

FortiSwitch Release Notes

Version 6.4.2

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FortiSwitch Release Notes

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Change log

Date	Change Description
June 29, 2020	Initial release for FortiSwitchOS 6.4.2
July 22, 2020	Updated the “Supported features for FortiSwitchOS 6.4.2” section.
August 7, 2020	Updated the “Supported features for FortiSwitchOS 6.4.2” section.
August 17, 2020	Updated the “Upgrade information” section.
August 18, 2020	Updated the “Upgrade information” section.

Introduction

This document provides the following information for FortiSwitch 6.4.2 build: 0425.

- [Supported models on page 5](#)
- [Special notices on page 8](#)
- [Upgrade information on page 16](#)
- [Product integration and support on page 17](#)
- [Resolved issues on page 18](#)
- [Known issues on page 19](#)

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

Supported models

FortiSwitch 6.4.2 supports the following models:

FortiSwitch 1xx	FS-108E, FS-108E-POE, FS-108E-FPOE, FS-124E, FS-124E-POE, FS-124E-FPOE, FS-148E, FS-148E-POE
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 6.4.2

Release 6.4.2 provides the following new features:

- When the DHCP server cannot find an IP pool using the primary IP address, the DHCP server will now check for IP pools using the secondary IP addresses.
- You can now configure a DHCP server by going to *System > DHCP*.
- You can now view the details of the IPv4 and IPv6 DHCP-snooping server databases by going to *Switch > Monitor > DHCP Snooping > Servers*.

- You can now view the details of the IPv4 and IPv6 DHCP-snooping client databases by going to *Switch > Monitor > DHCP Snooping > Clients*.
- Information-request packets are now supported in DHCP snooping (with both IPv4 and IPv6 addresses).
- The `set dhcp-snoop-mode {tracking | blocking}` command was removed from under the `config system global` command.
- Energy-efficient Ethernet settings are now displayed on the LLDP Neighbors page.
- You can now specify in the GUI whether the energy-efficient Ethernet (EEE) status of a port is sent using LLDP-MED.
- BFD is now disabled by default on the Edit OSPF Interface page.
- Use the new `diagnose debug crashlog read` command to display the crash log on the console in a readable format.
- Use the new `diagnose ip router fwd l3-enable-ip-tracing6 <IPv6_address>` command to enable IPv6 host tracing.
- The 802.1x-authenticated user name is now reported in the FortiGate traffic log.
- You can now configure a VLAN for users to be assigned to when the authentication server is unavailable. This feature is available with 802.1x port-based authentication and 802.1x MAC-based authentication. It is compatible with MAC authentication bypass (MAB).

```

config switch interface
  edit <interface_name>
    config port-security
      set port-security-mode {802.1X | 802.1X-mac-based}
      set authserver-timeout-period <3-15 seconds>
      set authserver-timeout-vlan {enable | disable}
      set authserver-timeout-vlanid <1-4094>
    end
    set security-groups <security-group-name>
  next
end

```

- You can now configure a link monitor to test if the RADIUS server is available:

```

config user radius
  edit <RADIUS_user_name>
    set link-monitor {enable | disable}
    set link-monitor-interval <5-120 seconds>
  next
end

```

- The link monitor is now supported 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.
- You can now check static and dynamic entries in the IP source guard database by going to *Switch > Monitor > IP Source Guard*.
- A new column on the Physical Port Interfaces page shows which interfaces have IP source guard enabled.
- You can use the new Reset button to reset BPDU guard (*Switch > Monitor > BPDU Guard*).
- You can now configure flow export by going to *System > Flow Export*.
- Bidirectional forwarding detection (BFD) is now supported by OSPF routing for IPv6.

- There are additional authentication protocols and encryption protocols available for SNMP in the GUI and CLI:
 - HMAC-SHA-224 authentication protocol
 - HMAC-SHA-256 authentication protocol
 - HMAC-SHA-384 authentication protocol
 - HMAC-SHA-512 authentication protocol
 - CFB128-AES-192 symmetric encryption protocol
 - CFB128-AES-192-C symmetric encryption protocol (required for certain clients)
 - CFB128-AES-256 symmetric encryption protocol
 - CFB128-AES-256-C symmetric encryption protocol (required for certain clients)
- You can now specify the quality of service (QoS) priority for mirrored packets on the FortiSwitch unit doing the mirroring.
- A new Valid column on the Local Certificates page, Remote Certificates page, and Certificate Authorities page indicates whether the certificate has expired. The Valid column replaces the Status column.
- All users who have write permission in the Admin Users category can now upgrade FortiSwitch firmware images using the GUI and REST API.
- Users with read and write permissions can now use the execute and monitor REST API endpoints.
- A new REST API endpoint uses a Fortinet certificate to sign user-specified data (`/api/v2/execute/sign/data`).
- Two new REST API endpoints retrieve the details of the IPv6 DHCP-snooping client database and IPv6 DHCP-snooping server database:
 - `/api/v2/monitor/switch/dhcp-snooping-client6-db`
 - `/api/v2/monitor/switch/dhcp-snooping-server6-db`

