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Release Notes

FortiAP-U 6.2.4

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FortiAP-U 6.2.4 Release Notes
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TABLE OF CONTENTS

Change log

Date	Change description
2022-06-02	Initial release for FortiAP-U 6.2.4.
2022-06-17	Updated Resolved issues on page 11.
2022-12-05	Updated Special notice on page 8, Upgrade and downgrade information on page 9, and Common vulnerabilities and exposures on page 11.

Introduction

This document provides release information for FortiAP-U version 6.2.4 build 0307.

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

Supported models

FortiAP-U version 6.2.4 supports the following models:

Wi-Fi standard	Models
802.11ac	FortiAP-U221EV, FortiAP-U223EV, FortiAP-U24JEV, FortiAP-U321EV, FortiAP-U323EV, FortiAP-U421EV, FortiAP-U422EV, FortiAP-U423EV
802.11ax	FortiAP-U231F, FortiAP-U234F, FortiAP-U431F, FortiAP-U432F, FortiAP-U433F

New features or enhancements

The following table includes new features and enhancements in FortiAP-U version 6.2.4 when managed by a FortiGate running FortiOS version 6.2.4 and later, or by FortiLAN Cloud:

For FortiAP-U features managed by a FortiWLC, see the Wireless Controller documentation.

Bug ID	Description
587779	Support extension information of wtp, vap and station statistics.
670725	Support hexadecimal values of EddyStone namespace ID and instance ID in Bluetooth low energy (BLE) profile.
702730	FAP-U LAN port (in WAN-LAN mode) supports dynamic VLAN assignment with RADIUS MAC-address authentication.
738291	802.11ax FAP-U models in single-5G mode support dedicated dual-band scanning on the third radio.
739307	Support Service Assurance Manager (SAM) mode.
739314	FortiPresence PUSH API update: FortiAP sends its region map information to FortiPresence server for positioning wireless stations.
741443	FAP-U234F and FAP-U432F support indoor/outdoor country revision as configured from FortiGate. **Note:** FortiGate needs to run FortiOS 7.2.0 and later.
747779	Improve connectivity to FortiGuard server for UTM update and query services.
763506	Support FQDN address of FortiPresence server
763507	From WiFi Controller `wtp-profile` configuration, FortiAP WAN port can be set as an 802.1X supplicant to authenticate to local infrastructure network using EAP protocols.
763510	Support DHCP address enforcement: Wireless clients must complete the DHCP process and obtain an IP address through FAP-U SSID; otherwise they are denied to connect.
766455	Support downloading firmware image from FortiLAN Cloud over HTTPS.
769599	Support the Federal Information Processing Standard (FIPS) validation.
771071	Support BSS coloring collision event log to FortiGate. **Note:** FortiGate needs to run FortiOS 7.0.4, 7.2.0 and later.

Region/country code update and DFS certification

Bug ID	Description
754092	The region code of Israel is changed from "I" to "E" (for 802.11ax FAP-U models only); The default country of region "I" is set as Morocco.
758352	Enable DFS Channels on all FAP-U models with region code P. **Note:** FortiGate needs to run FortiOS 7.0.4, 7.2.0 and later.

Changes in CLI

Bug ID	Description
745110	Support `presult` command output for troubleshooting uniformity; Add `presult` output to the `fap-tech` command.

763507	When WiFi Controller won't overwrite FortiAP WAN port authentication, FortiAP can configure its own 802.1X supplicant locally.
	New cfg variables:
	`WAN_1X_ENABLE` WAN port 802.1x supplicant enable/disable
	[0(Disabled), 1(Enabled)]. default=0
	`WAN_1X_USERID` WAN port 802.1x supplicant user ID
	`WAN_1X_PASSWD` WAN port 802.1x supplicant password
	`WAN_1X_METHOD` WAN port 802.1x supplicant EAP methods
	[0(EAP-ALL), 1(EAP-FAST), 2(EAP-TLS), 3(EAP-PEAP)]. default=0
	Diagnose command:
	`cw_diag -c wan1x`
	`cw_diag -c wan1x [show-ca-cert|show-client-cert|del-all|del-ca-cert|del-client-cert|del-private-key|[<get-ca-cert|get-client-cert|get-private-key> <TFTP server IP> <file name>]]`

769599	Add new command to enable/disable FIPS mode: `fips-cc [enable | disable]`

Special notice

FAP-U431F and FAP-U433F firmware version 6.2.2 requires a mandatory change in data partitions, so they can NOT be directly upgraded from 6.2.1 to 6.2.2 or later versions. If your FAP-U431F and FAP-U433F units are currently running firmware version 6.2.1 or earlier and are managed by a FortiGate or FortiLAN Cloud, follow the instructions below to upgrade them.

⚠ FAP-U431F and FAP-U433F running firmware version 6.2.2 and later can no longer be managed by FortiWLC. A factory reset will reset FAP-U431F and FAP-U433F to the default configuration for FortiGate and FortiLAN Cloud management only.

