FortiSwitch Devices Managed by FortiOS Release Notes

FortiSwitch 7.0.8

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FortiSwitch 7.0.8 FortiSwitch Devices Managed by FortiOS Release Notes
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Change log

Date	Change Description
October 13, 2022	Initial document release for FortiOS 7.0.8
October 28, 2022	Added bug 838880 as a resolved issue.

Introduction

This document provides the following information for FortiSwitchOS 7.0.5 devices managed by FortiOS 7.0.8 build 0418:

- Special notices on page 8
- Upgrade information on page 10
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See the Fortinet Document Library for FortiSwitch documentation.

Refer to the FortiLink Compatibility matrix to find which FortiSwitchOS versions support which FortiOS versions.

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, FortiGate-VM01	8
FortiGate 60F, 6xE, 80F, 8xE, 90E, 91E	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 26xxF	196
FortiGate-3*xxx* 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.

What’s new in FortiOS 7.0.8

The following list contains new managed FortiSwitch features added in FortiOS 7.0.8:

- The commands for flooding IGMP reports and flooding multicast traffic on a specified managed switch interface have changed from:
  ```
  config switch-controller managed-switch
     edit <FortiSwitch_serial_number>
     config ports
        edit <port_name>
           set igmps-flood-reports {disable | enable}
           set igmps-flood-traffic {disable | enable}
        next
     end
  ```
  to:
  ```
  config switch-controller managed-switch
     edit <FortiSwitch_serial_number>
     config ports
        edit <port_name>
           set igmp-snooping-flood-reports {disable | enable}
           set mcast-snooping-flood-traffic {disable | enable}
        next
     end
  ```
  For example:
  ```
  config switch-controller managed-switch
     edit S524DF4K15000024
     config ports
        edit port3
           set igmp-snooping-flood-reports enable
           set mcast-snooping-flood-traffic enable
        next
     end
  ```
- A new test has been added to the FortiSwitch recommendations in the *Security Fabric* > *Security Rating* page to help optimize your network. The test checks the FortiSwitchOS version on the managed switches. If the FortiSwitchOS version is 7.0.0 or higher, FortiOS recommends using the strict tunnel mode, which enforces the use of strong encryption. If the managed switches are running an older firmware version, FortiOS recommends upgrading to FortiSwitchOS 7.0.0 or higher.

  ### To set the tunnel mode to strict in FortiOS:

  ```
  config switch-controller system
     set tunnel-mode strict
  end
  ```
- You can now use the FortiOS CLI to specify how often the managed FortiSwitch unit will send IGMP version-2 queries when the IGMP-snooping querier is configured:
  ```
  config switch-controller igmp-snooping
     set query-interval <10-1200>
  end
  ```
  By default, queries are sent every 125 seconds. The value for `aging-time` must be greater than the value for `query-interval`.
- You can now add software switch interfaces for the incoming and outgoing interfaces when you create a new IPv4 or IPv6 multicast policy by going to *Policy & Objects* > *Multicast Policy* and clicking *Create New*. The members must

belong to an explicit intra-switch-policy switch interface.

- The FG-180xF and FG-260xF models can now manage 196 FortiSwitch units.

Special notices

Support of FortiLink features

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

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 and later 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”.

If you do not want to convert the format of the FortiSwitch admin password, you can use the FortiOS CLI to override the managed FortiSwitch admin password with the FortiGate admin password.

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 FortiSwitchOS CLI command to convert the admin password from SHA256 to SHA1 encryption:

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

2. Downgrade your firmware.

To override the managed FortiSwitch admin password with the FortiGate admin password:

```
config switch-controller switch profile
   edit <FortiSwitch_profile_name>
      set login-passwd-override enable
      set login-passwd <new_password>
   end
```

NAC policies not maintained or converted when upgrading to 7.0.0

Existing NAC policies are not maintained or automatically converted into dynamic port policies after upgrading to FortiOS 7.0.0. They have to be reconfigured.

Upgrade information

FortiSwitchOS 7.0.5 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 7.0.5 support

The following table lists FortiSwitchOS 7.0.5 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 matrix to find which FortiSwitchOS versions support which FortiOS versions.

Resolved issues

The following issues have been fixed in FortiOS 7.0.8. For inquiries about a particular bug, please contact Customer Service & Support.

Bug ID	Description
777145	The *Managed FortiSwitches* page incorrectly shows a warning about an unregistered FortiSwitch unit even though it is registered. This only impacts transferred or RMAed FortiSwitch units. This is only a display issue with no impact on the FortiSwitch unit's operation.
794026	The number of targets that can be configured in the `config user quarantine` command has been raised from 256 to 4,000.
803307	The Security Rating message of "Enable STP" was changed to "To avoid a switching loop, enable STP on the FortiSwitch ports once network topology is stable."
805154	The pre-configuration for FS-108F-POE shows the wrong number of PoE ports.
810550	When synchronizing the configuration between the FortiGate device and some managed FortiSwitch units, "errno = 6" appears in the error logs.
825377	After upgrading to FortiOS 7.0.6, there are multiple problems in the GUI for a FortiLink topology with VDOMs enabled.
836604	The command for the managed switch port speed for a 40-Gbps copper interface was missing. You can now select `set speed 40000cr4`.
838110	The `set speed 25000cr4` command was changed to `set speed 25000cr`, and the `set speed 25000sr4` command was changed to `set speed 25000sr`.
838880	When you use NAC policies with EMS tags and switch groups, the endpoint does not match any policy if the endpoint matches both EMS tags and the switch groups are different.

Known issues

The following known issues have been identified with FortiOS 7.0.8. For inquiries about a particular bug or to report a bug, please contact Fortinet Customer Service & Support.

Bug ID	Description
298348, 298994	Enabling the `hw-switch-ether-filter` 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	Starting in FortiOS 6.4.0, VLAN optimization is enabled by default (`set vlan-optimization enable` under `config switch-controller global`). 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 `set allowed-vlans-all enable` configured (under `config switch-controller vlan-policy`), the setting reverts to the default, which is disabled, when upgrading to FortiOS 6.4.0. If you want to maintain the allowed-vlans-all 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.
621785	`user.nac-policy[].switch-scope` might contain a data reference to `switch-controller.managed-switch`. When this reference is set by an admin, the admin needs to remove this reference before deleting the `managed-switch`.
777145	The *WiFi & Switch Controller > Managed FortiSwitches* page incorrectly shows a warning about an unregistered FortiSwitch unit, even though it is registered. This only impacts transferred or RMAed FortiSwitch units. This is only a display issue with no impact on the FortiSwitch unit's operation. **Workaround:** Confirm the FortiSwitch registration status in the FortiCare portal.
813216	FortiLink randomly goes down after the `capwap-offload` setting is changed.
818116	When the FortiSwitch port status is changed in FortiOS, the configuration is not applied on the managed FortiSwitch unit.

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