Release Notes

FortiSwitchOS 7.4.9

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FortiSwitchOS 7.4.9 Release Notes
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Change log

Date	Change Description
January 23, 2026	Initial release for FortiSwitchOS 7.4.9
February 6, 2026	Corrected the description of bug 1231938.
February 10, 2026	Added bug 1253048.

What's new in FortiSwitchOS 7.4.9

Release 7.4.9 provides the following new features:

- The `set speed auto-module` command has been changed to `set speed detect-by-module` (under `config switch physical-port`).
- On the *Switch* > *Interfaces* page, the  icon now indicates that `auto-network` is enabled on the switch. When the icon is blue, it indicates an active inter-switch link (ISL) trunk. Previously, the icon indicated that FortiLink discovery was enabled.
- You can now configure the netmask for the virtual router IP address when configuring the Virtual Router Redundancy Protocol (VRRP) in the FortiSwitchOS GUI.

Introduction

This document provides the following information for FortiSwitchOS 7.4.9 build 0946:

See the Fortinet Document Library for FortiSwitchOS documentation.

Supported models

FortiSwitchOS 7.4.9 supports the following models:

FortiSwitch 1xx	FS-108E, FS-108E-POE, FS-108E-FPOE, FS-108F, FS-108F-POE, FS-108F-FPOE, FS-110G-FPOE, FS-124E, FS-124E-POE, FS-124E-FPOE, FS-124F, FS-124F-POE, FS-124F-FPOE, FS-124G, FS-124G-FPOE, 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-424E, FS-424E-POE, FS-424E-FPOE, FS-424E-Fiber, FS-M426E-FPOE, FS-448E, FS-448E-POE, FS-448E-FPOE
FortiSwitch 5xx	FS-524D, FS-524D-FPOE, FS-548D, FS-548D-FPOE
FortiSwitch 6xx	FS-624F, FS-624F-FPOE, FS-648F, FS-648F-FPOE
FortiSwitch 1xxx	FS-1024D, FS-1024E, FS-1048E, FS-T1024E, FS-T1024F-FPOE
FortiSwitch 2xxx	FS-2048F
FortiSwitch 3xxx	FS-3032E
FortiSwitch Rugged	FSR-112D-POE, FSR-124D, FSR-216F-POE, FSR-424F-POE

Special notices

SSH host keys must be regnerated and user certificates must be imported again when downgrading from FortiSwitchOS 7.4.6 and later

When FortiSwitchOS 7.4.6 or later is downgraded, users need to regenerate the SSH host keys and import the user certificates again.

Upgrading MCLAG peer group switches from FortiSwitchOS 7.4.2 and earlier to FortiSwitchOS 7.4.3 and later

FortiSwitchOS 7.4.3 has changes in the MCLAG ICL communication that are incompatible with previous versions; therefore, the upgrade of the MCLAG peer group will have a longer impact than usual. Below are the recommended procedures.

From the FortiGate Switch Controller:

1. Disable network monitoring on the FortiGate device:
```
config switch-controller network-monitor-settings
   set network-monitoring disable
end
```
2. Stage the FortiSwitch firmware image on the FortiSwitch units using the "`execute switch-controller switch-software stage`" command on the FortiGate device.
3. Restart the MCLAG peer group switches at the same time.

From the FortiSwitch CLI:

The following recommended procedure will minimize downtime when upgrading MCLAG (the expected impact is within 20 seconds) from FortiSwitchOS 7.4.2 and earlier to FortiSwitchOS 7.4.3 and later.

1. If MCLAG split-brain protection is enabled, disable it in both switches in the MCLAG peer group.
2. In the FortiSwitchOS CLI, use the `diagnose switch mclag icl` command to find out which switch has the lower MAC address. .

```
3032E-1 # diagnose switch mclag icl
_FlInK1_ICL0_
       icl-ports            1-2
       egress-block-ports   3-5,31.1,32.1,17.3,17.4,31.2,32.2,32.3,32.4
       interface-mac        84:39:8f:13:96:4d   <-- local switch MAC address
       local-serial-number  FS3E32T422000275
       peer-mac             84:39:8f:13:99:59   <-- peer switch MAC address
```

```
peer-serial-number   FS3E32T422000281
Local uptime         0 days 23h:55m: 0s
Peer uptime          0 days 23h:55m: 0s
MCLAG-STP-mac        84:39:8f:13:96:4c
keepalive interval   1
keepalive timeout    60
dormant candidate    Peer
split-brain          Disabled
```

3. Stage the image in both switches using the `execute stage image` CLI command)
4. Restart the switch with the lower MAC address.
   In the preceding example, the local switch has the lower MAC address, so the local switch should be restarted first
5. Wait for the switch to restart and check that all links come up (the LACP trunks could be in a down state).
6. Restart the other switch.
7. After MCLAG comes up, enable split-brain protection if it was enabled before the upgrade.

