





RELEASE NOTES

Enterprise Wi-Fi Access Point

System Release 6.5.3



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Contents

Contents	. 3
Introduction	4
Guidelines for downgrade	4
End of support	. 4
Enterprise Wi-Fi Access Point System Release 6.5.3	5
Supported Platforms	6
System Release 6.5.3	. 7
Introduction	7
Feature description	7
Password encryption for admin user	7
Fixed issues	8
Regulatory updates	9
Known issues 1	10
Limitations	13
Cambium Networks	14

Introduction

Guidelines for downgrade

While downgrading the software on e410, e510, e430, e600 and e700 APs, it is recommended to follow the below sequence:



Warning

To downgrade software to 3.11.x (3.11.4 - r9/3.11.3.1 - r4/3.11.3 - r7 etc.) or 4.x (4.0/4.1/4.2 and later versions) from 6.4 and later versions, it is recommended to use the 4.2.2 - r5 version.

Ignoring this suggestion may lead to failure in loading the image and resulting in the flash memory (backup partition) getting corrupted. To recover the corrupted partition, user may have to contact Cambium Support team.

To downgrade the software from 6.4-r5 and above to 3.11.4-r9, perform the following steps:

- 1. Downgrade from 6.4-r5 and above to 4.2.2-r5.
- 2. Downgrade from 4.2.2-r5 to 3.11.4.1-r3.
- 3. Downgrade from 3.11.4.1-r3 to 3.11.4.-r9.

End of support

System release 6.x no longer supports the following platforms:

- e410
- e430
- e510
- e600
- e700



Warning

Cambium recommends the user to not use earlier versions of 6.x on these APs.

Enterprise Wi-Fi Access Point System Release 6.5.3

This document provides information about Cambium Networks Enterprise Wi-Fi Access Point (AP) System Release 6.5.3.

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Note

Hostnames shall contain the following characters:

- 0-9/a-z/A-Z and hyphens.
- If a previously configured hostname contains other characters, those characters will be replaced with hyphens.

Supported Platforms

Access Point	Indoor	Outdoor	802	.11ax		cnMaestro	XMS
Model			Wi-Fi 6	Wi-Fi 6E	Cloud	On-Premise	Cloud
XV3-8	~		\checkmark		\checkmark	\checkmark	<
XV2-2	~		√		~	\checkmark	✓
XV2-2T		√	\checkmark		~	✓	✓
XV2-2T1		√	\checkmark		~	✓	✓
XE5-8	~		\checkmark	\checkmark	~	✓	✓
XV2-21X	~		✓		~	✓	
XV2-23T		~	✓		✓	~	
XV2-22H	~		\checkmark		~	✓	~
XE3-4	~		\checkmark	~	~	\checkmark	~
XE3-4TN		\checkmark	\checkmark	~	\checkmark	\checkmark	\checkmark

The following table provides details on the platforms supported in System Release 6.5.3:

System Release 6.5.3

Introduction

System Release 6.5.3 is a maintenance release on System Release 6.5.2 with enhancements, bug fixes, and the following new feature:

Feature description

Password encryption for admin user

From System Release 6.5.3 and later versions, the admin user password is encrypted.

Fixed issues

Tracking ID	Platform	Description
FLCN-14420	All	LLDP caused memory leak when APs were deployed with non-Cambium vendor switches.
FLCN-14339	All	In a WLAN profile, when RADIUS and ePSK are enabled, invalid events were generated.
FLCN-14294	All	SNMP community parameters were not persistent across restarts.
FLCN-14237	XV3-8	Deauthentication of client due to session timeout will be triggered only if it is learned from the RADIUS server.
FLCN-14225	All	The SNMP OID 1.3.6.1.4.1.17713.22.1.1.1.14.0 (cambiumAPTotalClients.0) always returned a value of zero even when clients were connected to the AP.
FLCN-13911	XE3-4, XE5- 8	OCS scan was not triggering for radio 3 if both radio 2 and radio 3 were configured as 5 GHz.
FLCN-13882	XE3-4	APs continuously restarted because of failure in unexpected boot parameter.
FLCN-13672	All	Erroneous time stamp was displayed for last-reboot-reason.
FLCN-13631	All	AirTime stats were not available for Tx, Rx, busy, and interferences parameters.
FLCN-13292	All	The static VLAN pool was not working when WPA2-Enterprise security was enabled.

