



X-Manager-S

The controller based on CAPWAP protocol



Monitoring
and Alerting



Visualize network
with Google Maps



Statistical Data
Collection and Reporting



Configuration
and Maintenance



Smart Discovery

Product characteristics

Monitoring and Alerting

- Support CAPWAP protocol
- AP/Bridge could be integrated with controller in L2/L3 network
- Support multiple types of alarms, Alarm templates, level,time could be customized in the GUI.

Statistical Data Collection and Reporting

- Support multiple types of information collection and presentation, e.g. AP, bridge, UE online offline status.

Visualize network with Google Maps

- Support online map, devices could be shown once online, manually location configuration and automatically locate to the address. The offline map is also supported for the distribution of indoor devices.

Configuration and Maintenance

- Support multiple status of devices, e.g. online, offline, configuring, FW upgrading
- Support batch upgrading, manually or automatically
- Support to modify the devices' name, IP address, location, wireless parameters and other information.

Smart Discovery

- Support key information retrieval of each device
- Support NTP server

Specifications

Hardware Index		
	Basic Edition	Pro Edition
CPU:	IPQ4028	
Memory:	256MB	
Storage space:	32MB+256MB	
Physical interface:	10/100/1000M Base-TX *5 USB *1 DC *1 Console *1	
RFID	Not supported	Support for 2G/5G dual band coverage. Antenna Gain 5dBi
Size:	170×155×27mm	
Power:	DC 12V 2A	
Operating temperature:	-20°C~55°C	
Operating humidity:	5~95%RH (Non condensing)	

Performance		
	Basic Edition	Pro Edition
The Number of Device managed	64	256
The Number of templates supported	32	128
Concurrent users (STA)	1024	8192

Login and Interface	
Login GUI	Support HTTPs

State Statistics	
Basic information	

Platform information	Platform name, FW version, IP address, CPU/RAM utilization, uptime, system time ,etc.
Status of devices	Total number of devices, number of online/offline devices, and percentage of online devices
Status of terminals	Total number of terminals, number of online/offline terminals, and percentage of online terminals

Device Management	
AP management (in route mode)	
Status	Online, offline, not-configured, upgrading, configuring, upgrade failure, configure failure
Device name	Configure the device name
Device model	Show Model name
IP	IP address configuration
MAC	MAC address show
FW version	Current FW version, manually upgrading the FW
Online time	Online time show
Template	Template name show
Wireless service	Key wireless parameter show
Group name	Group name selection and show
Wireless mode	AP/AP+WDS mode selection
Locations	Device location information configuration and show
More information	Reboot online devices, Bridge retrieve, delete, refresh, edit
Bridge management (Paired_Bridge)	
Terminal list	Classification and summary display, can be contracted, expanded; Status information: Status, IP, MAC, model, FW version, wireless mode, link rate, uptime, template name, location
Status	Online, offline, not-configured, upgrading, configuring, upgrade failure, configure failure
Management edition	

Delete	Delete offline devices
Refresh	Refresh online devices; Device back online, controller automatically sends the last template; Online devices automatically synchronize configuration from the controller

Terminal Management

Terminal list (route mode)

Status	Connection status of current terminal
Device type	Show the OS of terminal (IOS、Android、Windows)
Offline terminal delete	Delete batch of offline terminals
Terminal information	IP, MAC, terminal type (Android/IOS) , RSSI, mode, link rate, SSID, users, flow, uptime, group name, AP name, AP MAC
Operation	Support browser, delete, modify, force offline
Terminal statistics	
Terminal information	Terminal type, flow
Display mode	Bar chart, pie chart, time-sharing axis chart, etc.
Statistics content	Current information: terminal type、online terminal distribution Time-sharing information: Total flow, Registered users/online users Chart export in excel format