Reduce configuration revisions before downgrading from 7.4.2 and later versions

For the FS-4xx, FS-5xx, FS-6xx, FS-1024E, FS-1048E, FS-3032E, FS-T1024E, and FS-2048F models only: If you are downgrading from FortiSwitchOS 7.4.2 and later, you cannot have more than 20 saved configuration revisions.

To check how many saved configuration revisions you have:

```
execute revision list config
```

To delete a specific configuration revision:

```
execute revision delete config <revision_ID>
```

Zero-touch management

When a new FortiSwitch unit is started, by default, it will connect to the available manager, which can be a FortiGate device, FortiLAN Cloud, or FortiSwitch Manager. All ports are enabled for auto discovery. The “internal” interface is the DHCP client in all FortiSwitch models. If you do not want your FortiSwitch unit to be managed, you must disable the features that you do not want active.

By default, auto-network is enabled in FortiSwitchOS 7.2.0 and later

After an `execute factoryreset` command is executed on a FortiSwitch unit in standalone mode, the auto-network configuration is enabled by default. If you are not using auto-network, you must manually disable it:

```
config switch auto-network
   set status disable
```

```
end
```

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 your FortiSwitchOS version requires converting the admin password format first

Before downgrading to a FortiSwitchOS version earlier than 7.0.0, you need to ensure that the administrator password is in SHA1 format. Use the `execute system admin account-convert-sha1` command to convert the administrator password to SHA1 encryption.

Before downgrading to FortiSwitchOS 7.0.0 or later, you need to ensure that the administrator password is in SHA1 or SHA256 format.

- Use the `execute system admin account-convert-sha1` command to convert the administrator password to SHA1 encryption.
- Use the `execute system admin account-convert-sha256` command to convert the password for a system administrator account to SHA256 encryption.

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

To convert the format of the admin password to SHA1 format:

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

   ```
   execute system admin account-convert-sha1 <admin_name>
   ```

2. Downgrade your firmware.

To convert the format of the admin password to SHA256 format:

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

   ```
   execute system admin account-convert-sha256 <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 7.4.9 supports upgrading from FortiSwitchOS 3.5.0 and later.

For the FS-424E, FS-424E-POE, FS-424E-FPOE, FS-424E-Fiber, and FS-M426-FPOE models, there is a two-step upgrade process if you are upgrading from FortiSwitchOS 6.0.x or 6.2.x to 7.2.x:

1. Upgrade from FortiSwitchOS 6.0.x or 6.2.x to FortiSwitchOS 6.4.12 or later.
2. Upgrade from FortiSwitchOS 6.4.12 or later to 7.2.x.

If you do not follow the two-step upgrade process, the FortiSwitch unit will not start after the upgrade, and you will need to use the serial console to conclude the upgrade (BIOS and OS).

For FortiSwitch units managed by FortiGate units, refer to the *FortiLink Release Notes* for upgrade information.

Product integration and support

FortiSwitchOS 7.4.9 support

The following table lists FortiSwitchOS 7.4.9 product integration and support information.

Web browser	• Microsoft Edge 135 • Mozilla Firefox version 138 • Google Chrome version 136 Other browser versions have not been tested but might fully function. Other web browsers might 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 FortiSwitchOS 7.4.9. For inquiries about a particular bug, please contact Customer Service & Support.

Bug ID	Description
1178539	When a 25G port of the FS-2048F model is connected to Mellanox ESXi, the port keeps flapping.
1179853	Servers connected to an FS-648F-FPOE randomly lost connectivity.
1180087	When IoT scanning is enabled, the switch periodically needs to be restarted.
1192880	When managing an FS-1024E, FortiLink went down suddenly, and the user could not communicate with the switch, and the switch console did not respond.
1195601	MAC addresses in an MCLAG are not being synchronized, causing network interruptions.
1201314	When `lan-segment` is enabled in a FortiLink topology, the `vlan-range` cannot be added in an STP instance.
1204156	The `diagnose switch 802 status` command does not work on the FS-148E when using SSH.
1204520	Trying to upgrade FS-1048E to FortiSwitchOS 7.4.8 fails.
1206457	After upgrading to FortiSwitchOS 7.4.8 on the FS-1xxF Series, the ports summary does not display.
1208778	Some switch platforms send out packets with the cfi bit set to 1, which might cause the packet to be dropped by the remote side.
1208893, 1219236	A static trunk, _FLinkDhcpDisc_, with port1 as a member, prevents the FS-1xxG model from being managed properly by the FortiGate device.
1213254	The FSR-108F, FSR-112F-POE, and FSR-216F-POE models do not support the DHCP server.
1213843	There is an “Unable to retrieve ingress data, please try again later.” error when the user searches for an ingress ACL in the GUI.
1219674	The ABR router did not update the OSPF area 1 routes from the area 1 NSSA router.
1221312	The FS-124G-FPOE idle noise level is high after it is turned on.
1222914	**For the FS-148F, FS-148F-POE, FS-148F-FPOE, FS-124G, FS-124G-FPOE, and FS-110G models:** 224.0.0.x packets stop flooding when the first multicast port list group is created and this port list group is used to forward 224.0.0.x packets.
1227872, 1229597	Sometimes STP instances other than 0 might not get updated MCLAG STP MAC addresses.
1230130	For FS-248E-POE, FS-248E-FPOE, and FS-224E_POE only. The switches crash after upgrading to FortiSwitchOS 7.6.4, 7.6.1, or 7.4.7.

Bug ID	Description
1231938	In FortiLink mode, when the quarantine hosts feature is enabled, all the quarantine hosts flood to all FortiSwitch units, causing 802-1x authentication to fail. This issue affects all switch models.
1232960	The device stops responding when VLAN assignment MAC addresses are cleared.
1233466	Restarting the core MCLAG peer switch causes a loop in the network.
1241195	ARP packets are not being included in the ACL counters.

Known issues

The following known issues have been identified with FortiSwitchOS 7.4.9. For inquiries about a particular bug or to report a bug, please contact Fortinet Customer Service & Support.

Bug ID	Description
382518, 417024, 417073, 417099, 438441	DHCP snooping and dynamic ARP inspection (DAI) do not work with private VLANs (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 the VLAN and then use 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.
510943	The time-domain reflectometer (TDR) function (cable diagnostics feature) reports unexpected values. **Workaround:** When using the cable diagnostics feature on a port (with the `diagnose switch physical-ports cable-diag <physical port name>` CLI command), ensure that the physical link on its neighbor port is down. You can disable the neighbor ports or physically remove the cables.
542031	For the FS-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.
606044, 610149	The results are inaccurate 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.

Bug ID	Description
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.
659487	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-124F, FS-124F-POE, and FS-124F-FPOE, FS-148E, and FS-148E-POE models support ACL packet counters but not byte counters. The `get switch acl counters` commands always show the number of bytes as 0.
667079	For the FSR-112D-POE model: • If you have enabled IGMP snooping or MLD snooping, the FortiSwitch unit does not support IPv6 features and cannot pass IPv6 protocol packets transparently. • If you want to use IGMP snooping or MLD snooping with IPv6 features, you need to enable `set flood-unknown-multicast` under the `config switch global` command.
777647	• When MACsec is enabled on a tagged port, the `set exclude-protocol` command does not work on packets with VLAN tags (ARP, IPv4, or IPv6). • If you use the `set exclude-protocol` command with dot1q and packets with VLAN tags (ARP, IPv4, or IPv6), the packets are not MACsec encrypted and are transmitted as plain text. • Only 0x88a8 type packets apply to qinq.
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.
793145	VXLAN does not work with the following: • log-mac-event • LLDP-assigned VLANs • NAC • Block intra-VLAN traffic
829807	eBGP does not advertise routes to its peer by default unless the `set ebgp-requires-policy disable` command is explicitly configured or inbound/outbound policies are configured.
903001	Do not use `mgmt` as the name of a switch virtual interface (SVI). `mgmt` is reserved for the physical management switch port.
916405	FortiSwitchOS should not allow MACsec and 802.1X authentication to be configured on the same port.
940248	When both network device detection (`config switch network-monitor settings`) and the switch controller routing offload are enabled, the FS-1048E switch generates duplicate packets.
950895	In Release 7.4.1, VXLAN supports only one MSTP instance.

Bug ID	Description
978361	If restoring the FortiSwitch configuration from the GUI fails, the next firmware upgrade (using the CLI or GUI) or configuration restore will fail. **Workaround:** 1. Go to *System* > *Config* > *Revisions* and click *Restore*. 2. Choose the wrong configuration file and then click *Apply*. You will see a “Failed to restore configuration.” error message. 3. Choose the right configuration file and then click *Apply*. You will see a “Failed to restore configuration.” message. 4. Choose the right configuration file a second time and then click *Apply*. You will see a “Settings successfully restored. Please wait while the system restarts.” message.
942068, 1006513	After using a dynamic port policy to remove or add a port, the profile was not updated after the user logged out of the EAP session.
1181295	After you add or delete ACL rules, traffic does not hit the ACL rules in the order in which they were added. For example, if ACLrule1, ACLrule2, and ACLrule3 are configured and then ACLrule1 is deleted and ACLrule4 is added, traffic hits ACLrule4 before ACLrule2 and ACLrule3. **Workaround:** If you want to change the order of the ACL rules, delete the current ACL and then configure a new ACL with the ACL rules in the correct order.
1184230	The FS-2048F model does not support the `1000auto` speed.
1253048	In FortiSwitchOS 7.4.8, 7.4.9, 7.6.5, and 7.6.6, the `source-ip` value is ignored for TACACS authentication requests. **Workaround:** Use FortiSwitchOS 7.6.4 or 7.4.7.

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