Special notices

Supported features for FortiSwitchOS 6.4.2

The following table lists the FortiSwitch features in Release 6.4.2 that are supported on each series of FortiSwitch models. All features are available in Release 6.4.2, unless otherwise stated.

Feature	GUI supported	112D-POE	FSR-124D	1xxE	4xxE	200 Series 400 Series	500 Series	1024D 1048D 1048E	3032D 3032E
Management and Configuration									
CPLD software upgrade support for OS	—	—	—	—	—	—	—	1024D 1048D	—
Firmware image rotation (dual-firmware image support)	—	✓	✓	148E 148E-POE	✓	✓	✓	✓	✓
HTTP REST APIs for configuration and monitoring	—	✓	✓	✓	✓	✓	✓	✓	✓
Support for switch SNMP OID	✓	✓	✓	✓	✓	✓	✓	✓	✓
IP conflict detection and notification	✓	✓	✓	✓	✓	✓	✓	✓	✓
FortiSwitch Cloud configuration	✓	✓	✓	✓	✓	✓	✓	✓	✓
Auto topology	—	✓	✓	✓	✓	✓	✓	✓	✓
Security and Visibility									
802.1x port mode	✓	✓	✓	✓	✓	✓	✓	✓	✓
802.1x MAC-based security mode	✓	✓	✓	✓	✓	✓	✓	✓	✓

Feature	GUI supported	112D-POE	FSR-124D	1xxE	4xxE	200 Series 400 Series	500 Series	1024D 1048D 1048E	3032D 3032E
User-based (802.1x) VLAN assignment	✓	✓	✓	✓	✓	✓	✓	✓	✓
802.1x enhancements, including MAB	✓	✓	✓	✓	✓	✓	✓	✓	✓
MAB reauthentication disabled	—	✓	✓	✓	✓	✓	✓	✓	✓
open-auth mode	✓	✓	✓	✓	✓	✓	✓	✓	✓
Support of the RADIUS accounting server	Partial	✓	✓	✓	✓	✓	✓	✓	✓
Support of RADIUS CoA and disconnect messages	—	✓	✓	✓	✓	✓	✓	✓	✓
EAP Pass-Through	✓	✓	✓	✓	✓	✓	✓	✓	✓
Network device detection	—	—	✓	—	✓	✓	✓	✓	✓
IP-MAC binding	✓	—	—	—	—	—	✓	✓	✓
sFlow	✓	✓	✓	—	✓	✓	✓	✓	✓
Flow export	✓	—	✓	—	✓	✓	✓	✓	✓
ACL	—	—	✓	✓	✓	✓	✓	✓	✓
Multistage ACL	—	—	—	—	—	—	✓	✓	✓
Multiple ingress ACLs	—	—	✓	—	✓	✓	✓	✓	✓
Schedule for ACLs	—	—	✓	✓	✓	✓	✓	✓	✓
DHCP snooping	✓	✓	✓	✓	✓	✓	✓	✓	✓
DHCPv6 snooping	✓	—	—	—	✓	✓	✓	✓	✓