Advanced Management

Template management

Display type	Template list, display content: template name, country code, channel, channel width, SSID, TX-power, Maximum MCS, encryption type, etc.
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Template classification	New or modify template based on different types of devices
Edit	Edit the existing template.
New	New a template, depending on the device type to create the main template, basic template and VAP template
Country code	Support China, UAE, America, and test compliance
Channel	Based on the country code
Channel width	20/40/80MHz (5G-11AC) 20/40MHZ(5G-11N) 20/40MHZ(2.4G-11N)
TX-power	High, middle, low
Multiple VAP	Template for AP supports 8 VAPs , does not support TDMA; Template for bridge support 1 VAP only, TDMA is supported.
SSID	Support Chinese characters
Hidden SSID	Support
Client isolation	Support
TDMA	Enable or disable TDMA function, only for bridge
Maximum clients	Range:1~127, Default:20
Encryption	Configuration of encryption
Authentication	Support SMS, wechat, web authentication.
Client limitation	Account and MAC limitation
Online time	Limit the online time of clients
Flow control	Limit the total data balance of clients
Bandwidth limitation	Range: 64~102400 Kbit/s
Auto match	Template automatically match with online devices
Image management	
Image management	List of images, show the information :name, version, image information, file size, renew time, operation
Upload	Upload the image and store
Manual batch	Select the fixed image and devices, upgrade them manually.

upgrade	
Upgrade status	Upgrading, successful upgrade, failed upgrade
Log management	
Log display	System logs and modules based logs could be displayed
Log delete	Delete logs
Key word search	Search the required logs by key word
SNMP	
Version	V1, V2, V3
Algorithm	SHA,MD5,AES,DES
Secret key	Manul set up
QOS	
Operation	New, edit, delete
Display	QOS interface and QOS priority
Interface	Enable/disable, interface, group, uplink/downlink speed configuration, etc.
Qos priority	Source mac, Destination Mac, vlan, IP type, source ip, destination ip and interface configuration
Load balance	
Display	name, mode, threshold ,difference ,VAP seletion
Search	MAC or name based search
Operation	New, edit, delete

System Settings	
Upgrade and configuration management	
Backup/recover	Configuration file download, upload, save. Factory reset, reboot controller, reboot all APs/bridges. Remark: After all the operation on the controller, please save the configuration in this page.
Upgrade	Upload the image of controller to upgrade FW.
License	License import, 1: Via web GUI, 2: Via USB
Basic setup	
General setup	Support edit the AC name, password

Time synchronization	Support time zone selection, NTP client, NTP server, manual time setup
Interface	Support route/bridge mode (Pro version) , bridge mode: Support IPv4, subnet, gateway, DNS setup. Route mode: support static IP of WAN port, DHCP client, PPPoE. DHCP server could be enabling with LAN port.
Wireless (Pro version)	Configure the 2.4Gz and 5Ghz radios, include: wireless mode, country code, frequency, channel width, TX-power, maximum MCS, VAP,etc.
Access control	
Web authentication	Support internal captive portal and external captive portal
AAA server	Support internal RADIUS and external RADIUS
ACL	Black/white list based on MAC, account, SSID.
ACL rules	Support to block the fixed IP address or port number.
Account management	Add or delete account
Authentication statistics	Record online account information
Online time control	Add the duration time(days or weeks) to block the network
Pre-auth ACL	Set up the white list before authentication

MAP	
Online map	Support Baidu and Google map
Auto locate	Locate the device based on the address information.
Manually locate	Drag and drop the device to the required point
Information display	Display the MAC and name of device, click the device to check the status, name, model IP address, MAC address, location information, SSID, frequency, number of clients, etc.
Information edit	Click the device to edit IP, device name, location, etc. Offline device could not be deleted

Offline map	Import the AP/bridges then drag and drop to the location, location information could be manually configured. Remark: Offline map should be uploaded before import the devices.
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Marketing Management

Theme management

Theme 1	Frame module is fixed at theme 1 (Multiple template could be created)
Theme 2	Frame module is fixed at theme2 (Multiple template could be created)

AD management

Status	Display the SN, name, theme, position, adding time, update time, of ADs.
New	Create the new AD, configure the AD name, position, type, and related pictures, etc.
Edit	Edit the existing AD
Delete	Delete the existing AD

AD statistics

Display	The coordinates and bar chart are shown
Search	click data of today, data of yesterday, data of last 7 days, statistics of this month for query and specific date for query
Export	Support to export the detailed information or bar chart

Messages management

Display	Support to display: SN, AP MAC, client MAC, cellphone number, client type, message content, and message time.
Delete	Support to delete the selected one or multiple messages.

Detection

Spectrum analysis

Type	Support to display 2G or 5G, click to switch between 2G and 5G
Figure	Separated via different colors, RSSI and channel could be shown

Search	Support the specify AP to show the spectrum.
Rogue AP detection	
Classification	Manually set to friend AP or rogue AP.
Display	AP BSSID, SSID, frequency, and channel width, etc.
Scanning type	Grouping scanning, All channels scanning.

Interface



(Basic version)



(Professional version)

Dimention

