

# FortiSwitch Devices Managed by FortiOS Release Notes

Version 6.4.1

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# TABLE OF CONTENTS

<b>Change log</b> .....	<b>4</b>
<b>Introduction</b> .....	<b>5</b>
Supported models.....	5
What's new in FortiOS 6.4.1.....	6
<b>Special notices</b> .....	<b>7</b>
Support of FortiLink features.....	7
<b>Upgrade information</b> .....	<b>10</b>
Cooperative Security Fabric upgrade.....	10
<b>Product integration and support</b> .....	<b>11</b>
FortiSwitch 6.4.1 support.....	11
<b>Resolved issues</b> .....	<b>12</b>
<b>Known issues</b> .....	<b>13</b>

# Change log

Date	Change Description
June 4, 2020	Initial document release for FortiOS 6.4.1
September 1, 2021	Updated the “Support of FortiLink features” section.
September 2, 2021	Updated the “Support of FortiLink features” section.

# Introduction

This document provides the following information for FortiSwitch 6.4.1 devices managed by FortiOS 6.4.1 build 1637.

- [Special notices on page 7](#)
- [Upgrade information on page 10](#)
- [Product integration and support on page 11](#)
- [Resolved issues on page 12](#)
- [Known issues on page 13](#)

See the [Fortinet Document Library](#) for FortiSwitch documentation.

**NOTE:** FortiLink is not supported in transparent mode.

The maximum number of supported FortiSwitch units depends on the FortiGate model:

FortiGate Model Range	Number of FortiSwitch Units Supported
FortiGate 91E, FortiGate-VM01	8
FortiGate 6xE, 8xE, 90E	16
FortiGate 100D, FortiGate-VM02	24
FortiGate 100E, 100EF, 101E, 140E, 140E-POE	32
FortiGate 200E, 201E	64
FortiGate 300D to 500D	48
FortiGate 300E to 500E	72
FortiGate 600D to 900D and FortiGate-VM04	64
FortiGate 600E to 900E	96
FortiGate 1000D to 15xxD	128
FortiGate 1100E to 25xxE	196
FortiGate-3xxx and up and FortiGate-VM08 and up	300

## Supported models

Refer to the [FortiLink Compatibility table](#) to find which FortiSwitchOS versions support which FortiOS versions.



New models (NPI releases) might not support FortiLink. Contact [Customer Service & Support](#) to check support for FortiLink.

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## What's new in FortiOS 6.4.1

This release is a patch release only. No new managed FortiSwitch features have been added in FortiOS 6.4.1.

# Special notices

## Support of FortiLink features

The following table lists the FortiSwitch models supported by FortiLink features.

FortiLink Features	FortiSwitch Models
Centralized VLAN Configuration	D-series, E-series
Switch POE Control	D-series, E-series
Link Aggregation Configuration	D-series, E-series
Spanning Tree Protocol (STP)	D-series, E-series
LLDP/MED	D-series, E-series
IGMP Snooping	Not supported on 112D-POE
802.1x Authentication (Port-based, MAC-based, MAB)	D-series, E-series
Syslog Collection	D-series, E-series
DHCP Snooping	Not supported on 1xxE-Series
Device Detection	D-series, E-series
Support FortiLink FortiGate in HA Cluster	D-series, E-series
LAG support for FortiLink Connection	D-series, E-series
Active-Active Split MLAG from FortiGate to FortiSwitch units for Advanced Redundancy	Not supported on FS-1xx Series
sFlow	Not supported on 1xxE-Series
Dynamic ARP Inspection (DAI)	D-series, E-series
Port Mirroring	D-series, E-series
RADIUS Accounting Support	Not supported on 1xxE-Series
Centralized Configuration	D-series, E-series

FortiLink Features	FortiSwitch Models
Access VLAN	D-series, E-series
STP BDPU Guard, Root Guard, Edge Port	D-series, E-series
Loop Guard	D-series, E-series
Switch admin Password	D-series, E-series
Storm Control	D-series, E-series
802.1x-Authenticated Dynamic VLAN Assignment	D-series, E-series
Host Quarantine on Switch Port	D-series, E-series
QoS	Not supported on 1xxE-Series or 112D-POE
Centralized Firmware Management	D-series, E-series
Automatic network detection and configuration	D-series, E-series
Dynamic VLAN assignment by group name	D-series, E-serie
Sticky MAC addresses	D-series, E-series
NetFlow and IPFIX flow tracking and export	D-series, E-series
FortiSwitch split ports	524D, 524D-FPOE, 548D, 548D-FPOE, 1048E, 3032D
Encapsulated remote switched port analyzer (ERSPAN)	2xx and higher
MSTP instances	D-series, E-series
<b>NOTE:</b> In FortiLink mode, the FortiGate unit supports 1-14 instances for all platforms.	
QoS statistics	D-series, E-series
Configuring SNMP through FortiLink	D-series, E-series
IPv4 source guard	FSR-124D, FS-224D-FPOE, FS-248D, FS-424D-POE, FS-424D-FPOE, FS-448D-POE, FS-448D-FPOE, FS-424D, FS-448D, and FS-2xxE
Integrated FortiGate network access control (NAC) function	D-series, E-series
FortiGuard IoT identification	D-series, E-series

FortiLink Features	FortiSwitch Models
Point-to-point layer-2 network supported	Not supported on FS-108E, FS-108E-POE, FS-108E-FPOE, FS-124E, FS-124E-POE, FS-124E-FPOE, FS-148E, and FS-148E-POE
Dynamic detection of LLDP neighbor devices	D-series, E-series

# Upgrade information

FortiSwitch 6.4.1 supports upgrading from FortiSwitch 3.5.0 and later.

