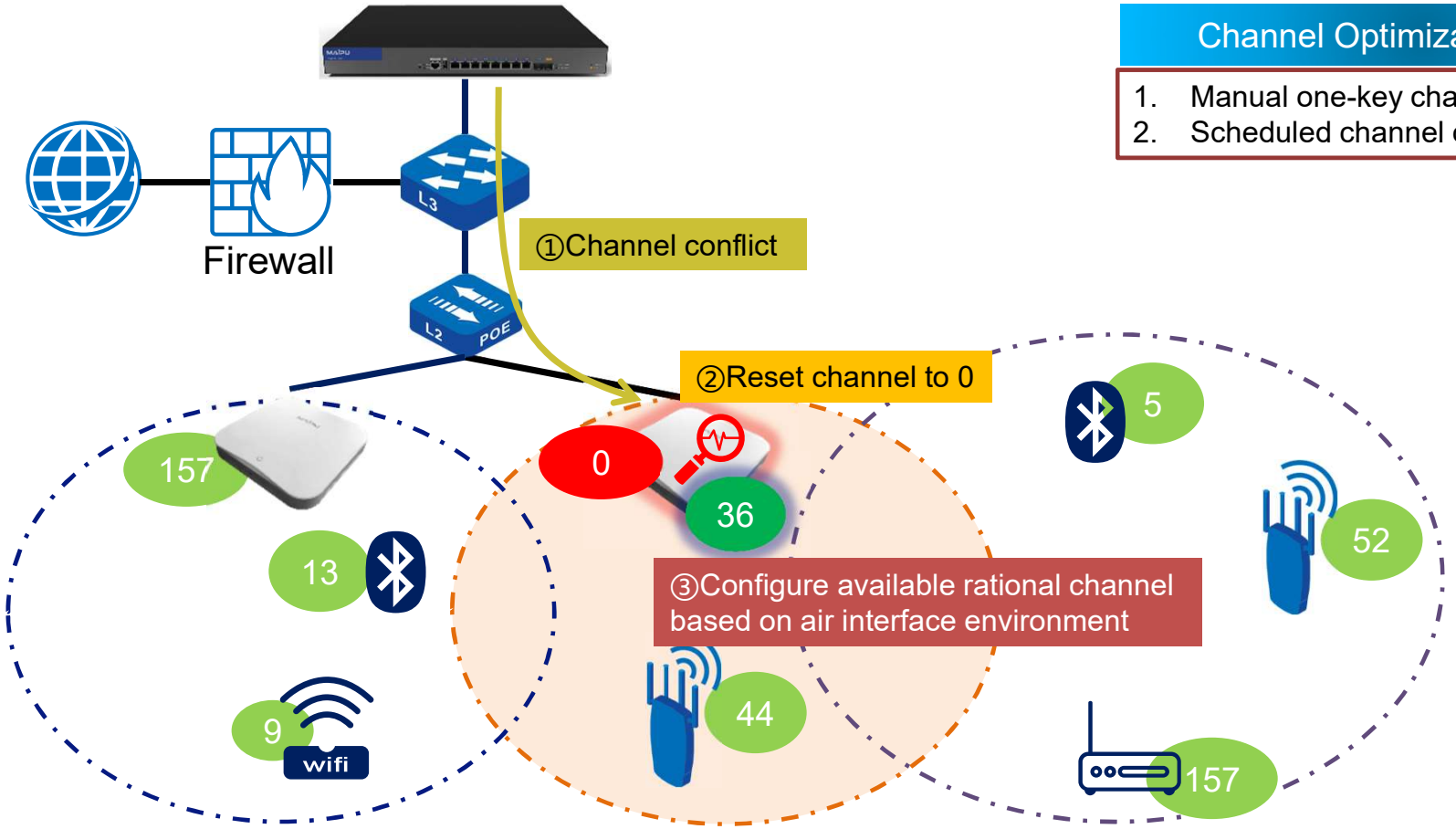


AP Escape Feature

Enable this function, when the CAPWAP tunnel between the AP and AC is disconnected, the AP can still work independently and continuously, and provide services for wireless online users.

CAPWAP Tunnel
CAPWAP Connected STA Data
CAPWAP Disconnected STA Data

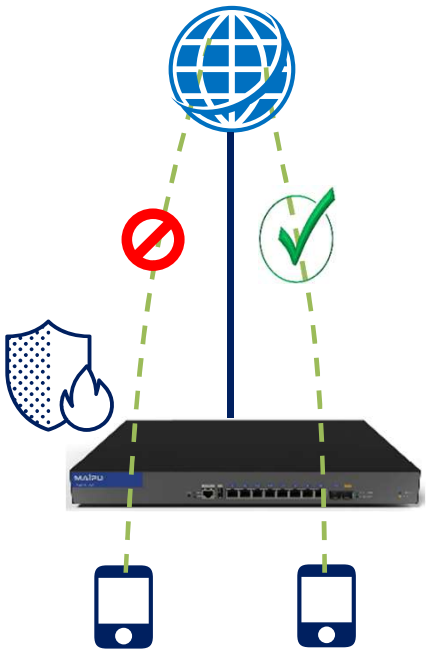
IGW500 Series Feature – Channel Optimization



Channel Optimization Feature

1. Manual one-key channel optimization
2. Scheduled channel optimization

IGW500 Series Feature – Anti-attack for abnormal packets



Providing simplified security protection capabilities for SMB customers

Logs

Attack Type

Abnormal Packet Attack

- fraggle
- fragment
- ping of death
- smurf
- impossible
- Source MAC all 0
- tear-drop
- winnuke
- TCP abnormal
- UDP abnormal
- land
- traceroute
- IP options

ICMP Control

- Prohibit fragment packet
- Prohibit redirection packet
- Prohibit unreachable packet
- Prohibit echo response packet
- Prohibit source suppression packet
- Prohibit echo request packet
- Prohibit routing notification packet
- Prohibit routing request packet
- Prohibit timeout packet
- Prohibit parameter problem packet
- Prohibit timestamp request packet
- Prohibit timestamp response packet
- Prohibit info. request packet
- Prohibit info. response packet
- Prohibit address mask request packet
- Prohibit address mask response packet
- ICMP packet size limit

ICMPv6 Management and Control

- Prohibit redirection packet
- Prohibit unreachable packet

Fraggle Packet | Fragment Packet | Smuf Packet | ICMP Packet

Abnormal TCP Packet | Abnormal UDP Packet | Ping to death Packet | Tear-drop Packet

AGENDA

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IAP300 Series Access Point Hardware Specification