This section lists the fixed issues in System Release 6.5.3:

Regulatory updates

Tracking ID	Platform	Description
FLCN-14337	XE3-4TN	XE3-4TN APs support 5.2 GHz (5250-5350 MHz, U-NII-2A), 5.4 GHz (5470-5725 MHz, U-NII-2C), and 5.8 GHz (5725-5850 MHz, U-NII-3) DFS channels as per CE standards.
FLCN-14336	XV2-23T	XV2-23T APs support 5.2 GHz (5250-5350 MHz, U-NII-2A), 5.4 GHz (5470-5725 MHz, U-NII-2C), and 5.8 GHz (5725-5850 MHz, U-NII-3) DFS channels as per CE standards.
FLCN-14283	All	Updated Indonesia regulatory information.

This section lists the regulatory fixed issues in System Release 6.5.3:

Known issues

Tracking ID	Platform	Description / Workaround
FLCN-14486 *	XV2-22H	Device is not sending or processing LLDP packets on Ethernet port 2 and 3. This is breaking the auto-VLAN feature on cnMatrix switches.
		Workaround : Turn on the device using either the eth1 or the passthrough interface.
FLCN-14485 *	All	The 2.4 GHz radio mode is set to gn as the default setting.
		Workaround: Configure the mode as required.
FLCN-14433 *	All	Band steering advanced parameters are not retained after the AP is restarted.
		Workaround: None
FLCN-14427 *	All	Occasionally, the VLAN bridge interface fails to install, when the device Ethernet port allowed VLAN configuration is updated with the new VLAN.
		Workaround: Restart the AP.
FLCN-14423 *	All	Occasionally, radio transmit power changes to auto value instead of static configured transmit power, when device changes the channel because of a DFS event.
		Workaround : Increase the radar receive sensitivity to a higher value to avoid any change in channel because of false radar detection.
FLCN-14382 *	All	GRE tunnel with IPv6 is not supported.
		Workaround: None
FLCN-14365 *	All	Occasionally, router advertisement packets are sent back to Ethernet after unicast conversion.
		Workaround: None
FLCN-14296 *	XV2-21X	One random MAC address is generated for every unique successful client connection to the device.
		Workaround : None, the random MAC address will be cleared from the intermediate L2 or L3 switch after the MAC table timeout.
FLCN-14209 *	All	Captive portal redirection fails with API-based integration.
		Workaround: None
FLCN-14030	All	Invalid PSK observed when UPSK is enabled with XMS-C.
		Workaround: None

The following table lists the known issues observed in System Release 6.5.3:

Tracking ID	Platform	Description / Workaround
FLCN-14019	XV2-22H	AP is unable to pass gigabit throughput to the connected wired clients in Ethernet 2 and Ethernet 3 ports when advanced features, such as MAB, tunnel, or port-channel are enabled on the respective interfaces.
		Workaround: None
FLCN-13844	XV2-22H	AP is unable to forward traffic at near wireline speeds between connected wired clients in Ethernet 2/Ethernet 3 when interfaces are configured with different VLANs.
		This is not an issue when traffic is flowing between wired interfaces and the LAN or WLAN interfaces.
		Workaround: None
FLCN-13769 *	All	DPI statistics update to cnMaestro fails due to random application process restart.
		Workaround: None
FLCN-13730	All	The output of the show power command displays Sufficient as well as Limited when connected to the same power source.
		Workaround: None
FLCN-13640	XV2-22H	The device restarts when Cetis IP Phone (ND2110S-N) is connected to PoE out Ethernet.
		Workaround: Disable LLDP.
FLCN-13383	All	DHCP discover packet is transmitted to the network even when the DHCP relay is enabled on VLAN 1 interface.
		Workaround: None
FLCN-13375 *	XV2-22H	Port channel is not working.
		Workaround: None
FLCN-13307	All	Guest Access redirection fails when MAC authentication fallback is enabled.
		Workaround: Restart the device.
FLCN-13275	All	Ethernet interface statistics are capping out at 4294967295 bytes.
		Workaround: None
FLCN-13180	All	AP uses IGMPv2 instead of IGMPv3.
		Workaround: None
FLCN-12906 *	All	A global filter to deny Psiphon application traffic is blocking associated client traffic such as SCP transfers and Google Chrome browsing.
		Workaround: None

