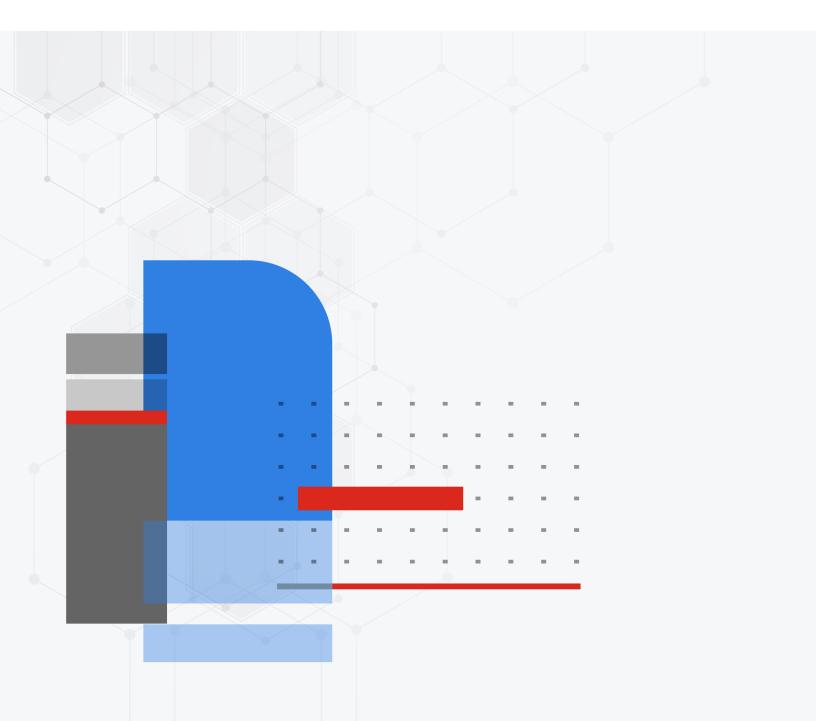# Release Notes

FortiAP 7.4.0

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Change log

Date	Change description
2023-06-01	Initial release.

Introduction

This document provides release information for FortiAP version 7.4.0, build 0540.

For more information about your FortiAP device, see the *FortiWiFi and FortiAP Configuration Guide*.

Supported models

FortiAP version 7.4.0, build 0540 supports the following models:

Wi-Fi 6 Models
FAP-231F, FAP-234F, FAP-23JF, FAP-431F, FAP-432F, FAP-433F, FAP-831F

Wi-Fi 6E Models
FAP-231G, FAP-233G, FAP-431G, FAP-433G

New features or enhancements

The following table includes FortiAP version 7.4.0 new features and enhancements:

Bug ID	Description
268728	Federal Information Processing Standards (FIPS) certification. To enable FIPS mode, run the following commands on the FortiAP CLI: ``` cfg -a FIPS_CC=1 cfg -c ``` To disable FIPS mode, factory reset the FortiAP. **Note:** FAP-431F and FAP-433F cannot support FIPS mode.
867684	Support WPA3-SAE security over the mesh backhaul. On the FortiGate CLI (FortiOS 7.4.0), add one mesh-backhaul vap with security wpa3-sae, and assign it to the mesh-root FortiAP. **Note:** The "Hash-to-Element (H2E) only" option is mandatory for the mesh backhaul. On the mesh-leaf FortiAP CLI, input the following mesh settings: ``` cfg -a MESH_AP_TYPE=1 cfg -a MESH_AP_SSID=meshssidname cfg -a MESH_AP_SECURITY=2 cfg -a MESH_AP_PASSWD=meshssidpassword cfg -c ```
868839	The wtp-profile of FAP-432F and 433F models can set external antenna parameters when the corresponding external antenna is installed. On the FortiGate CLI, input the following commands: ``` config wireless-controller wtp-profile edit "FAP433F" config radio-1 set optional-antenna none	FANT-04ABGN-0606-O-R	FANT-04ABGN- 0606-P-R end end ```
887980	Support a new data-channel security option "`ipsec-sn`". The FortiAP serial number is added to the initial IPsec setup message so that it can be used by a dispatcher to query the destination FortiGate. Then the FortiAP will connect to the FortiGate and encrypt the data channel with an IPsec-VPN tunnel.
902191	Wireless bonjour-profile feature supports a new service option for Miracast.