Feature	GUI supported	112D-POE	FSR-124D	1xxE	4xxE	200 Series 400 Series	500 Series	1024D 1048D 1048E	3032D 3032E
Allowed DHCP server list	✓	✓	✓	✓	✓	✓	✓	✓	✓
IP source guard	✓	—	✓	—	✓	✓	—	—	—
Dynamic ARP inspection	✓	—	✓	✓	✓	✓	✓	✓	✓
ARP timeout value	—	✓	✓	✓	✓	✓	✓	✓	✓
Access VLANs	—	✓	✓	✓	✓	✓	✓	✓	✓
RMON group 1	—	✓	✓	✓	✓	✓	✓	✓	✓
Reliable syslog (RFC 6587)	—	✓	✓	✓	✓	✓	✓	✓	✓
Packet capture	—	—	✓	—	✓	✓	✓	✓	✓
Layer 2									
Link aggregation group size (maximum number of ports) (See Note 2.)	✓	8	8	8	8	8	24/48	24/48	24/64
LAG min-max-bundle	—	✓	✓	✓	✓	✓	✓	✓	✓
IPv6 RA guard	—	—	—	—	✓	✓	✓	✓	✓
IGMP snooping	✓	✓	✓	✓	✓	✓	✓	✓	✓
IGMP proxy	✓	✓	✓	✓	✓	✓	✓	✓	✓
IGMP querier	—	✓	✓	✓	✓	✓	✓	✓	✓
LLDP transmit	—	✓	✓	✓	✓	✓	✓	✓	✓
LLDP-MED	—	✓	✓	✓	✓	✓	✓	✓	✓
LLDP-MED: ELIN support	✓	✓	✓	✓	✓	✓	✓	✓	✓

Feature	GUI supported	112D-POE	FSR-124D	1xxE	4xxE	200 Series 400 Series	500 Series	1024D 1048D 1048E	3032D 3032E
Per-port max for learned MACs	—	—	✓	✓	✓	✓	✓	—	—
MAC learning limit (See Note 4.)	—	—	✓	✓	✓	✓	✓	—	—
Learning limit violation log (See Note 4.)	—	—	✓	✓	✓	✓	✓	—	—
set mac-violation-timer	—	✓	✓	✓	✓	✓	✓	✓	✓
Sticky MAC	✓	✓	✓	✓	✓	✓	✓	✓	✓
Total MAC entries	—	✓	✓	✓	✓	✓	✓	✓	✓
MSTP instances	—	0-15	0-15	0-15	0-15	0-15	0-32	0-32	0-32
STP root guard	—	✓	✓	✓	✓	✓	✓	✓	✓
STP BPDU guard	✓	✓	✓	✓	✓	✓	✓	✓	✓
Rapid PVST interoperation	—	✓	✓	✓	✓	✓	✓	✓	✓
'forced-untagged' or 'force-tagged' setting on switch interfaces	—	✓	✓	✓	✓	✓	✓	✓	✓
Private VLANs	✓	—	✓	—	✓	✓	✓	✓	✓
Multi-stage load balancing	—	—	—	—	—	—	—	✓	✓
Priority-based flow control	—	—	—	—	—	—	✓	✓	✓
Ingress pause metering	—	—	—	—	✓	✓	✓	✓	3032D
Storm control	✓	✓	✓	✓	✓	✓	✓	✓	✓
Per-port storm control	✓	✓	✓	✓	✓	✓	✓	✓	✓

Feature	GUI supported	112D-POE	FSR-124D	1xxE	4xxE	200 Series 400 Series	500 Series	1024D 1048D 1048E	3032D 3032E
MAC/IP/protocol-based VLAN assignment	✓	✓	✓	✓	✓	✓	✓	✓	✓
Virtual wire	✓	—	✓	—	✓	✓	✓	✓	✓
Loop guard	✓	✓	✓	✓	✓	✓	✓	✓	✓
Percentage rate control	✓	—	✓	—	✓	✓	✓	✓	✓
VLAN stacking (QinQ)	—	—	✓	—	✓	✓	✓	✓	✓
VLAN mapping	—	—	✓	—	✓	✓	✓	✓	✓
SPAN	✓	✓	✓	✓	✓	✓	✓	✓	✓
RSPAN and ERSPAN	✓	RSPAN	✓	—	✓	✓	✓	✓	✓
Flow control	—	✓	✓	✓	✓	✓	✓	✓	✓
Layer 3									
Link monitor	✓	✓	✓	✓	✓	✓	✓	✓	✓
Static routing (v4 v6)	✓	—	✓	—	✓	✓	✓	✓	✓
Hardware routing offload (v4 v6)	✓	—	✓	—	✓	✓	✓	✓	✓
Software routing only	✓	✓	—	✓	—	—	—	—	—
OSPF (v4 v6) (See Note 3.)	✓	—	—	—	✓	✓	✓	✓	✓
RIP (See Note 3.)	✓	—	—	—	✓	✓	✓	✓	✓
VRRP (v4 v6) (See Note 3.)	✓	—	—	—	✓	✓	✓	✓	✓
BGP (See Note 3.)	—	—	—	—	—	—	✓	✓	✓