1. Ensure your FAP-U431F and FAP-U433F units are running FAP-U 6.2.1 GA build 0237.
2. Upgrade them to the special transit images `FAP_U431F-v6-build4001-FORTINET.out` and `FAP_U433F-v6-build4001-FORTINET.out` respectively, which are available in the FortiAP-U 6.2.2 image folder on the support site.
3. On FAP-U431F and FAP-U433F units running the special build 4001, continue to upgrade them to firmware version 6.2.4.

You may receive a downgrade note when implementing step 3 on the FortiGate GUI. This is due to the special build number 4001 being read as higher than the GA build number. The process is not a downgrade and the note can be ignored.

Upgrade and downgrade information

Upgrading to FortiAP-U version 6.2.4

FortiAP-U version 6.2.4 supports upgrading from FortiAP-U version 6.2.2 and later.

Downgrading to previous firmware version

FortiAP-U version 6.2.4 supports downgrading to FortiAP-U version 6.2.2 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 Customer Service and Support website.
2. Log in to your account. If you do not have an account, create one and then log in.
3. Select **Download > Firmware Image Checksums**.
4. Enter the image file name including the extension.
5. Click **Get Checksum Code**.

Product integration and support

The following table lists the product integration and support information for FortiAP-U version 6.2.4:

Item	Supported versions
FortiOS	6.0.6, 6.2.2, 6.4.3, 7.0.0, 7.2.0 and later. **Note:** • FAP-U431F and FAP-U433F are only supported by FortiOS 6.2.2 and later. • FAP-U231F is only supported by FortiOS 6.4.3 and later. • FAP-U234F and FAP-U432F are only supported by FortiOS 6.4.4 and later.
FortiWLC-SD	8.5.1 and later.
Web browsers	• Microsoft Edge 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 function correctly but Fortinet does not support them.
AV Engine	6.00252 and later.
IPS Engine	6.00064 and later.

FortiGate WiFi Controller should use a FortiOS version listed in the preceding table. Other variations of FortiOS and FortiAP-U versions may technically work, but are not guaranteed full functionality. If problems arise, the FortiGate device may need to be upgraded to the latest FortiOS GA version.

Resolved issues

The following issues have been resolved in FortiAP-U version 6.2.4. For more details about a particular bug, visit the Fortinet Customer Service & Support website.

Bug ID	Description
680851, 721678, 721679	FAP-U231F, U234F and U432F cannot report Spectrum Analysis results to FortiGate.
701925, 776980	Fixed false radar detection issues when using DFS channels.
721629	FAP-U431F with `dtls-policy=ipsec-vpn` cannot connect to FortiGate if it is behind another firewall or NAT device.
727279	FAP-U gets disconnected from FortiLAN Cloud with the reason "received unexpected discovery".
743464	When managed by a FortiGate, the max transmit power of FAP-U323EV was lower than expected. **Note:** The previous fix in FAP-U 6.2.3 release has been reverted.
747843	FAP-U radio transmission would freeze when kept busy.
751919	FAP-U431F encountered a kernel panic issue when client load was high.
758723	FAP-U failed to apply the new AC IP address obtained from DHCP option code 138.
758736	FAP-U UTM module should print IPS event logs when IPS action is set to Monitor.
762095	Synchronize FortiPresence data reporting based on the system time of WiFi controller.
765491	Post upgrade forces user to change their password even if a valid and complex password has been set already; then the FAP-U device reboots automatically.
771407	FAP-U did not fill "System Description" properly in the LLDP report to the peer node and the controller.
771887	Captive-portal exempted users are not able to ping each other or other clients on same SSID.
778008	FAP-U431F encountered kernel panic `PC is at wlc_ampdu_resp_timeout+0xd4/0x258 [wl].`
782825	WiFi clients cannot complete authentication on WPA2-Enterprise SSID in time after manually inputting their username and password.
786149	FAP-U431F experienced memory leak when managed by FortiLAN Cloud

Common vulnerabilities and exposures

FortiAP-U 6.2.4 is no longer vulnerable to the following CVE-Reference:

Bug ID	CVE References
802453	CVE-2022-30301: Relative path traversal vulnerability in CLI.
786641	CVE-2022-29058: Command injection in CLI.

Visit https://fortiguard.com for more information.

Known issues

The following capabilities are not supported by FortiAP-U 6.2.4 when managed by a FortiGate or FortiLAN Cloud:

Bug ID	Description
587771	Config mode support via Reset button.
587774	FAP-U direct REST API support.
587804	Hotspot 2.0 Feature Support.
588016	Support for L2TP & GRE Tunnels on local-bridging SSID.
663672	Support ESL USB Dongle (Hanshow) on 802.11ax Series.
739303	Support Electronic Shelf Label Products (SES-Imagotag).

In general, features not explicitly mentioned in New features or enhancements and previous versions, are not supported.

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