FortiAP-U - Release Notes

Version 6.0.2

FORTINET DOCUMENT LIBRARY
https://docs.fortinet.com

FORTINET VIDEO GUIDE
https://video.fortinet.com

FORTINET BLOG
https://blog.fortinet.com

CUSTOMER SERVICE & SUPPORT
https://support.fortinet.com

FORTINET TRAINING & CERTIFICATION PROGRAM
https://www.fortinet.com/support-and-training/training.html

NSE INSTITUTE
https://training.fortinet.com

FORTIGUARD CENTER
https://fortiguard.com/

END USER LICENSE AGREEMENT
https://www.fortinet.com/doc/legal/EULA.pdf

FEEDBACK
Email: techdoc@fortinet.com

April 23, 2020
FortiAP-U 6.0.2 Release Notes
42-602-613631-20200423

TABLE OF CONTENTS

Change log 4
Introduction 5
Supported models 5
What's new in FortiAP-U version 6.0.2 5
Special notice 6
Upgrade information 7
Upgrading from FortiAP-U version 6.0.1 7
Downgrading to previous firmware version 7
Firmware image checksums 7
Product integration and support 8
Resolved issues 9
Common vulnerabilities and exposures 9
Known issues 10

Change log

Date	Change description
2020-03-03	Initial release for FortiAP-U 6.0.2.
2020-04-23	Added a note to Product integration and support on page 8 about supported firmware.

Introduction

This document provides the following information for FortiAP-U version 6.0.2 build 0028:

- Supported models
- What's new in FortiAP-U version 6.0.2
- Special notice
- Upgrade information
- Product integration and support
- Resolved issues
- Known issues

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

Supported models

FortiAP-U version 6.0.2 supports the following models:

Models
FAP-U221EV, FAP-U223EV FAP-U24JEV FAP-U321EV, FAP-U323EV FAP-U421EV, FAP-U422EV, FAP-U423EV FAP-U431F, FAP-U433F

What's new in FortiAP-U version 6.0.2

The following is a list of new features and enhancements in FortiAP-U version 6.0.2:

- New shipments of FAP-U431F and FAP-U433F units have updated Common Firmware Environments (CFE) to improve the robustness of writing and reading flash blocks.

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

FortiAP-U version 6.0.2 supports the following new features, when managed by a FortiGate running FortiOS version 6.2.3 and later, or by FortiAP Cloud:

- Added support for the Network Time Protocol (NTP) service.
- FAP-U431F and FAP-U433F support Datagram Transport Layer Security (DTLS) in kernel option for CAPWAP data encryption.
- FAP-U431F and FAP-U433F support Bluetooth Low Energy (BLE) function.
- FAP-U431F and FAP-U433F support up to 500 WiFi stations per radio.

- FAP-U431F and FAP-U433F are compatible with IEEE 802.3af PoE input.
  - With a single 802.3af PoE on either the LAN1 or LAN2 port, FAP-U431F and FAP-U433F limit the 1st and 2nd radios to operate on 2 spatial streams only, and disable the 3rd radio.
  - With dual 802.3af PoEs on both LAN1 and LAN2 ports, FAP-U431F and FAP-U433F support the same full set of functionalities as powered by IEEE 802.3at PoE.
- FAP-U431F and FAP-U433F support the 2.4GHz 802.11ax band on the 2nd radio when the platform mode is "single-5G".
- FAP-U431F and FAP-U433F support Zero-Wait Dynamic Frequency Selection (DFS).
- FAP-U431F and FAP-U433F with region code E, I, V, Y, D, N, and A support DFS channels and 160MHz channel bonding.

  Note: FortiOS version 6.2.4 and later will support the configuration.

Special notice

FortiGates running FortiOS version 6.2.3 have the following limitations when managing FAP-U431F and FAP-U433F.

- Some radio channels might be unavailable in certain countries or regions, such as EU countries.

  By default, FAP-U431F and FAP-U433F profiles have a "`dual-5G`" platform mode. This "`dual-5G`" platform mode sets the second radio of FAP-U431F and FAP-U433F devices to the upper 5GHz band including channels 100~144 and 149~165. However, those channels are not available in all countries or regions (e.g. EU countries) due wireless regulations and/or DFS certifications.

  To work around this issue, edit the `wtp-profile` of your FAP-U431F or FAP-U433F devices, and set the platform mode to "`single-5G`" via the FortiGate CLI.

Upgrade information

Upgrading from FortiAP-U version 6.0.1

FortiAP-U version 6.0.2 supports upgrading from FortiAP-U version 6.0.1.

Downgrading to previous firmware version

FortiAP-U version 6.0.2 supports downgrading to FortiAP-U version 6.0.1.

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 login.
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 6.0.2:

Item	Supported versions
FortiOS	6.0.6, 6.2.2 and later **Note:** FAP-U431F and FAP-U433F are only supported by FortiOS 6.2.2 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.

We recommend that customers use a FortiOS version listed in the support table. Other variations of FortiOS and FortiAP-U versions may technically work, but are not guaranteed full functionality. If problems arise, Fortinet Support will ask that you use the recommended version before troubleshooting.

Resolved issues

The following issues have been resolved in FortiAP-U version 6.0.2. For more details about a particular bug, visit the Fortinet Customer Service & Support website.

Bug ID	Description
547865	FAP-U431F and U433F cannot support Bluetooth Low Energy (BLE) function.
599043	FAP-U CLI should support "`cw_diag -c all-countries`".
600464	Block Intravap traffic from getting applied to the wrong SSID when roaming from one AP to another.
603422	CAPWAP process become stuck, which leads to watchdog trigger followed by reboot.

Common vulnerabilities and exposures

FortiAP-U 6.0.2 is no longer vulnerable to the following CVE-References:

- CVE-2004-1653
- CVE-2019-15709

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

Known issues

The following table lists capabilities that are not supported by FortiAP-U 6.0.2 when managed by a FortiGate or FortiCloud:

Bug ID	Description
564316	Receiver Start of Packet Detection Threshold (RX-SOP).
566884	QoS profile (traffic shaper, WMM call admission control, override DSCP mapping for WMM clients).
586196	Detailed wireless event logs for trouble shooting.
587765	Airtime Fairness.
587776	VLAN Probe tool.
587779	Extension information for statistics of AP, SSID, and station.
587802	WPA3 security modes.
588019	Unified schedules for DARRP, background scan, SSID up/down state, LED on/off state, and multiple pre-shared key (MPSK).
588023	External captive portal on local-bridging SSID.
588034	MAC address filter on local-standalone SSID.

In general, features not explicitly mentioned in What's new in FortiAP-U version 6.0.2 and previous versions, are not supported.