Feature	GUI supported	112D-POE	FSR-124D	1xxE	4xxE	200 Series 400 Series	500 Series	1024D 1048D 1048E	3032D 3032E
IS-IS (See Note 3.)	—	—	—	—	—	—	✓	✓	✓
PIM (See Note 3.)	—	—	—	—	—	—	✓	✓	✓
Hardware-based ECMP	—	—	—	—	—	—	✓	✓	✓
Static BFD	—	✓	✓	✓	✓	✓	✓	✓	✓
uRPF	—	—	—	—	—	—	✓	✓	✓
DHCP relay feature	✓	—	✓	✓	✓	✓	✓	✓	✓
DHCP server	✓	—	—	—	✓	4xx only	✓	✓	✓
High Availability									
MCLAG (multichassis link aggregation)	Partial	—	—	—	✓	✓	✓	✓	✓
STP supported in MCLAGs	—	—	—	—	✓	✓	✓	✓	✓
IGMP snooping support in MCLAG	✓	—	—	—	✓	✓	✓	✓	✓
Quality of Service									
802.1p support, including priority queuing trunk and WRED	✓	—	✓	✓	✓	✓	✓	✓	✓
QoS queue counters	—	—	✓	—	✓	✓	✓	✓	✓
QoS marking	—	—	✓	—	✓	✓	✓	✓	✓
Summary of configured queue mappings	✓	—	✓	✓	✓	✓	✓	✓	✓
Egress priority tagging	—	—	✓	—	✓	✓	✓	✓	✓

Feature	GUI supported	112D-POE	FSR-124D	1xxE	4xxE	200 Series 400 Series	500 Series	1024D 1048D 1048E	3032D 3032E
ECN	—	—	—	—	✓	—	✓	✓	✓
Miscellaneous									
PoE-pre-standard detection (See Note 1.)	—	✓	✓	FS-1xxE POE	✓	✓	✓	—	—
PoE modes support: first come, first served or priority based (PoE models)	—	✓	✓	FS-1xxE POE	✓	✓	✓	—	—
Control of temperature alerts	—	✓	✓	—	✓	✓	✓	✓	✓
Split port (See Note 6.)	Partial	—	—	—	—	—	✓	1048E	✓
TDR (time-domain reflectometer)/cable diagnostics support	✓	—	✓	✓	✓	✓	✓	—	—
Auto module max speed detection and notification	✓	—	—	—	—	—	✓	✓	—
Monitor system temperature (threshold configuration and SNMP trap support)	—	✓	✓	FS-124E-POE FS-124E-FPOE FS-148E FS-148E-POE	✓	✓	✓	✓	✓
Cut-through switching	—	—	—	—	—	—	—	✓	✓
Add CLI to show the details of port statistics	—	✓	✓	✓	✓	✓	✓	✓	✓

Feature	GUI supported	112D-POE	FSR-124D	1xxE	4xxE	200 Series 400 Series	500 Series	1024D 1048D 1048E	3032D 3032E
Configuration of the QSFP low-power mode	—	—	—	—	—	—	✓	1048D 1048E	✓
Energy-efficient Ethernet	✓	✓	✓	✓	✓	✓	✓	—	—
PHY Forward Error Correction (see Note 5)	—	—	—	—	—	—	—	1048E	3032E
PTP transparent clock	—	—	—	—	✓	✓	✓	1048E	✓

Notes

- PoE features are applicable only to the model numbers with a POE or FPOE suffix.
- 24-port LAG is applicable to 524D, 524-FPOE, 1024D, and 3032D models. 48-port LAG is applicable to 548D, 548-FPOE, and 1048D models.
- To use the dynamic layer-3 protocols, you must have an advanced features license.
- The per-VLAN MAC learning limit and per-trunk MAC learning limit are not supported on the 448D/448D-POE/448D-FPOE/248E-POE/248E-FPOE/248D series.
- Supported only in 100G mode (clause 91).
- On the 3032E, you can split one port at the full base speed, split one port into four sub-ports of 25 Gbps each (100G QSFP only), or split one port into four sub-ports of 10 Gbps each (40G or 100G QSFP).

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

FortiSwitch 6.4.2 supports upgrading from FortiSwitch 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/6.4.2/managed-switch-release-notes>.

