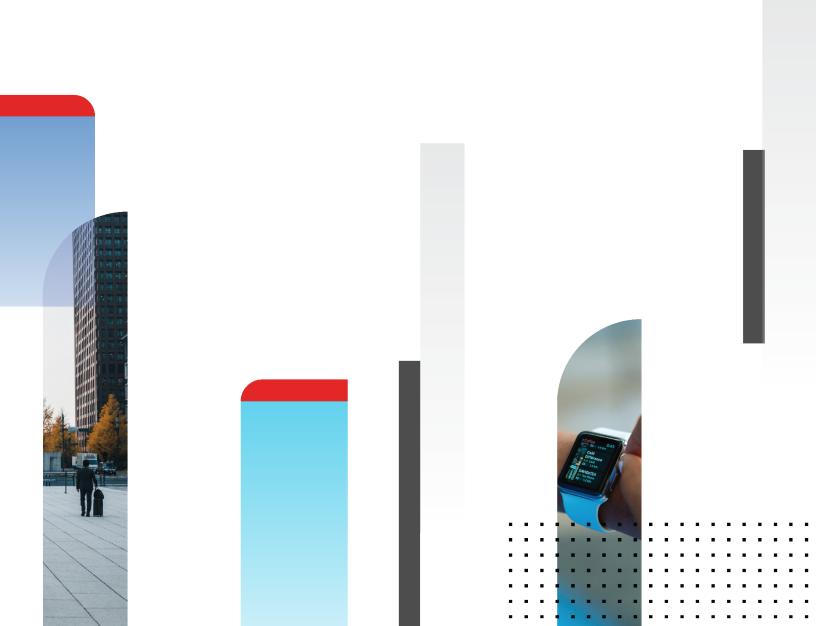


Release Notes

FortiSwitchOS 7.0.1



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Change log

Date	Change Description
June 16, 2021	Initial release for FortiSwitchOS 7.0.1
February 24, 2022	Added bug 784585.
December 11, 2023	Removed bug 673433.

Introduction

This document provides the following information for FortiSwitchOS 7.0.1 build 0038.

- Supported models on page 5
- Special notices on page 7
- Upgrade information on page 8
- Product integration and support on page 9
- Resolved issues on page 10
- Known issues on page 12

See the Fortinet Document Library for FortiSwitchOS documentation.

Supported models

FortiSwitchOS 7.0.1 supports the following models:

FortiSwitch 1xx	FS-108E, FS-108E-POE, FS-108E-FPOE, FS-108F, FS-108F-POE, FS-108F-FPOE, FS-124E, FS-124E-POE, FS-124E-FPOE, FS-124F, FS-124F-POE, FS-148E, FS-148E-POE, FS-148F, FS-148F-POE, FS-148F-FPOE
FortiSwitch 2xx	FS-224D-FPOE, FS-224E, FS-224E-POE, FS-248D, FS-248E-POE, FS-248E-FPOE
FortiSwitch 4xx	FS-424D, FS-424D-FPOE, FS-424D-POE, FS-424E, FS-424E-POE, FS-424E-FPOE, FS-424E-Fiber, FS-M426E-FPOE, FS-448D, FS-448D-FPOE, FS-448D-POE, FS-448E, FS-448E-POE, FS-448E-FPOE
FortiSwitch 5xx	FS-524D-FPOE, FS-524D, FS-548D, FS-548D-FPOE
FortiSwitch 1xxx	FS-1024D, FS-1048D, FS-1048E
FortiSwitch 3xxx	FS-3032D, FS-3032E
FortiSwitch Rugged	FSR-112D-POE, FSR-124D

What's new in FortiSwitchOS 7.0.1

Release 7.0.1 provides the following new features:

- You can now configure VLAN stacking (QnQ) and VLAN mapping in the GUI.
- The Log Entries page (Log > Entries) has been redesigned to make it easier to read the log messages.
- You can now enable explicit congestion notification (ECN) marking when you create or edit a QoS egress policy in the GUI.
- You can now use the set fec-state detect-by-module command to allow split ports of the FS-1048E and FS-3032E models to automatically detect whether forward error correction (FEC) is supported by the module.
- Policy-based routing (PBR) allows users to define the next hop for packets based on the packet's source or
 destination IP addresses. You can specify the virtual routing and forwarding (VRF) instance that the next hop
 belongs to or the default VRF instance is used. You can assign the next hop to a next-hop group to use equal-cost
 multi-path (ECMP) routing.
- The new *Route Diagnostic* page (*Router > Diagnostic*) displays a summary of existing routes for a specific IP address or host name and lists the network hops to the specified IP address or host name.
- The new ARP Table page (Router > ARP Table) lists the IP address, number of minutes that the ARP entry has been in the ARP table, MAC address, and interface for each ARP table entry.
- When you add a RADIUS server in the GUI, you can now test if the user credentials for the RADIUS server are valid.
- Equal Cost Multi-Path (ECMP) is now supported by the FS-5xxD models with IPv6.
- You can now specify which switch goes dormant when the split-brain state occurs by setting the priority of each switch. The priority can be 0-100 and is 50 by default. The switch peer with the lowest priority value goes dormant when the split-brain state occurs. If both switch peers have the same priority, the switch with the lowest numerical MAC address goes dormant when the split-brain state occurs.
- You can now force the switch going dormant when the split-brain state occurs to shut down all ports before going dormant. The state of the ICL trunk ports is not changed. By default, this option is disabled.
- Layer-3 IPv4 dynamic routing with MCLAG peer groups is now supported.
- You can now display the VRF IPv6 entries of the routing table.

Refer to the FortiSwitch feature matrix for details about the features supported by each FortiSwitch model.

Special notices

Downgrading FortiSwitchOS 7.0.0 and later to versions earlier than 6.2.6 or 6.4.4 is not supported

Downgrading FortiSwitchOS 7.0.0 and later to FortiSwitchOS 6.2.6 and later 6.2 versions is supported. Downgrading FortiSwitchOS 7.0.0 and later to FortiSwitchOS 6.4.4 and later 6.4 versions is supported. Downgrading FortiSwitchOS 7.0.0 to versions earlier than FortiSwitchOS 6.2.6 or 6.4.4 is not supported.

Downgrading FortiSwitchOS 7.0.0 and later requires converting the admin password first

Because FortiSwitchOS 7.0.0 changed from SHA1 to SHA256 encryption for admin passwords, you need to convert the format of the admin password before downgrading from FortiSwitchOS 7.0.0 and later to an earlier FortiSwitchOS version.



If you do not convert the admin password before downgrading from FortiSwitchOS 7.0.0 and later, the admin password will not work after the switch reboots with the earlier FortiSwitchOS version.

The encrypted admin password in FortiSwitchOS 7.0.0 and higher starts with "SH2", and the encrypted admin password for earlier FortiSwitchOS versions starts with "AK1".

To convert the format of the admin password in FortiSwitchOS 7.0.0 and later before downgrading to an earlier FortiSwitchOS version:

1. Enter the following CLI command to convert the admin password from SHA256 to SHA1 encryption:

execute system admin account-convert <admin name>

2. Downgrade your firmware.

Connecting multiple FSR-112D-POE switches

The FSR-112D-POE switch does not support interconnectivity to other FSR-112D-POE switches using the PoE ports. Fortinet recommends using the SFP ports to interconnect switches.

Upgrade information

FortiSwitchOS 7.0.1 supports upgrading from FortiSwitchOS 3.5.0 and later.

For FortiSwitch units managed by FortiGate units, refer to the *FortiSwitch Devices Managed by FortiOS Release Notes* for upgrade information. See https://docs.fortinet.com/document/fortiswitch/7.0.0/managed-switch-release-notes.

Product integration and support

FortiSwitchOS 7.0.1 support

The following table lists FortiSwitchOS 7.0.1 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)	FortiLink is supported on all FortiSwitch models when running FortiOS 5.4.0 and later and FortiSwitchOS 3.2.1 and later.

Resolved issues

The following issues have been fixed in FortiSwitchOS 7.0.1. For inquiries about a particular bug, please contact Customer Service & Support.

