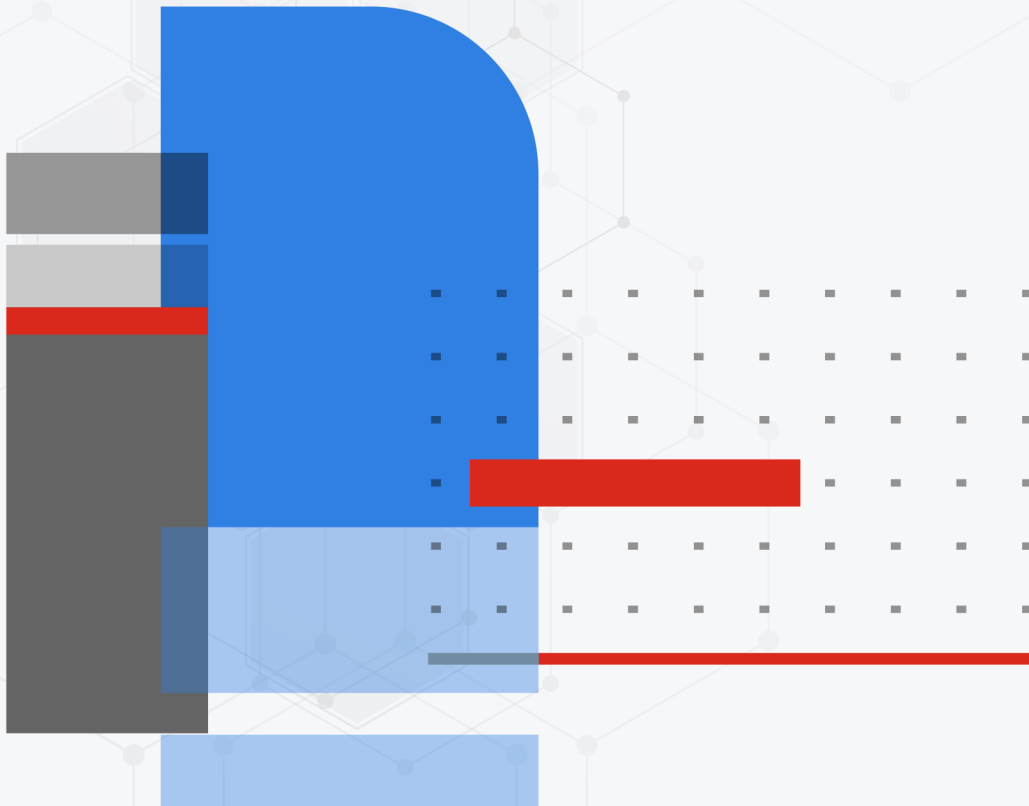




# FortiLink Release Notes (FortiOS 7.6.0)

FortiSwitchOS 7.6.0



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September 26, 2024

FortiSwitchOS 7.6.0 FortiLink Release Notes (FortiOS 7.6.0)

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## Change log

Date	Change Description
July 25, 2024	Initial document release for FortiOS 7.6.0
August 2, 2024	Updated the table that lists the maximum number of supported FortiSwitch units.
September 26, 2024	Added a note in <a href="#">Upgrade information on page 8</a> .

## What's new in FortiOS 7.6.0

The following list contains new managed FortiSwitch features added in FortiOS 7.6.0:

- You can now use the CLI to change the priority of MAC authentication bypass (MAB) authentication and Extensible Authentication Protocol (EAP) 802.1X authentication to fit your specific network security requirements.
  - Before FortiOS 7.6.0, the managed switch tried EAP 802.1X authentication and MAB authentication in the order that they were received with EAP 802.1X authentication having absolute priority. If authentication failed, users were assigned to the `auth-fail-vlanid` VLAN if it had been configured. There was no time delay. Starting in FortiOS 7.6.0, use the `set auth-priority legacy` command to keep this priority. After an upgrade, `auth-priority` is set to `legacy` by default.
  - Starting in FortiOS 7.6.0, if you want the managed switch to try EAP 802.1X authentication first and then MAB authentication if EAP 802.1X fails, use the `set auth-priority dot1x-mab` command. If MAB authentication also fails, users are assigned to the `auth-fail-vlanid` VLAN if it is configured.
  - Starting in FortiOS 7.6.0, if you want the managed switch to try MAB authentication first and then EAP 802.1X authentication if MAB authentication fails, use the `set auth-priority mab-dot1x` command. If EAP 802.1X authentication also fails, users are assigned to the `auth-fail-vlanid` VLAN if it is configured.
  - Starting in FortiOS 7.6.0 with FortiSwitchOS 7.2.3, MAB-only authentication is supported. In this mode, the managed FortiSwitch unit performs MAB authentication without performing EAP authentication. EAP packets are not sent. To enable MAB-only authentication, set the `auth-order` command to `mab`.
- You can now configure an SNMP trap so that you receive a message when a layer-2 MAC address has been added to, moved from or to, or deleted from a managed FortiSwitch port. This SNMP trap allows network administrators to monitor MAC address changes in real time, which strengthens overall network security.
- The FortiOS GUI has been updated to make it easier to upgrade all FortiSwitch units at the same time.

# Introduction

This document provides the following information for FortiSwitch 7.6.0 devices managed by FortiOS 7.6.0 build 3401:

- [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 11](#)

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

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



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, FortiGate-VM01	8
FGR-60F, FG-60F, FGR-60F-3G4G, FG-61F, FG-70F, FG-71F, FG-80F, FG-80FB, FG-80FP, FG-81F, FG-81FP, FortiGate-VM02	24
FortiGate 100F, 101F	32
FortiGate 200E, 201E, 200F, 201F, 800D, 900D, FortiGate-VM04	64
FortiGate 300E to 500E, 400F, 401F	72
FortiGate 600E to 900E, 600F, 601F, 900G, 901G	96
FortiGate 1000D	128
FortiGate 1000F, 1001F, 1100E to 26xxF	196
FortiGate-3xxx and up and FortiGate-VM08 and up	300



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

## Special notices

### Support of FortiLink features



Refer to the [FortiSwitchOS feature matrix](#) for details about the FortiLink features supported by each FortiSwitchOS model.