To upgrade, refer to the FortiOS upgrade path at <https://support.fortinet.com/Download/FirmwareImages.aspx>.

## Cooperative Security Fabric upgrade

FortiOS 5.4.1 greatly increases the interoperability between other Fortinet products. This includes:

- FortiClient 5.4.1
- FortiClient EMS 1.0.1
- FortiAP 5.4.1
- FortiSwitch 3.4.2

The upgrade of the firmware for each product must be completed in a precise order so the network connectivity is maintained without the need of manual steps. Customers must read the following two documents prior to upgrading any product in their network:

- *Cooperative Security Framework - Upgrade Guide*
- *FortiOS 5.4.0 to 5.4.1 Upgrade Guide for Managed FortiSwitch Devices*

This document is available in the Customer Support Firmware Images download directory for FortiSwitch 3.4.2.

# Product integration and support

## FortiSwitch 6.4.1 support

The following table lists 6.4.1 product integration and support information.

<b>Web browser</b>	<ul style="list-style-type: none"><li>• Mozilla Firefox version 52</li><li>• Google Chrome version 56</li></ul> <p>Other web browsers may function correctly, but are not supported by Fortinet.</p>
<b>FortiOS (FortiLink Support)</b>	Refer to the <a href="#">FortiLink Compatibility table</a> to find which FortiSwitchOS versions support which FortiOS versions.

## Resolved issues

The following issues have been fixed in 6.4.1. For inquiries about a particular bug, please contact [Customer Service & Support](#).

Bug ID	Description
613323	FortiSwitch trunk configuration sync issue after FortiGate failover.
620303	The <code>mgmt-vlanid</code> setting can only be changed when FortiLink is disabled. You must use the CLI to change this setting.
622812	VLANs on a FortiLink interface configured to use a hardware switch interface may fail to come up after upgrading or rebooting.
623550	Before FortiOS 6.4.0, the default VLAN name was <code>vsw.&lt;fortilink interface name&gt;</code> . Starting in FortiOS 6.4.0, the default VLAN name is <code>default</code> . After upgrading FortiOS from 6.2.3 to 6.4.0, FortiOS still uses <code>vsw.fortilink</code> as the default VLAN, resulting in a “Potential conflict of <code>vlanid(1)</code> with <code>initial-config.template(default)</code> and interface <code>(vsw.fortilink)</code> ... please verify” warning.
628121	There are FortiLink config sync errors when running FortiOS 6.4.0 and FortiSwitch 6.2.x. Users can ignore these errors.

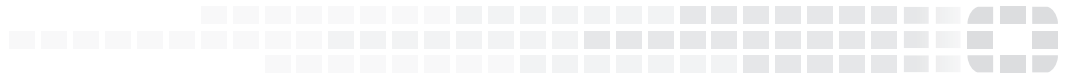
## Known issues

The following known issues have been identified with 6.4.1. For inquiries about a particular bug or to report a bug, please contact [Fortinet Customer Service & Support](#).

Bug ID	Description
298348, 298994	Enabling the <code>hw-switch-ether-filter</code> command on the FG-92D model (the default setting) causes FortiSwitch devices to not be discovered.
527695	<p>Starting in FortiOS 6.4.0, VLAN optimization is enabled by default (<code>set vlan-optimization enable</code> under <code>config switch-controller global</code>). On a network running FortiSwitchOS earlier than 6.0.0, this change results in a synchronization error, but the network still functions normally. If you have FortiSwitchOS 6.0.x, you can upgrade to remove the synchronization error or disable VLAN optimization.</p> <p>On a network with <code>set allowed-vlans-all enable</code> configured (under <code>config switch-controller vlan-policy</code>), the setting reverts to the default, which is disabled, when upgrading to FortiOS 6.4.0. If you want to maintain the <code>allowed-vlans-all</code> behavior, you can restore it after the upgrade.</p>
586801	NetBIOS stops working when proxy ARP is configured and the access VLAN is enabled because FortiGate units do not support NetBIOS proxy.
607753	CAPWAP is not updated to be a Fabric connection after upgrading from 6.4.0 Beta1 build 1519 to build 1538.
621785	<code>user.nac-policy[].switch-scope</code> might contain a data reference to <code>switch-controller.managed-switch</code> . When this reference is set by an admin, the admin needs to remove this reference before deleting the <code>managed-switch</code> .



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