Product Model	IAP300-815-PE	IAP300-815-PE	IAP300-821-PE	WA2600-826-PTE
Hardware Version	V2	V3	V2	V2
Throughput	1755Mbps (2.4GHz 2*2: 574Mbps, 5GHz 2*2: 1201Mbps)	1775Mbps (2.4GHz 2*2: 574Mbps, 5GHz 2*2: 1201Mbps)	1775Mbps (2.4GHz 2*2: 574Mbps, 5GHz 2*2: 1201Mbps)	1775Mbps (2.4GHz 2*2: 574Mbps, 5GHz 2*2: 1201Mbps)
RF Bandwidth	802.11ax: HT80, HT40, HT20 802.11ac: HT80, HT40, HT20 802.11n: HT40, HT20	802.11ax: HT80, HT40, HT20 802.11ac: HT80, HT40, HT20 802.11n: HT40, HT20	802.11ax: HT80, HT40, HT20 802.11ac: HT80, HT40, HT20 802.11n: HT40, HT20	802.11ax: HT80, HT40, HT20 802.11ac: HT80, HT40, HT20 802.11n: HT40, HT20
Installation Mode	Indoor Wall-mounted	Indoor Wall-mounted	Indoor Ceiling-mounted	Outdoor Pole-mounted
Wireless Standard	802.11ax(Wi-Fi6)	802.11ax(Wi-Fi6)	802.11ax(Wi-Fi6)	802.11ax(Wi-Fi6)
MU-MIMO	2*2@2.4GHz, 2*2@5GHz	2*2@2.4GHz, 2*2@5GHz	2*2@2.4GHz, 2*2@5GHz	2*2@2.4GHz, 2*2@5GHz
WAN Port	1*1000M RJ45(PoE)	1*1000M RJ45(PoE)	1*1000M RJ45(PoE)	1*1000M RJ45 Combo (PoE) (RJ45+SFP)
LAN Port	1*1000M RJ45	4*1000M RJ45	1*1000M RJ45	1*1000M RJ45
Power Consumption	≤10W	≤10W	≤13W	≤25W
Working Mode	FIT	FIT	FIT	FIT
Transit Power (mW)	≤100mW (20dbm)	≤100mW (20dbm)	≤100mW (20dbm)	≤500mW (27dbm)
Multiple SSIDs	8 (2.4GHz+5GHz)	8 (2.4GHz+5GHz)	8 (2.4GHz+5GHz)	8 (2.4GHz+5GHz)
STA Authentication	OPEN/Portal/PSK/802.1X	OPEN/Portal/PSK/802.1X	OPEN/Portal/PSK/802.1X	OPEN/Portal/PSK/802.1X
Dimension(L * W * H)	86mm*86mm*54mm	162mm*86mm*45mm	180mm*180mm*31mm	275mm*230mm*80mm

IAP300 Series Cloud Managed Access Point

- 802.11ax 1800Mbps
- 2*2 MU-MIMO
- Wall-Mounted

IAP300-815

- 802.11ax 1800Mbps
- 2*2 MU-MIMO
- Ceiling-Mounted

IAP300-821

- 802.11ax 1800Mbps
- 2*2 MU-MIMO
- Pole-Mounted

IAP300-826

FIT AP(Controller by IGW500 Series Internet Gateway)

IAP300-815-PE(V2) Wi-Fi6 Wall-Mounted AP

IAP300-815-PE(V2)

Specification	IAP300-815-PE(V2)
Performance(Mbps)	1800Mbps
Mount Mode	Wall-Mounted
Wireless Standard	802.11a/b/g/n/ac/ax
Working Mode	Fit Mode
1000M Base-T WAN	1*1000M Combo (RJ45 PoE + SFP)
1000M Base-T LAN	1*1000M RJ45
MU-MIMO	2:2*2
Dual Band	2.4G&5G
PoE Standard	802.3af
RF Bandwidth	802.11ax: HT80, HT40, HT20 802.11ac: HT80, HT40, HT20 802.11n: HT40, HT20
Management	Internet Gateway, Cloud

IAP300-815-PE(V3) Wi-Fi6 Wall-Mounted AP

IAP300-815-PE(V3)

Specification	IAP300-815-PE(V3)
Performance(Mbps)	1800Mbps
Mount Mode	Wall-Mounted
Wireless Standard	802.11a/b/g/n/ac/ax
Working Mode	Fit Mode
1000M Base-T WAN	1*1000M RJ45(PoE)
1000M Base-T LAN	4*1000M RJ45
MU-MIMO	2:2*2
Dual Band	2.4G&5G
PoE Standard	802.3af
RF Bandwidth	802.11ax: HT80, HT40, HT20 802.11ac: HT80, HT40, HT20 802.11n: HT40, HT20
Management	Internet Gateway, Cloud

IAP300-821-PE(V2) Wi-Fi6 Ceiling-Mounted AP

IAP300-821-PE(V2)

Specification	IAP300-821-PE(V2)
Performance(Mbps)	1800Mbps
Mount Mode	Ceiling-Mounted
Wireless Standard	802.11a/b/g/n/ac/ax
Working Mode	Fit Mode
1000M Base-T WAN	1*1000M RJ45(PoE)
1000M Base-T LAN	1*1000M RJ45
MU-MIMO	2:2*2
Dual Band	2.4G&5G
PoE Standard	802.3af
RF Bandwidth	802.11ax: HT80, HT40, HT20 802.11ac: HT80, HT40, HT20 802.11n: HT40, HT20
Management	Internet Gateway, Cloud

IAP300-826-PTE(V2) Wi-Fi6 Outdoor Pole-Mounted AP

IAP300-826-PTE(V2)

Specification	IAP300-826-PTE(V2)
Performance(Mbps)	1800Mbps
Mount Mode	Outdoor Pole-Mounted
Wireless Standard	802.11a/b/g/n/ac/ax
Working Mode	Fit Mode
1000M Base-T WAN	1*1000M SFP 1*1000M RJ45 Combo (PoE)
1000M Base-T LAN	1*1000M RJ45
MU-MIMO	2:2*2
Dual Band	2.4G&5G
PoE Standard	802.3at
RF Bandwidth	802.11ax: HT80, HT40, HT20 802.11ac: HT80, HT40, HT20 802.11n: HT40, HT20
Management	Internet Gateway, Cloud

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MyPower Series Cloud Managed Switch

MAIPU
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L3 10G Fiber Aggregation

- 24/48*10G SFP+ Interfaces
- 2*40G QSFP Interfaces(IS580-26XF)
- Static/RIP/OSPF/BGP L3 Protocol
- Dual Power Supply

L3 Gigabit Fiber Aggregation

- 24*1G SFP Interfaces
- 4*10G SFP+ Interfaces
- Static/RIP/OSPF/BGP L3 Protocol
- Dual Power Supply

L3 Lite Gigabit Access

- 8/24/48*1G RJ45 Interfaces
- 4*10G SFP+ Interfaces
- Static L3 Protocol
- 120W/380W/760W PoE Budget
- Single Power Supply

L2 Lite Gigabit Access

- 8/24*1G RJ45 Interfaces
- 2/4*1G SFP Interfaces
- 120W/380W PoE Budget
- Single Power Supply