Product integration and support

FortiSwitch 6.4.2 support

The following table lists 6.4.2 product integration and support information.

Web browser	<ul style="list-style-type: none">• Mozilla Firefox version 52• Google Chrome version 56 <p>Other web browsers may function correctly, but are not supported by Fortinet.</p>
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 6.4.2. For inquiries about a particular bug, please contact [Customer Service & Support](#).

Bug ID	Description
563811	The DHCP server fails to send DHCPOFFER when the server uses the internal interface with snooping enabled and client accesses through relay.
578050	Setting the <code>max-reauth-attempt</code> value in 802.1x MAC-based authentication does not work.
608026	Packets are lost when the FS-448DF switch is connected to a port mapped to SOC1.
617799	The <code>diagnose switch physical-ports datarate</code> command sometimes exits to the command prompt without Ctrl+c being used.
619284, 631996	The FortiSwitch unit reports incorrect values for counters for certain OIDs.
626017	When a new link was added to an MLAG ring topology, some traffic was dropped.
631408	The MLAG-ICL is unstable when it is between FortiSwitch units and Dell VLTi switches.
633109	When a RADIUS user downloads the FortiSwitch configuration file using the GUI, the file is empty.

Known issues

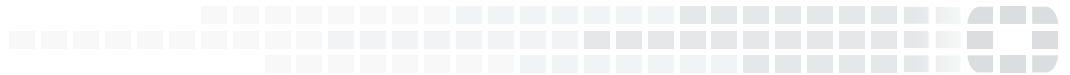
The following known issues have been identified with 6.4.2. For inquiries about a particular bug or to report a bug, please contact [Fortinet Customer Service & Support](#).

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	<p>When DHCP snooping is enabled on the FSR-112D-POE, the switched virtual interface (SVI) cannot get the IP address from the DHCP server.</p> <p>Workarounds:</p> <ul style="list-style-type: none">—Use a static IP address in the SVI when DHCP snooping is enabled on that VLAN.—Temporarily disable dhcp-snooping on vlan, issue the <code>execute interface dhcpclient-renew <interface></code> command to renew the IP address. After the SVI gets the IP address from the DHCP server, you can enable DHCP snooping.
510943	<p>The time-domain reflectometer (TDR) function (cable diagnostics feature) reports unexpected values.</p> <p>Workaround: When using the cable diagnostics feature on a port (with the <code>diagnose switch physical-ports cable-diag <physical port name></code> CLI command), ensure that the physical link on its neighbor port is down. You can disable the neighbor ports or physically remove the cables.</p>
520954	When a “FortiLink mode over a layer-3 network” topology has been configured, the FortiGate GUI does not always display the complete network.
542031	For the 5xx switches, the <code>diagnose switch physical-ports led-flash</code> 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.

Bug ID	Description
572052	<p>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.</p> <p>Workaround: Use passwords with a maximum of 15 characters for FortiSwitchOS 3.x and 6.x.</p>
585550	<p>When packet sampling is enabled on an interface, packets that should be dropped by uRPF will be forwarded.</p>
606044	<p>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.</p>
609375	<p>The FortiSwitchOS supports four priority levels (critical, high, medium, and low); however, The SNMP PowerEthernet MIB only supports three levels. To support the MIB, a power priority of medium is returned as low for the PoE MIB.</p>
610149	<p>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-124E-FPOE, FS-148E, and FS-148E-POE models.</p>
615591	<p>For power supply unit (PSU) sensors on supported hardware, the value of EntitySensorStatus will be 1 (ok) if the sensor has detected that the PSU is inserted/connected. If the PSU is not inserted (or the sensor operational status is unavailable on that platform), the value is 2 (unavailable).</p>
617755	<p>The internal interface cannot obtain IPv6 addresses with dhcpv6-snooping enabled on the native VLAN.</p>
629721	<p>HTTP and HTTPS connections from the same client or from the same browser do not work.</p> <p>Workaround: Use HTTP and HTTPS connections from different clients (with a different IP address) or different browsers (for example, Firefox for HTTP and Chrome for HTTPS) or clear the cookies between using HTTP and HTTPS.</p>
645993	<p>When IGMP snooping is enabled, IGMP packets are being forwarded out of the MRP blocking port, which causes a loop.</p> <p>Workaround: Disable IGMP snooping.</p>
646555	<p>The <code>set mirror qos</code> command (under the <code>config switch global</code> command) is available but not functional.</p>



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