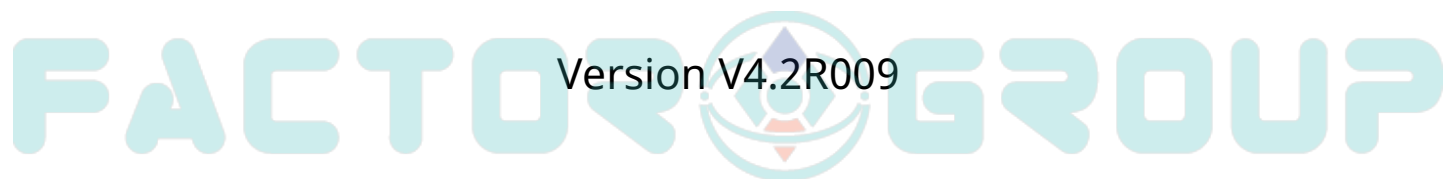


APNOS for AP

Release Note

Version V4.2R009



1.Introduction

The purpose of this document is to provide important information about the released software version, including but not limited to the following information: running platform, important components, main features, key updates.

Target Audience

This manual is primarily intended for following engineers.

- Software Developers
- Software Testers
- Customer Site Implementers



2.Modification of Records

Date	Versions	Modify Remarks
2026-03-20	V1.0	APNOS version-V4.2R009 released



3. Release Note

- [Security features] [Portal Authentication]
 - support redirect HTTPS
- [Management] [ZTP]
 - Connect to controller by OpenWIFI Cloud Discover Service
 - Manually set the FQDN of controller (via web or SSH)
- [Maintenance] [Radio Information]
 - Channel Utilization: Historical Average, Real-time
 - DFS Status, CAC Status
 - Radio Statistics: Normal and Abnormal Packet Statistics, Beacon Statistics, etc.
- [Maintenance] [Station Key Event] Portal Event
- [Maintenance] [Device Key Event]
 - Configure Application Events
 - Radio Events: Enable, Disable, Radar DFS, ACS, Channel Switch
- [Maintenance] Network Connectivity Monitoring Service
- [Maintenance] Support Rescue Hotspot
 - SSID is based on device MAC and hidden