IS580-26XF

IS580-26XF
- 24*10G SFP+
- 2*40G QSFP
- Dual Power Slots
- Dual FAN Slots

IS580-48XF

IS580-48XF
- 48*10G SFP+
- Dual Power Slots
- Dual FAN Slots

IS660-04
- Dual Control Engines
- Four Line Card Slots
- Dual Power Slots
- Dual FAN Slots

S4230-36GTXF

S4230-36GTXF
- 24*1G SFP
- 4*10G SFP+
- 8*1000M RJ45
- Dual Power Supply

S4330-54GXF

S4330-54GXF
- 48*1G SFP
- 4*10G SFP+
- Dual Power Supply

MAIPU MAKE IT INTELLIGENT MMC MAIPU MANAGED CLOUD

S3330-12TXF

S3330-12TXF
- 8*1G RJ45
- 4*10G SFP+
- Single Power Supply

S3230-28TXF

S3230-28TXF
- 24*1G RJ45
- 4*10G SFP+
- Single Power Supply

S3230-54TXF

S3230-54TXF
- 48*1G RJ45
- 4*10G SFP+
- Dual Power Supply

S3330-12TXP

S3330-12TXP
- 8*1G SFP
- 4*10G SFP+
- 120W PoE Budget
- Single Power Supply

S3230-28TXP

S3230-28TXP
- 24*1G SFP
- 4*10G SFP+
- 380W PoE Budget
- Single Power Supply

S3230-54TXP

S3230-54TXP
- 48*1G SFP
- 4*10G SFP+
- 760W PoE Budget
- Single Power Supply

IS230-10TF/10TP

IS230-10TF/10TP
- 8*1G RJ45
- 2*1G SFP
- 120W PoE Budget
- Single Power Supply

IS230-18TF/28TF

IS230-18TF/28TF
- 16/24*1G RJ45
- 2/4*1G SFP
- Single Power Supply

IS230-20TP/28TP

IS230-20TP/28TP
- 16/24*1G RJ45
- 4*1G SFP
- 260W/380W PoE Budget
- Single Power Supply

MyPower Series Cloud Managed Router

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MP3900X Series

- Aggregation Router for Branch
- Static/RIP/OSPF/BGP Routing
- MPLS/IPSec/GRE/L2TP VPN
- SDH/Ethernet/4G/5G Line Cards

MP2900X Series

- Access Router for enterprise Large Office
- Static/RIP/OSPF/BGP Routing
- MPLS/IPSec/GRE/L2TP VPN
- SDH/Ethernet/4G/5G Line Cards

MP1900X Series

- Access Router for enterprise Medium Office
- Static/RIP/OSPF/BGP Routing
- MPLS/IPSec/GRE/L2TP VPN
- SDH/Ethernet/4G/5G Line Cards

MP1800X series

- Access Router for enterprise Small Office
- Static/RIP/OSPF/BGP Routing
- MPLS/IPSec/GRE/L2TP VPN
- Built-in 4G Modem

MP3900X-08
- One SPU Slot, Upto 4*10G SFP+
- 6*RM2B expansion slots
- 2*RM3E expansion slots
- Two Power Slots