Bug ID	Description
566433	Setting the value for ca-cert causes LDAP authentication to fail sometimes.
589912	The version of OpenSSL needs to be upgraded to 1.1.1k.
598871	Some 4xxE switches report "failed BASE ID Check Sequence" and "failed reading register" errors.
686325	When many LLDP neighbors are connected to the FortiSwitch units, the daemon receiving the LLDP neighbor messages is overwhelmed and stops synchronizing the configuration.
701196	The root port for the spanning tree inter-chassis link (ICL) flaps in an MCLAG topology.
704377	After adding and then removing <code>ip6-allowaccess ping</code> from a VRF-enabled switch virtual interface (SVI), ping is still allowed through.
706717	The first time that the managed FS-108E-FPOE model attempts RADIUS authentication to the Cisco Identity Services Engine (ISE) always fails.
709837	The number of power supply units on the FS-448D model is not displayed correctly with the diagnose sys psu status command.
710229	When FortiSwitch 802.1x port-based authentication is configured on a switch port with <code>learning-limit</code> set to 1, traffic is not received on the FortiGate device.
711074	After a split-brain state is detected, some of the managed FortiSwitch units in the MCLAG topology are disconnected.
711950	After upgrading from 6.0.9 to 6.4.5, the FortiGate configuration is not being synchronized with the managed FortiSwitch units.
712323	After VRRP is enabled, the switch does not respond to ARP requests from the directly connected interface.
715261	Configuring allow-mac-move for 802.1x authentication does not work when using dynamic VLAN.
719044	After enabling a MACsec profile for a port, client traffic stopped flowing from that port.
719628	In an "MCLAG with access rings" topology, the managed switch crashes with an "Unable to handle kernel NULL pointer dereference at virtual address 0000000c" error.

Common vulnerabilities and exposures

FortiSwitchOS 7.0.1 is no longer vulnerable to the following CVEs:

• CVE-2021-3449

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

Known issues

The following known issues have been identified with FortiSwitchOS 7.0.1. For inquiries about a particular bug or to report a bug, please contact Fortinet Customer Service & Support.

Bug ID	Description
382518, 417024, 417073, 417099, 43844	DHCP snooping and dynamic ARP inspection (DAI) do not work with private VLANs 1 (PVLANs).
414972	IGMP snooping might not work correctly when used with 802.1x Dynamic VLAN functionality.
480605	When DHCP snooping is enabled on the FSR-112D-POE, the switched virtual interface (SVI) cannot get the IP address from the DHCP server.
	Workarounds: —Use a static IP address in the SVI when DHCP snooping is enabled on that VLAN. —Temporarily disable dhcp-snooping on vlan, issue the execute interface dhcpclient-renew <interface> command to renew the IP address. After the SVI gets the IP address from the DHCP server, you can enable DHCP snooping.</interface>
	The time-domain reflectometer (TDR) function (cable diagnostics feature) reports unexpected values.
510943	Workaround: When using the cable diagnostics feature on a port (with the diagnose switch physical-ports cable-diag <physical name="" port=""> CLI command), ensure that the physical link on its neighbor port is down. You can disable the neighbor ports or physically remove the cables.</physical>
542031	For the 5xx switches, the diagnose switch physical-ports led-flash command flashes only the SFP port LEDs, instead of all the port LEDs.
548783	Some models support setting the mirror destination to "internal." This is intended only for debugging purposes and might prevent critical protocols from operating on ports being used as mirror sources.
572052	Backup files from FortiSwitchOS 3.x that have 16-character-long passwords fail when restored on FortiSwitchOS 6.x. In FortiSwitchOS 6.x, file backups fail with passwords longer than 15 characters.
	Workaround: Use passwords with a maximum of 15 characters for FortiSwitchOS 3.x and 6.x.
585550	When packet sampling is enabled on an interface, packets that should be dropped by uRPF will be forwarded.

Bug ID	Description
606044	The value for cable length is wrong when running cable diagnostics on the FS-108E, FS-124E, FS-108E-POE, FS-108E-FPOE, FS-124E-POE, FS-124E-FPOE, FS-148E, and FS-148E-POE models.
609375	The FortiSwitchOS supports four priority levels (critical, high, medium, and low); however, The SNMP Power Ethernet MIB only supports three levels. To support the MIB, a power priority of medium is returned as low for the PoE MIB.
610149	The results are inaccurate for open and short cables when running cable diagnostics on the FS-108E, FS-124E, FS-108E-POE, FS-108E-FPOE, FS-124E-POE, FS-148E, and FS-148E-POE models.
617755	The internal interface cannot obtain IPv6 addresses with dhcpv6-snooping enabled on the native VLAN.
701560	The DHCPv6 client cannot get the IP address when VLAN assignment is applied on the FSR-112D-POE model.
784585	When a dynamic LACP trunk has formed between switches in an MRP ring, the MRP ring cannot be closed. Deleting the dynamic LACP trunk does not fix this issue. MRP supports only physical ports and static trunks; MRP does not support dynamic LACP trunks. Workaround: Disable MRP and then re-enable MRP.



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