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## Upgrade information



Check the FortiSwitchOS Release Notes before upgrading the FortiSwitch firmware from the FortiGate Switch Controller.

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FortiSwitchOS 7.6.0 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 7.6.0 support

The following table lists FortiSwitchOS 7.6.0 product integration and support information.

<b>Web browser</b>	<ul style="list-style-type: none"><li>• Microsoft Edge 112</li><li>• Mozilla Firefox version 113</li><li>• Google Chrome version 113</li></ul> Other web browsers might function correctly, but are not supported by Fortinet.
<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 FortiOS 7.6.0. For inquiries about a particular bug, please contact [Customer Service & Support](#).

Bug ID	Description
688724	Applying a nondefault LLDP profile to a switch port does not work.
899414	The <i>WiFi &amp; Switch Controller &gt; FortiSwitch Clients</i> page shows the incorrect status of the LACP interface.
925554	The <i>Network &gt; Interfaces</i> page shows the incorrect status for the VLAN interfaces of hardware and software switches.
944975	The new value for the <code>set vlan</code> command is not shown in the output of the <code>show switch-controller lldp-profile</code> or the <code>show full switch-controller lldp-profile voip</code> command.
960240	After any setup changes, the inter-switch links are showing incorrectly as dotted on the <i>Topology</i> view of the <i>WiFi &amp; Switch Controller &gt; Managed FortiSwitches</i> page.
965482, 968134	The FortiGate 200F models have a lower performance when managing FS-6xxF switches in head-of-the-line (HOL) mode.
984404	After upgrading the FortiGate to FortiOS 7.4.2, the managed FortiSwitch unit is shown as “not registered” in the GUI.
990409	After upgrading FortiOS, the kernel operation is interrupted and restarts due to a switch command issue.
991855	The access-mode and storm-control policy commands are not visible in FortiGate clusters, and the FortiGate clusters do not send updated configurations to the FortiSwitch unit.
995518	When new firmware is available, the FortiGuard option is not available to upgrade on the <i>WiFi &amp; Switch Controller &gt; Managed FortiSwitches &gt; Upgrade</i> page.
1000663	The configurations of managed-switch ports are being removed after the switch is restarted. This issue only affects user-created trunks.
1003503	The federated auto-firmware upgrade with FortiGate devices, FortiSwitch units, and FortiAP units needs to be optimized.
1008049	The I2C bus becomes stuck during an upgrade due to an error in the switch-config-init command.
1023888	The FortiGate GUI cannot be used to change the native and allowed VLANs on the <i>WiFi &amp; Switch Controller &gt; FortiSwitch Ports</i> page.
1032105	When a port is split on a managed switch, the FortiGate HA mode becomes unsynchronized.
1033874	The <code>cu_acd</code> application crashes with a signal 6.

## Known issues

The following known issues have been identified with FortiOS 7.6.0. 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.
520954	When a "FortiLink mode over a layer-3 network" topology has been configured, the FortiGate GUI does not always display the complete network.
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.
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> .
789914	<ul style="list-style-type: none"> <li>When LAN segments are enabled on the 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-148E, FS-148E-POE, FS-148F, FS-148F-POE, FS-148F-FPOE, FS-124F, FS-124F-POE, and FS-124F-FPOE models, the internal VLAN (<code>set lan-internal-vlan</code>) is assigned automatically by default. If the same VLAN is configured on the FortiGate device, the configuration fails when it is pushed to the FortiSwitch unit without any warning message. <b>WORKAROUND:</b> Use a custom command.</li> <li>All sub-VLANs must belong to the same MSTP instance if the FortiLink configuration includes the 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-148E, FS-148E-POE, FS-148F, FS-148F-POE, FS-148F-FPOE, FS-124F, FS-124F-POE, and FS-124F-FPOE models.</li> </ul>
813216	After CAPWAP offload is enabled or disabled, FortiLink goes down.
814674	When upgrading a FortiAP or FortiSwitch unit that is connected to a downstream FortiGate device, a "Failed to retrieve upgrade progress" message appears.

Bug ID	Description
910962	<p>After setting values for <code>src-mac</code>, <code>dst-mac</code>, and <code>vlan</code> for the ACL classifier, you cannot use the <code>unset</code> command to remove these settings.</p> <p><b>WORKAROUND:</b></p> <ol style="list-style-type: none"><li>1. Remove <code>set acl-group &lt;ACL_group_name&gt;</code> from under the <code>config switch-controller managed-switch</code> command.</li><li>2. Delete the ACL group.</li><li>3. Delete the ACL.</li><li>4. Reconfigure the ACL.</li></ol>
940248	<p>When both network device detection (<code>config switch network-monitor settings</code>) and the switch controller routing offload are enabled, the FS-1048E switch generates duplicate packets.</p>
961142	<p>An interface in FortiLink flaps when using an MCLAG with DAC on the OPSFPP-T-05-PEB transceiver.</p>
1042390	<p>The NAC policy cannot be saved when you are using a wildcard MAC address.</p>
1043815	<p>Upgrading the firmware for a large number (more than 100) of FortiSwitch units at the same time might cause performance issues with the GUI and some devices might not upgrade.</p> <p><b>Workaround:</b> Upgrade the FortiSwitch units in smaller batches.</p>
1054445	<p>The GUI does not show changes in the dynamic port policy.</p>



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