MP3900X-06
- 8-Port 1G Combo WAN
- 6*RM2B expansion slots
- Fixed Dual AC

MP2900X-24D
- 4-Port 1G WAN
- 48-Port 1G Base-T LAN
- 4*RM2B expansion slots

MP2900X-14D
- 4-Port 1G WAN
- 24-Port 1G Base-T LAN
- 4*RM2B expansion slots

MP2900X-04D
- 4-Port 1G WAN
- 4*RM2B expansion slots

MP1900X-22
- 5-Port 1G WAN
- 8-Port 1G Base-T LAN
- 2*RM2B expansion slots

MAIPU MAKE IT INTELLIGENT MMC MAIPU MANAGED CLOUD

MP1800X-50
- 5-Port 1G Base-T

MP1800X-51
- 5-Port 1G Base-T
- 1-Port 1G Combo

MP1800X-40E
- 5-Port 1G Base-T
- Dual 4G Modem
- Dual SIM Slots

MP1800X-40W
- 5-Port 1G Base-T
- Single 4G Modem
- Dual SIM Slots
- 2.4G Wi-Fi

MP1800X-40
- 5-Port 1G Base-T
- Single 4G Modem
- Dual SIM Slots

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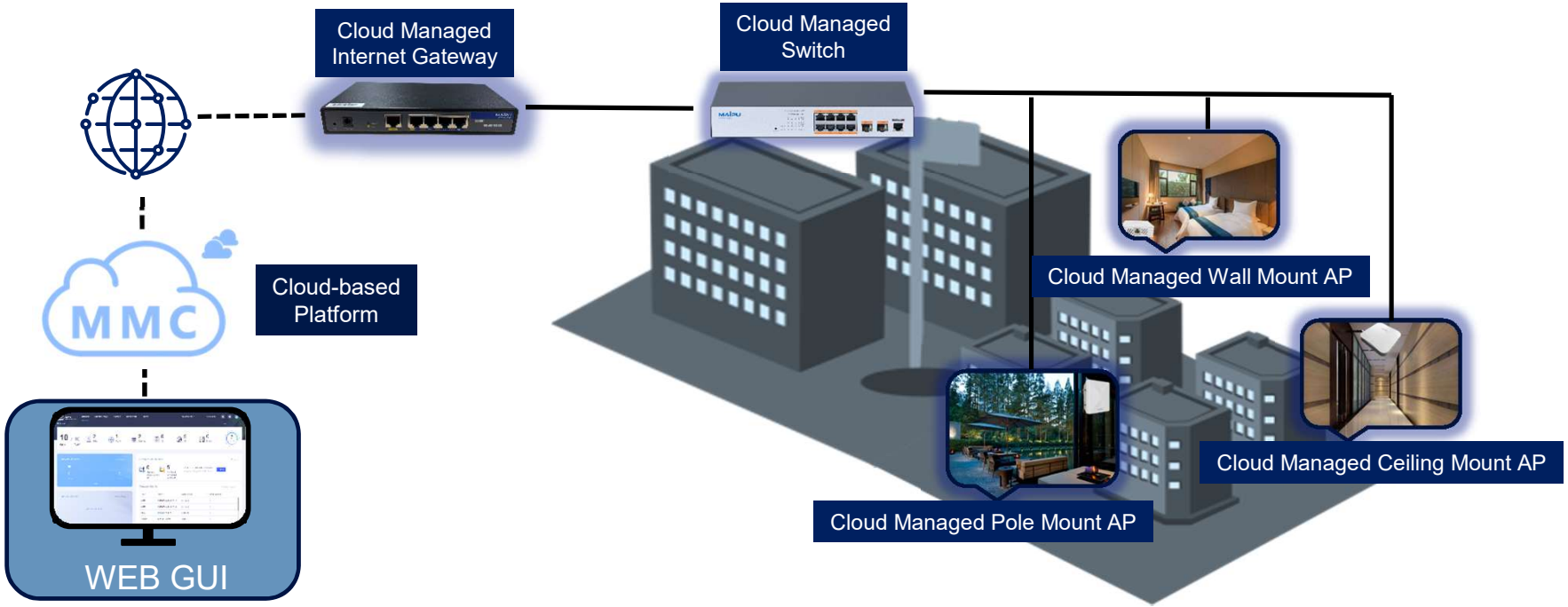
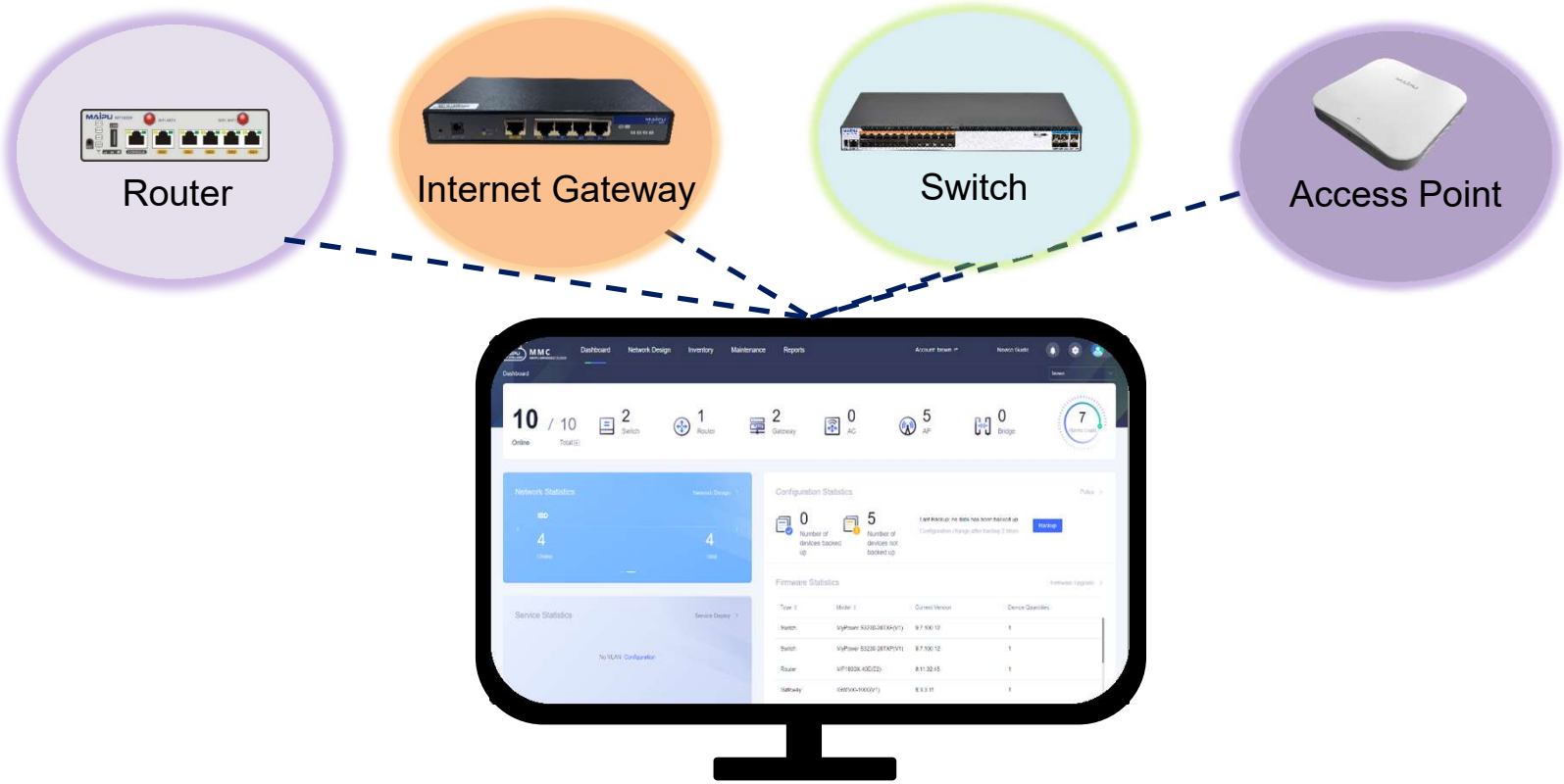
Maipu Managed Cloud(MMC) Overview

Maipu provides cloud-based management and operations platform called Maipu Managed Cloud (MMC). The platform can significantly reduce the operation & maintenance cost for partners and customers. It supports unified management and configuration of internet gateways, APs, routers and switches. Web GUI interface is very friendly and easy-understanding to customers and users.



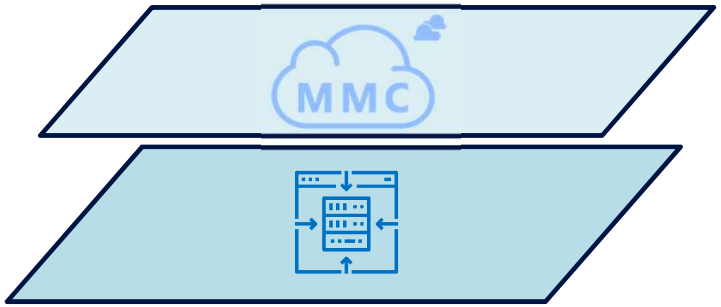
Highlights - Centralized Cloud Management

Getting a predictable operational expenditure (OPEX), rather than capital expenditures (CAPEX). All Internet gateways, APs, routers and switches can be managed by Maipu cloud management platform (MMC) through Internet in a unified manner.

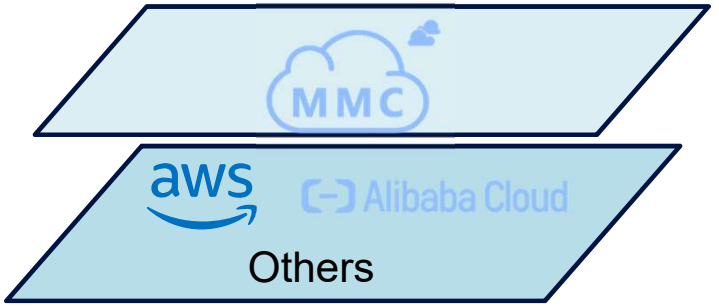


Highlights - Flexible Cloud Deployment

Compared with other managed cloud solution suppliers, Maipu MMC can be deployed on public cloud or private cloud, which gives more choices for partners to centrally manage all the wireless related devices through internet.



