



FortiSwitch Devices Managed by FortiOS Release Notes

Version 6.4.12

FORTINET DOCUMENT LIBRARY

<http://docs.fortinet.com>

FORTINET VIDEO GUIDE

<http://video.fortinet.com>

FORTINET BLOG

<https://blog.fortinet.com>

CUSTOMER SERVICE & SUPPORT

<https://support.fortinet.com>

<http://cookbook.fortinet.com/how-to-work-with-fortinet-support/>

FORTIGATE COOKBOOK

<http://cookbook.fortinet.com>

FORTINET TRAINING SERVICES

<http://www.fortinet.com/training>

FORTIGUARD CENTER

<http://www.fortiguard.com>

FORTICAST

<http://forticast.fortinet.com>

END USER LICENSE AGREEMENT

<http://www.fortinet.com/doc/legal/EULA.pdf>

FORTINET PRIVACY POLICY

<https://www.fortinet.com/corporate/about-us/privacy.html>

FEEDBACK

Email: techdocs@fortinet.com



FortiSwitch Devices Managed by FortiOS Release Notes

February 23, 2023

11-6412-880324-20230223

TABLE OF CONTENTS

Change log	4
Introduction	5
Supported models	5
What's new in FortiOS 6.4.12	6
Special notices	7
Support of FortiLink features	7
Upgrade information	10
Product integration and support	11
FortiSwitchOS 6.4.12 support	11
Resolved issues	12
Known issues	13

Change log

Date	Change Description
February 23, 2023	Initial document release for FortiOS 6.4.12

Introduction

This document provides the following information for FortiSwitch 6.4.12 devices managed by FortiOS 6.4.12 build 2060.

- [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 40F, 91E, FortiGate-VM01	8
FortiGate 60F, 6xE, 80F, 8xE, 90E	16
FortiGate 100D, FortiGate-VM02	24
FortiGate 100E, 100EF, 100F, 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.

What's new in FortiOS 6.4.12

This release is a patch release only. No new managed FortiSwitch features have been added in FortiOS 6.4.12.

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
NOTE: 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	D-series, E-series, F-series
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 6.4.12 supports upgrading from FortiSwitchOS 3.5.0 and later.

To determine a compatible FortiOS version, check the [FortiLink Compatibility matrix](#).

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.

Product integration and support

FortiSwitchOS 6.4.12 support

The following table lists FortiSwitchOS 6.4.12 product integration and support information.

Web browser	• Mozilla Firefox version 52 • Google Chrome version 56 Other web browsers may function correctly, but are not supported by Fortinet.
FortiOS (FortiLink Support)	Refer to the FortiLink Compatibility table to find which FortiSwitchOS versions support which FortiOS versions.

Resolved issues

The following issues have been fixed in FortiOS 6.4.12. For inquiries about a particular bug, please contact [Customer Service & Support](#).

Bug ID	Description
845667	When FortiSwitch ports are leased to a tenant VDOM, the <code>set allowed-vlans-all enable</code> command under the owner VDOM FortiSwitch port pushes VLANs from both the owner and tenant VDOMs to the FortiSwitch unit.
859690	Upgrading from 6.4.4 to 6.4.9 causes frequent flcfg daemon crashes.

Known issues

The following known issues have been identified with FortiOS 6.4.12. 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	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. 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.
586801	NetBIOS stops working when proxy ARP is configured and the access VLAN is enabled because FortiGate units do not support NetBIOS proxy.
602397	Managed FortiSwitch and FortiSwitch <i>Ports</i> pages are slow to load when there are many managed FortiSwitch units. Workaround: Upgrade to both FortiOS 7.0.1 GA and FortiSwitchOS 7.0.1 GA.
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> .
798724	After restarting a FortiGate device, exported managed FortiSwitch ports are missing in the VDOM.



FORTINET®



Copyright© 2023 Fortinet, Inc. All rights reserved. Fortinet®, FortiGate®, FortiCare® and FortiGuard®, and certain other marks are registered trademarks of Fortinet, Inc., in the U.S. and other jurisdictions, and other Fortinet names herein may also be registered and/or common law trademarks of Fortinet. All other product or company names may be trademarks of their respective owners. Performance and other metrics contained herein were attained in internal lab tests under ideal conditions, and actual performance and other results may vary. Network variables, different network environments and other conditions may affect performance results. Nothing herein represents any binding commitment by Fortinet, and Fortinet disclaims all warranties, whether express or implied, except to the extent Fortinet enters a binding written contract, signed by Fortinet's General Counsel, with a purchaser that expressly warrants that the identified product will perform according to certain expressly-identified performance metrics and, in such event, only the specific performance metrics expressly identified in such binding written contract shall be binding on Fortinet. For absolute clarity, any such warranty will be limited to performance in the same ideal conditions as in Fortinet's internal lab tests. In no event does Fortinet make any commitment related to future deliverables, features, or development, and circumstances may change such that any forward-looking statements herein are not accurate. Fortinet disclaims in full any covenants, representations, and guarantees pursuant hereto, whether express or implied. Fortinet reserves the right to change, modify, transfer, or otherwise revise this publication without notice, and the most current version of the publication shall be applicable.