Region/country code update and DFS certification

Bug ID	Description
825182, 886015	Enable "Wi-Fi 6E" 6GHz Channels for supported regions and countries.
876673	Enable 5GHz UNII-3 channels in certain European countries.

Changes in CLI

Bug ID	Description
903756	A new cfg variable MESH_AP_SECURITY is added for the security mode of mesh-backhaul SSID. `cfg -a MESH_AP_SECURITY=0	1	2` Input 0 for "Open", 1 for "WPA/WPA2-Personal", or 2 for "WPA3-SAE". The default value is 0.

Upgrade and downgrade information

Upgrading to FortiAP version 7.4.0

FortiAP 7.4.0 supports upgrading from FortiAP version 7.2.2 and later.

Downgrading to previous firmware versions

FortiAP 7.4.0 supports downgrading to FortiAP version 7.2.2 and later.

Firmware image checksums

To get the MD5 checksum code for a Fortinet firmware image, perform the following steps:

1. Go to the Fortinet Support website.
2. Log in to your account. If you do not have an account, create one and then log in.
3. From the top banner, select **Download > Firmware Image Checksums**.
4. Enter the image file name, including the extension. For example, FAP_221C-v6-build0030-FORTINET.out.
5. Click **Get Checksum Code**.

Supported upgrade paths

To view all previous FortiAP versions, build numbers, and their supported upgrade paths, see the Fortinet Documentation website.

Product integration support

The following table lists product integration and support information for FortiAP version 7.4.0:

FortiOS	FortiOS 7.4.0 and later.
Web browsers	Microsoft Edge version 41 and later.
	Mozilla Firefox version 59 and later.
	Google Chrome version 65 and later.
	Apple Safari version 9.1 and later (for Mac OS X).
	Other web browsers may work correctly, but Fortinet does not support them.

> We recommend that the FortiAP firmware version be matched with the respective FortiOS version, when available. Other variations of FortiOS and FortiAP versions may technically work for the lowest common feature set. However, if problems arise, Fortinet Support will ask that the versions be matched, as recommended, before troubleshooting.

Resolved issues

The following issues have been resolved in FortiAP version 7.4.0. For inquiries about a particular bug, visit the Fortinet Support website.

Bug ID	Description
371769	FortiAP could not suppress ARP poison attacks from wireless devices.
797151, 804661, 806019	Fixed various SNMP daemon crash issues.
878837	After the configuration of one SSID was changed, wireless clients on the other SSID got disconnected.
879756	Clients connected to one Leaf AP cannot communicate with clients connected to the other Leaf AP on the same Root AP.
883157	Wi-Fi clients would randomly get disconnected when FortiAP was sending statistics data to the FortiGate.
884413	Fixed a kernel panic issue `rgu_preempt self-detected stall on CPU`.
885589	Fixed a kernel panic issue `PC is at __kmalloc+0x114/0x1f0`.
885851	FortiAP with `AP_MGMT_VLAN_ID` configured would randomly get a connection loop after a firmware was provisioned from the FortiManager or FortiGate.
894996	Fixed a kernel panic issue `PC is at ieee80211_node_add_ipv4+0x148/0x160 [umac]`.

Known issues

The following issues have been identified in FortiAP version 7.4.0. For inquiries about a particular bug or to report a bug, visit the Fortinet Support website.

Bug ID	Description
692160	Wireless packets captured by FortiAP radio in Sniffer mode are corrupted.
761298	FAP-234F Bluetooth Low Energy (BLE) function cannot work.
873396	Bluetooth Low Energy (BLE) function of Wi-Fi 6E FortiAP models would stop working sometimes. **Workaround:** Reboot the FortiAP.

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