Private Cloud

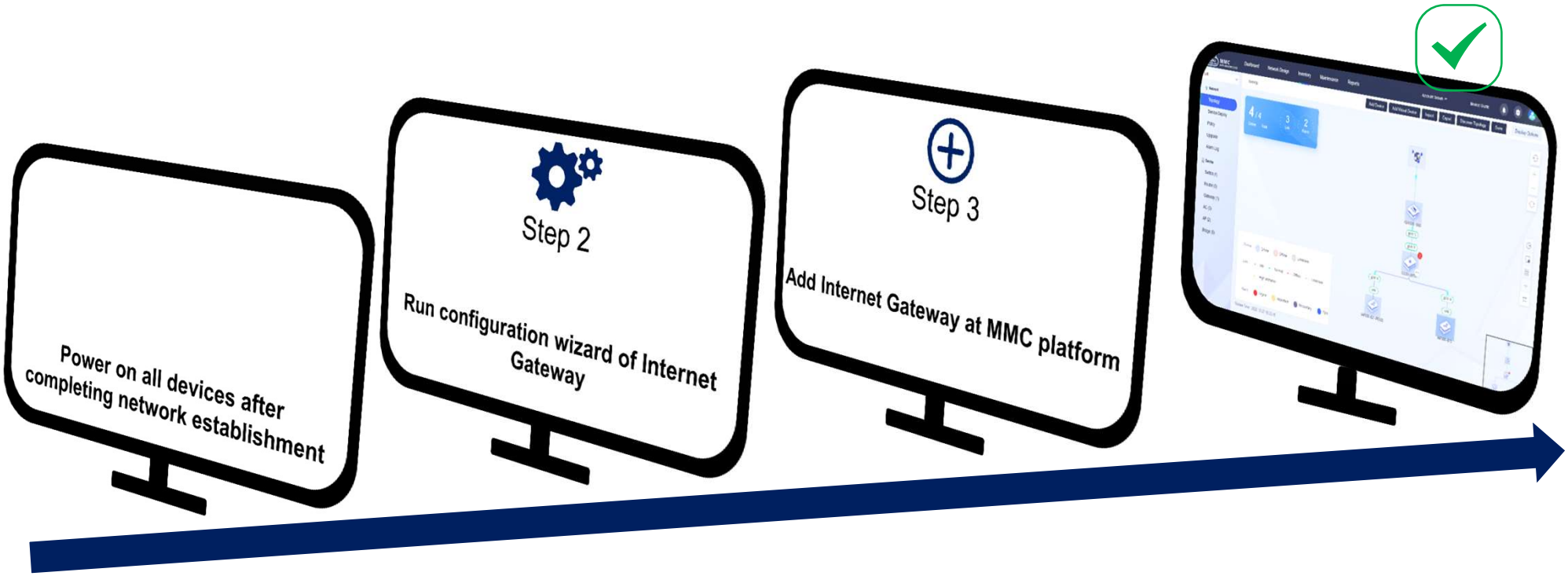


Public Cloud

Node Scales	Node Recommended Server Specification				
Number of APs	CPU Core	Memory	Storage	Bandwidth (Min.)	Server Quantity
2.5K	8 Core/2.4GHZ	32G	1T	≥50Mbps	1+1(HA)
2.5K-5K	12 Core/2.4GHZ	32G	1T-2T	≥50Mbps	1+1(HA)
5K-10K	12 Core/2.4GHZ	32G	2T-4T	≥100Mbps	3 (Cluster)
10K-20K	16 Core/2.4GHZ	48G	2T-4T	≥200Mbps	3 (Cluster)

Highlights - Quickly Cloud Service Provisioning

The platform can significantly reduce the operation & maintenance costs for partners and customers.
Wireless service and cloud service provisioning can be done within 3 minutes.



Highlights - Intelligent Remote Maintenance via Cloud

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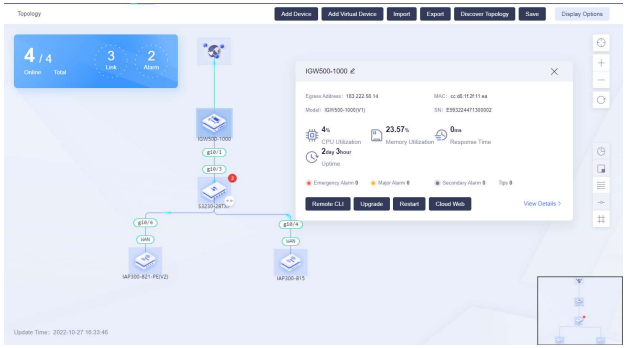
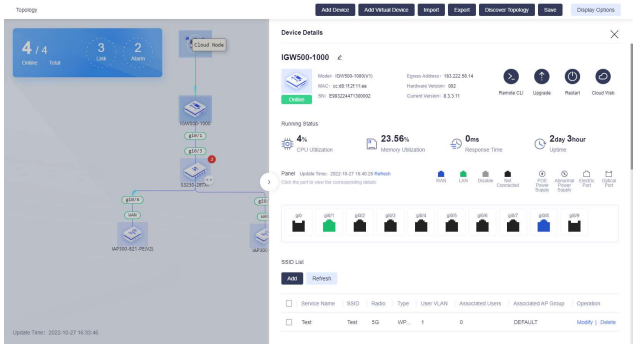
MMC consists of various management and maintenance features, such as network management, configuration management, topology management, device management, alarm management, SSID management, STA management, terminal & traffic statistics, cloud web, and cloud telnet.

Network Management	Configuration Management	Remote Upgrade	Alarm & Log Management
Topology Management	Cloud Web	SSID Management	Terminal & Traffic Statistics
Cloud Telnet	Remote Restart	Built-in Shortcut Command	STA Management
Service Deployment	Port Panel	Status Monitoring	Device Running Status