4. Image Information

CAP6020-Z

7799ebdcf2ae28504b817113fb56bb52 AsterAPNOS-CAP6020-Z-V4.2R009.tar

AP6020

ddaed0c018003760c95addc4fcdb2273 AsterAPNOS-AP6020-V4.2R009.tar

CAP6020-F

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AP6020F

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CAP6020-WZ

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CAP6020-WZ-18

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AP6020W

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CAP6030-Z

94c18e93d60a97c15f806d40d1023e6d AsterAPNOS-CAP6030-Z-V4.2R009.tar

AP6031

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AP6240

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AP6241E

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CAP6141-E

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CAP6140-Z

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CAP7020-Z

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CAP7020-F

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CAP7030-Z

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AP7330

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AP7360

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AP7341E

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CAP7141-E

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CAP6020-FM

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CAP5020-F

8d1674c5b986c4ac5a2200e1f1596560 AsterAPNOS-CAP5020-F-V4.2R009.tar

AP6020WF

0f4726989ac424b9d4e13cf0827a9e65 AsterAPNOS-AP6020WF-V4.2R009.tar

CAP5132-Z

0aaaacea291fc0f41b414b1938a8c9a1 AsterAPNOS-CAP5132-Z-V4.2R009.tar

CAP5020-WZ

b60bb23befaf9927003c635684d353dc AsterAPNOS-CAP5020-WZ-V4.2R009.tar



5. Dependent Components

Components	Versions
OpenWiFi	4.2.0
OpenWrt	23.05
Kernel	5.4 & 6.1



6.Feature List

Features	Level 1	Level 2	
Wireless features	OFDMA (Orthogonal Frequency Division Multiple Access)		
	MU-MIMO (Multi-User, Multiple-Input, Multiple-Output)		
	BSS Coloring		
	multicast/broadcast to unicast conversion		
	SSID		Chinese SSID
			Hidden SSID
	Roaming		802.11 k
			802.11 v
			802.11 r
			Sticky Client Steering
	Isolation		VLAN-based isolation
			isolation between VAPs
			isolation based on SSID
WI-FI 7		802.11be	
		Multi-RU	
		4096-QAM modulation	
Network features	DHCP Client		
	VLAN	tagged	
		untagged	
	VXLAN	Establish VXLAN tunnels in centralized gateway scenarios	
	ACL	MAC address-based whitelist and blacklist	
	LLDP (Link Layer Discovery Protocol)		
	DHCP Server		
		Assigning different VLANs	
Fiber Module Monitor			
Radio frequency management	Dynamic Frequency Selection (DFS)		
	Auto Channel Selection (ACS)	Automatic channel scanning	
		Automatic channel adjustment	

	Manually disable RF	
	Maximum number of connected stations	100+
	Maximum number of SSIDs per radio	8
Security features	WPA-PSK	
	WPA2-PSK	
	WPA-PSK + RADIUS (MAC)	
	WPA-PSK/WPA2-PSK Personal Mixed	
	WPA-Enterprise	RADIUS
	WPA2-Enterprise EAP-TLS	
	WPA-Enterprise-Mixed	
	SAE	
	WPA2/WPA3 Transitional	Simultaneous Authentication of Equals (SAE)
	WPA3-Enterprise EAP-TLS	
	WPA3-Enterprise-Mixed	
	Vendor-based Access Control	
	Portal authentication	Built-in/Local Portal Authentication External Portal Authentication Portal + Radius Portal 2.0 support redirect https
AAA		RADIUS Authenticated SSID
		RADIUS MAC-Auth (MAB)
		Dynamic VLAN
		Accounting
		Escape
Management	Time settings	Network Time Protocol (NTP)
		TimeZone
	Standalone design	Continue working after controller disconnection
	Device reboot	
	Device upgrade	
	Patch	
	Restore factory settings	

	remote terminal (rtty)	
	Remote commands/scripts	
	Telemetry	wifi-frame
		dhcp
		state
	ZTP	Connect to controller by OpenWIFI Cloud Discover Service
		connect to controller by DHCP option 138/224
		Manually set the controller FQDN (via web or SSH)
	SSH	
Maintenance	Device status information	host name
		IP Address
		version
		MAC Address
		Memory
		CPU
		Uptime
	Radio Information	Channel Utilization: Historical Average, Real-time
		DFS Status, CAC Status
		Radio Statistics: Normal and Abnormal Packet Statistics, Beacon Statistics, etc.
	Stations information	Real-time rate
		Accumulated traffic
		Roaming information
		SNR (Signal-to-Noise Ratio)
		Associated AP (Access Point)
		IP address
		MAC address
Current channel		
Bandwidth		
wifi HW mode		
Hostname		
Terminal type		
Terminal model		

		Vendor information
		DHCP process
	Health data reporting	
	Capture packets remotely through the cloud management platform	
	log	System Administration
		Station Key Information Reporting
	syslog client	
	Station Key Event	wifi event
		dhcp event
		reject by ACL or Radius
		Association greater than max number
		Reject for low wifi signal
		Reject by Vendor Access List
		Portal Event
	Device Key Event	Configure Application Events
		Radio Events: Enable, Disable, Radar DFS, ACS, Channel Switch
	Inspection	Association List
		Usage of wifi radio bandwidth
	Warning	Device status
		Service status
	GPS	Support reporting GPS data
	LED	Controller connection status License status Air interface status Factory reset Positioning
	tech support	
	Network Connectivity Monitoring Service	
	Rescue Hotspot	SSID is based on device MAC and hidde
QoS	Rate Limit	Bandwidth throttling based on SSID
	priority	DSCP mapping based on port
		DSCP mapping based on DNS
		WMM (Wi-Fi Multimedia)

License	License control	License management for radio frequency
Sync with OpenWIFI	synced with V4.2.0	

