



# FortiSwitch Devices Managed by FortiOS Release Notes

Version 6.4.3

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# Change log

Date	Change Description
October 22, 2020	Initial document release for FortiOS 6.4.3
September 1, 2021	Updated the “Support of FortiLink features” section.

# Introduction

This document provides the following information for FortiSwitch 6.4.3 devices managed by FortiOS 6.4.3 build 1778.

- [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 6.4.3

The following list contains new managed FortiSwitch features added in FortiOS 6.4.3:

- You can now configure the `lldp-status` and `lldp-profile` settings for a virtual switch port in a tenant VDOM.
- FortiLink and switch controller logs are now available in the *FortiSwitch Events* category in the *Log & Report > Events* page.
- The Diagnostics and Tools form now includes a *Logs* button, which provides logs for that FortiSwitch unit.
- When the RADIUS server cannot be reached for 802.1x authentication, the device trying to authenticate is placed into a RADIUS timeout VLAN after the authentication server timeout period expires.
- Flow control and ingress pause metering are now supported on managed FortiSwitch units. Pause metering allows the FortiSwitch unit to apply flow control to ingress traffic when the queue is congested and to resume after the queue is cleared.
- You can now configure a FortiLink-over-layer-3 network to use the FortiLink interface as the source IP address for the communication between the FortiGate unit and the FortiSwitch unit. The FortiOS default of using the outbound interface as the source IP address is still available.
- Starting in FortiOS 6.4.3, IoT detection can be also managed per FortiLink interface. IoT detection is disabled by default on the FortiLink interface. Use the FortiOS CLI or GUI to enable IoT detection on the FortiLink interface so that the FortiSwitch unit starts scanning for IoT devices.

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

FortiLink Features	FortiSwitch Models
Block Intra-VLAN Traffic	D-series, E-series, F-series
STP BDPU Guard, Root Guard, Edge Port	D-series, E-series, F-series
Loop Guard	D-series, E-series, F-series
Switch admin Password	D-series, E-series, F-series
Storm Control	D-series, E-series, F-series
802.1x-Authenticated Dynamic VLAN Assignment	D-series, E-series, F-series
Host Quarantine on Switch Port	D-series, E-series, F-series
QoS	Not supported on FSR-112D-POE
Centralized Firmware Management	D-series, E-series, F-series
Automatic network detection and configuration	D-series, E-series, F-series
Dynamic VLAN assignment by group name	D-series, E-series, F-series
Sticky MAC addresses	D-series, E-series, F-series
NetFlow and IPFIX flow tracking and export	D-series, E-series, F-series
FortiSwitch split ports	FS-524D, FS-524D-FPOE, FS-548D, FS-548D-FPOE, FS-1048E, FS-3032D, and FS-3032E
Encapsulated remote switched port analyzer (ERSPAN)	FS-2xx and higher
MSTP instances	D-series, E-series, F-series
<b>NOTE:</b> In FortiLink mode, the FortiGate unit supports 1-14 instances for all platforms.	
QoS statistics	D-series, E-series, F-series
Configuring SNMP through FortiLink	D-series, E-series, F-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, FS-2xxE, and FS-4xxE
Integrated FortiGate network access control (NAC) function	D-series, E-series, F-series
FortiGuard IoT identification	D-series, E-series, F-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, F-series
Explicit congestion notification (ECN)	FS-1024D, FS-1048D, FS-1048E, FS-3032D, FS-3032E, FS-4xxE, and FS-5xxD
Aggregation mode selection for trunk members	D-series, E-series, F-series
Multiple attribute values sent in a RADIUS Access-Request	D-series, E-series, F-series
PTP transparent-clock mode	FS-1048E, FS-224D, FS-224E, FS-3032D, FS-3032E, FS-424D, FS-4xxE, and FS-5xxD
Rapid PVST interoperation	D-series, E-series, F-series
Support of matching EMS tags in NAC policies	D-series, E-series, F-series
Flash port LEDs	D-series, E-series, F-series
Cable diagnostics	Not supported on FSR-112D-POE, FS-1024D, FS-1048D, FS-1048E, FS-3032D, or FS-3032E
Automated detection and recommendations	D-series, E-series, F-series
Flow control	D-series, E-series, F-series
Ingress pause metering	200 series, 400D and 400E series, 500 series, FS-1024D, FS-1048D, FS-1048E, and FS-3032D

## Upgrade information

FortiSwitchOS 6.4.3 supports upgrading from FortiSwitchOS 3.5.0 and later.

To determine a compatible FortiOS version, check the FortiLink Compatibility matrix (<https://docs.fortinet.com/document/fortiswitch/6.4.3/fortilink-compatibility>).

Within the Security Fabric, the FortiSwitch upgrade is done after the FortiGate upgrade. Refer to the latest *FortiOS Release Notes* for the complete Security Fabric upgrade order. See <https://docs.fortinet.com/document/fortigate/6.4.3/fortios-release-notes>.

# Product integration and support

## FortiSwitchOS 6.4.3 support

The following table lists FortiSwitchOS 6.4.3 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 6.4.3. For inquiries about a particular bug, please contact [Customer Service & Support](#).

Bug ID	Description
649913	The HA cluster does not synchronize when configuring an active LACP with MCLAG using FortiManager.
652745	When adding the serial number for a FortiSwitch 424E-Fiber unit to a FortiGate device in the 6.0 branch, the result is an “Invalid FortiSwitch serial number” error.

## Known issues

The following known issues have been identified with 6.4.3. 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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