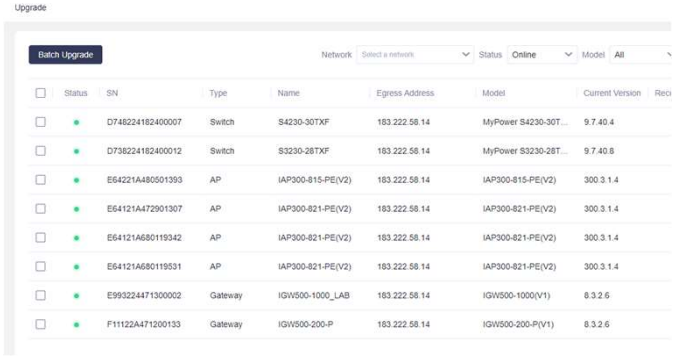
Remote Maintenance



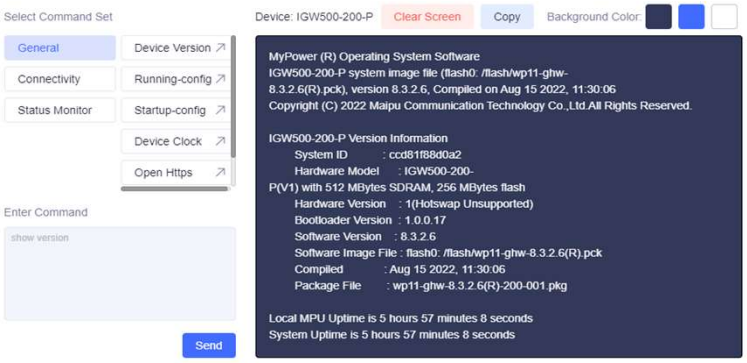
Topology Management



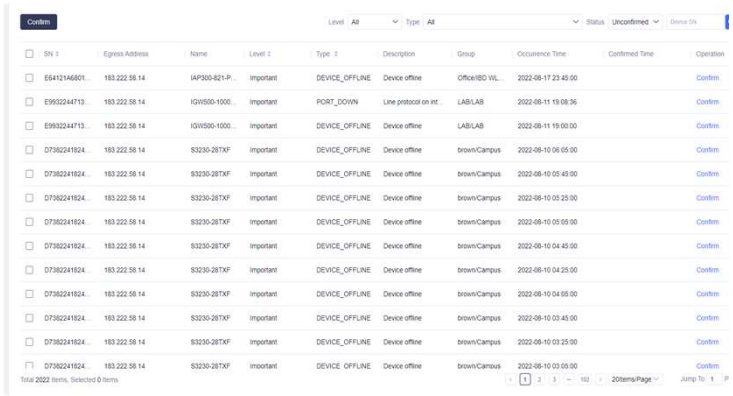
Device Management



Upgrade Management

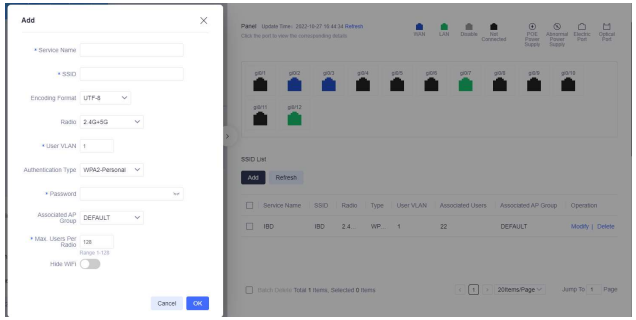


Shortcut Command Management

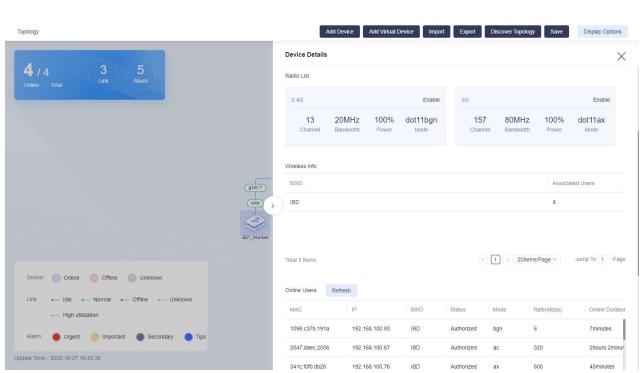


Alarm Management

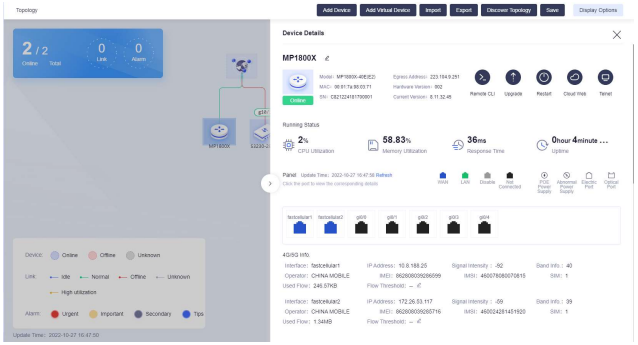
Remote Maintenance



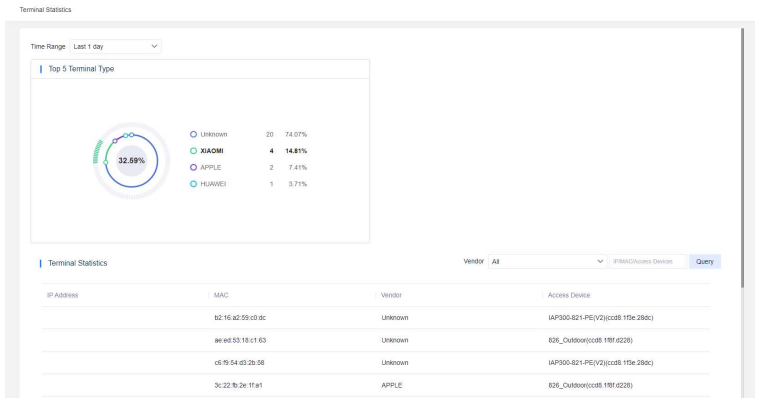
SSID Management



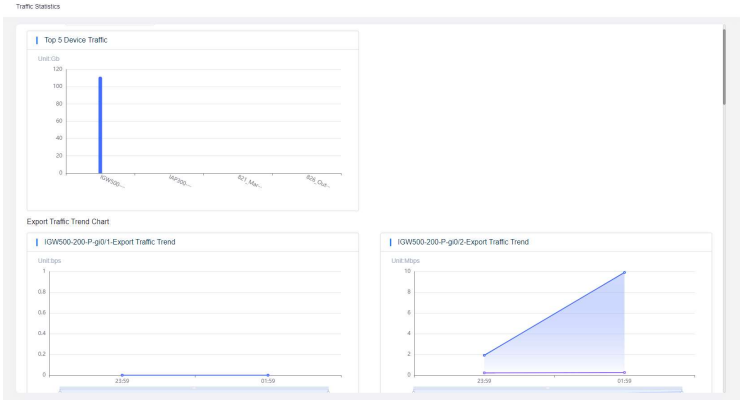
STA Management



Device Running Status



Terminal Statistics

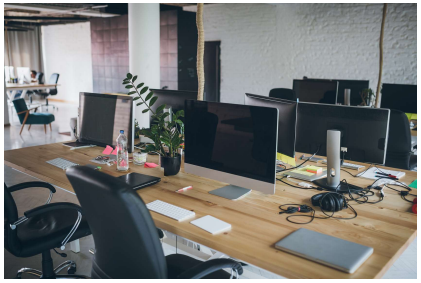