Tracking ID	Platform	Description / Workaround
FLCN-12795	All	A delay in the internet connection might lead to APs activation failure in XMS-C.
		Workaround: None
FLCN-12694	All	cnMaestro Guest Access clients can download files greater than the quota limit.
		Workaround: None
FLCN-12269 *	All	Device class filter is poor at correctly identifying the device class and device type of associated clients.
		Workaround: None
FLCN-12226 *	All	Device class filter configured to deny all device class phones is also denying device class tablet iPads.
		Workaround: None
FLCN-12164	All	Tunnel-related notifications are not updated to cnMaestro.
		Workaround: None
FLCN-11796	All	Session Time/Rate Limit returned by the RADIUS server is not maintained across roaming for a WPA2-Enterprise client.
		Workaround: None
FLCN-11544	All	The client isolation feature does not block ARP traffic due to which the clients are visible to each other by any discovery tools.
		Workaround: None
FLCN-11369	All	AP is not able to pass the traffic with Huawei-E3372 4G dongle.
		Workaround: None
FLCN-10949	All	When AP is configured with HE2O 11ax mode, voice, video, and Besteffort traffic are not prioritized as expected.
		Workaround: None
FLCN-10856	All	The Psiphon application is not being blocked by Application Control with XMS-Cloud.
		Workaround: None
FLCN-9723	All	The Guest Access redirection for the Proxy Redirection port is not working properly.
		Workaround: None
FLCN-9486 *	All	Clients connected via the wired Ethernet interface retain the old IP even when GRE switches from primary to secondary host.
		Workaround: None

* Reported in System Release 6.5.3

Limitations

Tracking	Platform	Description
FLCN-14366 *	All	Due to password encryption enhancements downgrading device to software versions lower than 6.5.3 resets the admin password to the factory default value.
FLCN-13779	All	Do not use commands like Save, Delete config, or exit in user- defined overrides of cnMaestro when pushing an AP group profile to the device.
FLCN-13415	All	Guest Access profile is not supported on mesh profiles.
FLCN-13350	All	L3 interface is mandatory as per native VLAN of Ethernet 1 interface.
FLCN-13239	All	Auto-VLAN does not support more than 20 VLANs when Ethernet 1 is configured as Trunk mode.
FLCN-13122	All	Honeypot AP is not detected when SSID is hidden.
FLCN-12773	All	Any configuration update with respect to ePSK parameters does not impact the stations that are associated.
FLCN-12515	All	No arp-rate limit when disabled and downgraded to unsupported software image is leading to enable passpoint.
FLCN-12304	All	With mesh auto-detect backhaul enabled, multiple mesh bases are not allowed on a device.
FLCN-11818	All	Client isolation is not supported if clients are with static IPs.
FLCN-11366 *	All	Downlink performance is degraded when NAT is enabled.
FLCN-11167	All	Mesh client hostname and IP are missing in the show wireless mesh command.
FLCN-10215	All	ePSK is not supported with WPA3 encryption.
FLCN-9424	All	Smart Steering/Enhanced roaming must not be enabled in a single AP deployment scenario.
FLCN-8476	XV3-8, XV2-2, XV2-2T, and XV2-2T1	160 MHz bandwidth is not supported.
FLCN-7675	All	Multicast isolation is not supported.
FLCN-7674	All	Cisco Discovery Protocol (CDP) is not supported.

This section lists the limitations observed in Enterprise Wi-Fi AP system releases:

* Reported in System Release 6.5.3

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