



# Release Notes

**FortiExtender 7.6.5**



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FortiExtender 7.6.5 Release Notes

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# TABLE OF CONTENTS

<b>Change log</b> .....	<b>4</b>
<b>Introduction</b> .....	<b>5</b>
Supported hardware models .....	5
<b>New features or enhancements</b> .....	<b>7</b>
<b>Special notices</b> .....	<b>8</b>
<b>Upgrade instructions</b> .....	<b>9</b>
Firmware upgrade procedures .....	9
<b>Product integration and support</b> .....	<b>10</b>
FortiOS-FortiExtender OS compatibility .....	10
Modes of operation .....	10
Supported Web browsers .....	10
<b>Resolved issues</b> .....	<b>11</b>
<b>Known issues</b> .....	<b>12</b>

# Change log

Date	Change Description
2026-02-13	Initial release.
2026-02-19	Updated <a href="#">Known issues on page 12</a> .

# Introduction

This document provides release information for FortiExtender 7.6.5, build 0520.

For more information about your FortiExtender device, refer to the FortiExtender [Admin Guide](#) (FGT-Managed) or [Admin Guide](#) (Standalone).

## Supported hardware models

FortiExtender 7.6.5 supports the following hardware models:

FortiBranchSASE Model	Market
FortiBranchSASE-10F-WiFi	Global
FortiBranchSASE-20G	Global
FortiBranchSASE-20G-WiFi	Global

FortiExtender Model	Market
FortiExtender 211E	Global
FortiExtender 101F-AM	North America
FortiExtender 101F-EA	EMEA, Brazil, and some APAC carriers
FortiExtender 200F	Global
FortiExtender 201F-AM	North America
FortiExtender 201F-EA	EMEA, Brazil, and some APAC carriers
FortiExtender 202F-AM	North America
FortiExtender 202F-EA	EMEA, Brazil, and some APAC carriers
FortiExtender 212F	Global
FortiExtender 311F	Global
FortiExtender 511F	Global
FortiExtender 101G	Global
FortiExtender 211G	Global
FortiExtender-Ruggedized-511G	Global
FortiExtender 511G	Global

FortiExtender Model	Market
FortiExtender 511G-WiFi	Global

FortiExtender Vehicle Model	Market
FortiExtenderVehicle 211F	Global
FortiExtenderVehicle 211F-AM	North America
FortiExtenderVehicle 212F	Global
FortiExtenderVehicle 212F-AM	North America
FortiExtenderVehicle 511G	Global

For more information about FortiExtender OS and hardware compatibility, see the [FortiExtender OS & Hardware Platform Compatibility Matrix](#).



All built-in modems can be upgraded with compatible, wireless service provider-specific modem firmware.



FortiExtender 211E, 101F, 201F, 202F, 212F, 311F, 511F, and FortiExtenderVehicle 211F devices come with a Bluetooth button that activates the Bluetooth radio. The Bluetooth radio is turned off by default to prevent unauthorized access. When it is turned on, any nearby device can attempt to connect.

Fortinet recommends always securing your FortiExtender by setting a strong admin password and disabling Bluetooth when not in use. Only press the Bluetooth button when you are ready to pair a device. Do not leave a FortiExtender in pairing mode unattended.

# New features or enhancements

FortiExtender 7.6.5 offers the following new features and enhancements:

- Add support for null encryption (null-sha1 and null-sha256) when configuring IPsec VPN Phase 2 interface (Standalone).
- Support IPv6 prefix delegation with SLAAC (Standalone).
- Revamp the FortiExtender GUI with a new layout (Standalone).
- Add support for IPv6 IPsec VPN, including IPv6 transport, Phase 2 traffic selectors, and dual-stack support (Standalone).
- Add support for configuring DHCP6 servers on physical, switch, and Wi-Fi LAN interfaces (Standalone).
- Add support for IPv6 on Wi-Fi LAN and Wi-Fi WAN interfaces (Standalone).
- Add support for IPv6 when configuring SNMP hosts (Standalone).
- A limited number of SNMP Object Identifiers (OIDs) have been updated.
- The data types of a few OIDs have been adjusted to ensure full consistency between the MIB definitions and the values returned by the FortiExtender.
- Add support for IPv6 when configuring a redirect portal IP (Standalone).
- Wi-Fi LAN mode now supports IPv6 for both the RADIUS authentication server and the Source IP address used for communication with the RADIUS server in WPA2 and WPA3 Enterprise security modes (Standalone).
- Captive portals now support IPv6 captive portal servers and IPv6 security exempt lists (Standalone).
- Add a login timeout period when accessing a FortiExtender device via SSH. After five failed login attempts, there will be a ten minute temporary lockout period before the user is allowed to try again (Standalone).
- Improve LTE/5G service quality in FER-511G and FEV-511G models by adding an option to offload traffic to a dedicated coprocessor when operating in local NAT mode (Standalone).
- Add support for Assisted GPS (A-GPS) on all G-series FortiExtender models.  
**Note:** On FEX-511G and FEX-511G-WiFi, the APN must be configured before the A-GPS feature can work.
- Add support for saving OBM console log outputs to a local USB or a remote FTP, SFTP, SMB, or NFS server (Standalone).
- Add support for CHAP authentication with order of APNs when configuring multiple Packet Data Networks (PDN) (Managed).  
**Note:** This feature is dependent on whether the ISP also supports it.