Traffic Statistics

AGENDA

CONTENTS

Typical Applications



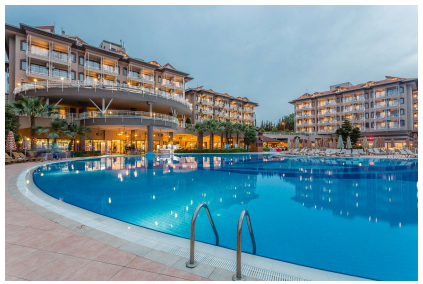
Small Office

Villa

Chain Store

Restaurant

Resort

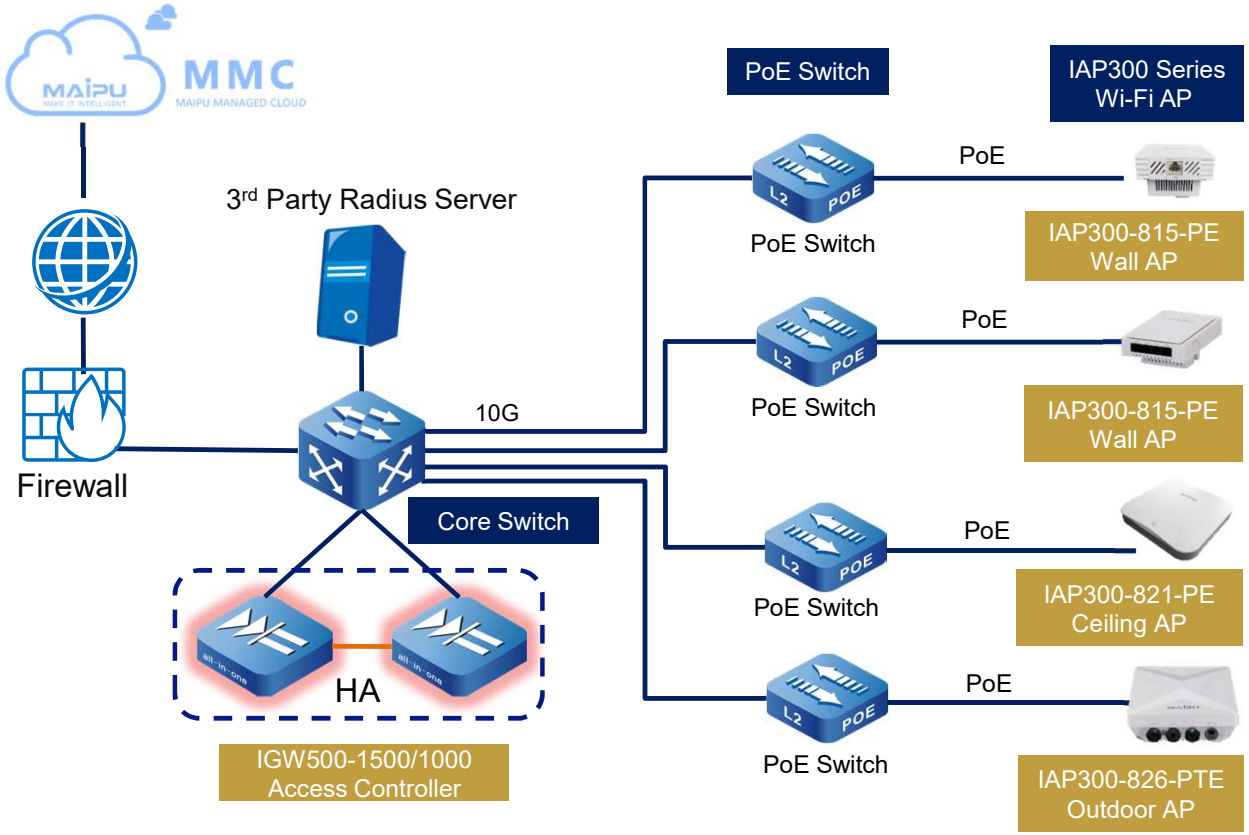


Boutique Hotel

K12 School

Supermarket

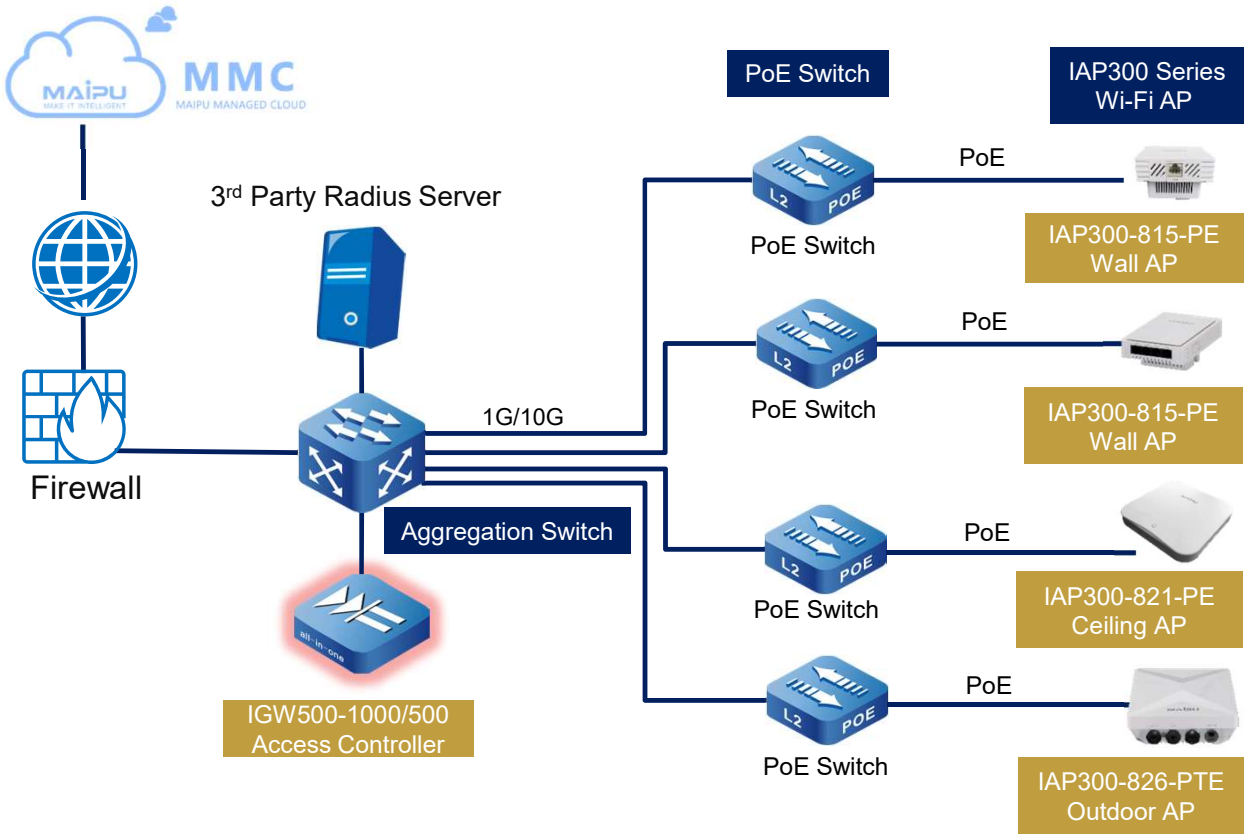
Larger Sized Network Scenario: 128-256 Units AP



Highlights:

- IGW500-1500/1000 deployed for larger sized network
- IGW500-1500/1000 deployed as controller mode
- IGW500-1500/1000 1+1 backup for high availability
- IGW500-1500/1000 working with existing radius server
- PoE switch for AP connection

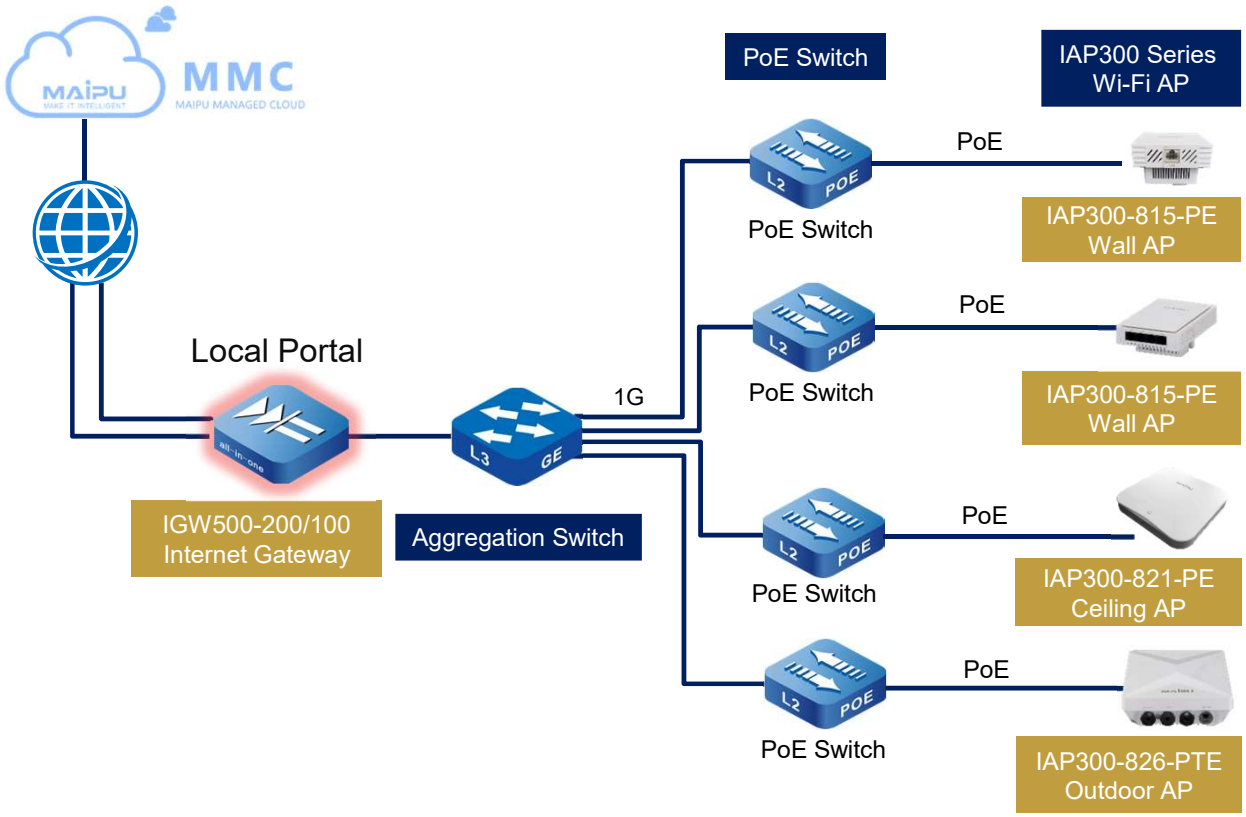
Medium Sized Network Scenario: 64-128 Units AP



Highlights:

- IGW500-500/1000 for medium sized network
- IGW500-500/1000 deployed as controller mode
- IGW500-500/1000 working with existing radius server
- PoE switch for AP connection

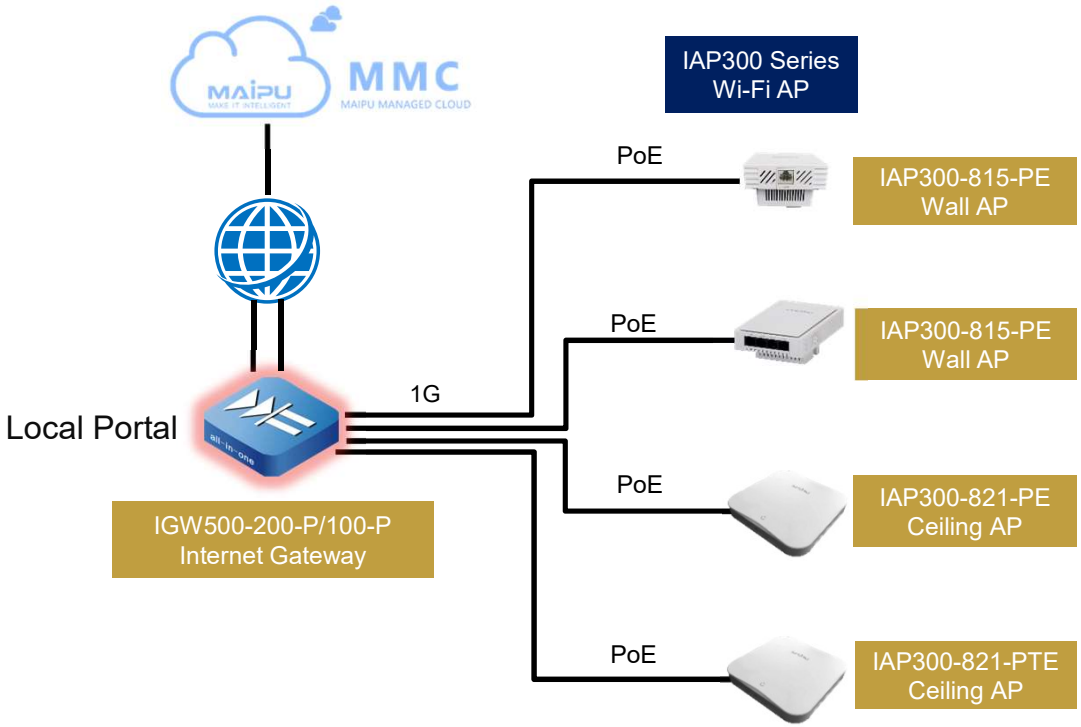
Small Sized Network Scenario: 16-32 Units AP



Highlights:

- IGW500-200/100 for small sized network
- IGW500-200/100 deployed as gateway mode
- IGW500-200/100 integrated with local portal authentication
- PoE switch for AP connection

Micro Sized Network Scenario: 4-8 Units AP



Highlights:

- IGW500-200-P/100-P for micro network
- IGW500-200-P/100-P integrated with 8/4 PoE ports
- IGW500-200-P/100-P deployed as gateway mode
- IGW500-200-P/100-P integrated with local portal authentication

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E-mail：overseas@maipu.com I Web: www.maipu.com I Tel: +86-28-65544850