# Special notices

- For FortiExtender 511F devices, the Telstra modem must connect to an LTE/5G network following the first attach request.
- For FortiExtender 511F devices, the Telstra modem requires that a PDN be set for each and every LTE data plan.
- Not all receivers can receive SMS notifications. Be sure to adjust the receiver sequence to ensure that the first receiver always gets SMS notifications.
- Upon reboot, FortiExtender will try to discover the FortiGate or FortiEdge Cloud that manages it, depending on your existing configuration. Because of this, there might be a short delay before the device reconnects to the FortiGate or FortiEdge Cloud.
- In order for FortiExtender to forward syslog messages to a remote syslog server, the syslog server and the FortiExtender LAN port must be part of the same subnet.
- FortiExtender and FortiGate share the same LTE IP in WAN-extension mode. To distinguish local services from FortiGate services, you must configure FortiExtender to use different ports. Otherwise, all traffic to these default services will be sent to FortiExtender locally instead of the FortiGate.
- To avoid a known Quectel RACH issue on FEX-511F, Fortinet has disabled T-Mobile 5G Band n41 (see [Known issues on page 12](#)).

# Upgrade instructions

You can upgrade to the FortiExtender 7.6.5 OS image from FortiExtender 7.0 or later.

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FEX-211E, FEX-101F, FEX-201F, FEX-202F, FEX-212F, FEX-311F, FEX-511F, and FEV-211F devices may not be loaded with the latest modem firmware when shipped. To ensure their optimal performance, you **MUST** upgrade their modem firmware with the firmware package (preferably version 22.0.0 or later) specific to your wireless service provider before putting the devices into operation.

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## Firmware upgrade procedures

You can download and install the modem firmware upgrade package in its entirety using the FortiOS CLI, or the FortiExtender GUI or CLI.

### To upgrade via the FortiExtender GUI:

1. Log into your FortiExtender.
  2. On the navigation bar on the left, click *Settings*.
  3. From the top of the page, select *Firmware*.
  4. Select *Extender Upgrade > Local*.
- 



When connected to the internet, FortiExtender is able to pull the OS images and modem firmware directly from FortiEdge Cloud, irrespective of its deployment status.

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# Product integration and support

## FortiOS-FortiExtender OS compatibility

FortiExtender 7.6.5 supports all FortiOS releases since FortiOS 6.2.0. For more information, see [FOS & FortiExtender OS Compatibility Matrix](#).

## Modes of operation

FortiExtender 7.6.5 can be managed from FortiGate or FortiEdge Cloud, or locally independent of FortiGate or FortiEdge Cloud. When deployed in the Cloud, FortiExtender can be centrally managed from FortiEdge Cloud; when managed by FortiGate, the device searches for a nearby FortiGate to transition to Connected UTM mode; when managed locally, it functions as a router providing services to other devices. For more information, see [FortiEdge Cloud Admin Guide](#) and [FortiExtender \(managed\) 7.6.0 Admin Guide](#).

The table below describes FortiExtender's modes of operations in these scenarios.

Management scenario	Mode of operation	
	NAT	IP Pass-through
FortiGate	No	Yes
FortiEdge Cloud	Yes	Yes
Local	Yes	Yes

## Supported Web browsers

FortiExtender 7.6.5 supports the latest versions of the following web browsers:

- Google Chrome
- Mozilla Firefox



Other web browsers may function as well, but have not been fully tested.

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# Resolved issues

There are no resolved issues in this release. For inquiries about a particular bug, visit the [Fortinet Support](#) website.

The following issues have been resolved in FortiExtender 7.6.5. For inquiries about a particular bug, visit the [Fortinet Support](#) website.

Bug ID	Description
1186131	Due to a certificate naming mismatch, the following FortiExtender models have compatibility issues and cannot establish CAPWAP with FortiGate E-series: <ul style="list-style-type: none"><li>• FEX-101G</li><li>• FEX-211G</li><li>• FEV-511G</li><li>• FER-511G</li></ul>
1188385	SSH access to the FortiExtender stops after mapping credential plans from FortiEdge Cloud.
1200738	CHAP authentication based APN not working in FortiExtenderRugged-511G.
1208933	Cannot create VLAN interfaces from the GUI.
1211831	IPSec VPN throughput performance issue FEX-511G
1237556	The default lte1 route is missing an interface and becomes inactive after upgrading from FEX 7.0.0.

# Known issues

The following known issues have been identified in FortiExtender 7.6.5. For inquiries about a particular bug, visit the [Fortinet Support](#) website.

Bug ID	Description
0720017	SMS notification is not supported on FortiExtender 511F, 311F, or 101F.
0952615	To avoid a known Quectel RACH issue on FEX-511F, Fortinet has disabled T-Mobile 5G Band n41.
1013515	Depending on the type of serial cable you use, the number of USB OBM connections may be limited on FEX-200F, 201E, 211E, 101F, 201F, 202F, 212F, 311F, and 511F models. When using a 1-16 USB-Serial adapter, those models can only detect 11 ports. When using a 1-4 USB hub with four 1-4 USB-Serial adapters, those models can detect 16 ports.
1228910	A modem vendor issue prevents PAP username/password-based APN authentication from working with T-Mobile on FEX-101G and 211G models in Germany.



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