



Feature Matrix for FortiSwitchOS 7.6.0

The following table lists the FortiSwitch features in Release 7.6.0 that are supported on each series of FortiSwitch models. All features are available in Release 7.6.0, unless otherwise stated. Features marked with ✓ are supported by FortiSwitch units in standalone mode; features marked with  are supported in both standalone and in managed mode. Security Fabric features are available exclusively in managed mode when supported by the FortiOS version.

Feature	GUI Supported	FSR-216F-POE	FSR-424F-POE	1xxE, 1xxF	110G-FPOE	200 Series	4xxE	500 Series	6xxF	1024E, 1048E, T1024E, T1024F-FPOE	2048F	3032E
Security Fabric (exclusively in managed mode)												
Centralized configuration												
Centralized firmware management												
Automated detection and recommendations												
Syslog collection	—											
Device detection												
Network device detection	—	—		—	—							
Block intra-VLAN traffic (See note 7.)												
Host quarantine												
Automation stitches (zero-touch provisioning automation)	—											
Integrated FortiGate network access control (NAC) function												
NAC LAN segments (See note 12.)												
FortiGuard IoT identification												
Support of matching FortiClient EMS tags in NAC policies												

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Support of matching IoT/OT vulnerabilities in NAC policies	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Support of matching FortiVoice tags in NAC policies	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
NAC: control of how long matched devices are kept	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Dynamic port policies	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
DPP: control of how long matched devices are kept	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
FortiSwitch VLANs over VXLAN	—	—	—	—	—	—	—	—	—	🔗 (1024E, 1048E, T1024E, T1024F-FPOE)	🔗	🔗
FortiLink management over VXLAN	—	—	🔗	—	—	—	🔗	🔗	—	🔗	🔗	🔗
FortiView Internal Hubs	🔗	—	🔗	—	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗
NAC device telemetry	—	—	🔗	—	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Inter-VLAN routing offload (See note 19.)	—	—	—	—	—	—	—	—	—	🔗	🔗	🔗
FortiLink Secure Fabric authentication	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
FortiLink Secure Fabric encryption	—	—	—	—	—	—	—	🔗	—	🔗 (1024E, T1024E, T1024F-FPOE)	—	—
FortiLink using HTTPS	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Management and Configuration												
CPLD software upgrade support for OS	—	—	—	—	—	—	—	—	✓	—	—	—

Feature	GUI Supported	FSR-216F-POE	FSR-424F-POE	1xxE, 1xxF	110G-FPOE	200 Series	4xxE	500 Series	6xxF	1024E, 1048E, T1024E, T1024F-FPOE	2048F	3032E
DHCPv6 snooping	✓	—	✓	—	—	✓	✓	✓	—	✓	✓	✓
DHCP-snooping static entries (IPv4)	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
DHCP-snooping option 82	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗	—	🔗	🔗	🔗
DHCP-snooping monitor mode	—	—	✓	✓	✓	✓	✓	—	—	—	—	—
Allowed DHCP server list	✓	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Flap guard	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
IP source guard (IPv4)	✓	—	🔗	—	—	🔗	🔗	—	—	—	—	—
IP source-guard violation log	—	—	✓	—	—	✓	✓	—	—	—	—	—
Dynamic ARP inspection (IPv4)	✓	—	🔗	🔗	🔗	🔗	🔗	🔗	—	🔗	🔗	🔗
ARP timeout value	—	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DAI: monitor ARP packets	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗	—	🔗	🔗	🔗
RMON group 1	—	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Reliable syslog	—	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Packet capture	🔗	🔗	🔗	🔗 (124F, 148E, 148F)	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
MACsec: PSK mode (See note 6.)	✓	—	—		—	—	—	🔗	✓	🔗 (1024E, T1024E, T1024F-FPOE)	—	—
MACsec: Dynamic-CAK mode (See note 6.)	✓	—	—		—	—	—	🔗	✓		—	—
MACsec: AWS Direct Connect support	—	—	—		—	—	—	—	—	✓ (1024E)	—	—
LINCE support	—	—	—		✓	✓ (2xxE)	✓	—	—	✓ (1024E, 1048E, T1024E, T1024F-FPOE)	—	✓
OS image signature verification (See note 17.)	✓	—	✓	✓	✓	✓	✓	—	—	✓ (1024E, 1048E, T1024E, T1024F-FPOE)	✓	✓
Network monitor	✓	—	✓	✓	✓	✓	✓	✓	—	✓	✓	✓

[illegible]

[illegible]

Feature	GUI Supported	FSR-216F-POE	FSR-424F-POE	1xxE, 1xxF	110G-FPOE	200 Series	4xxE	500 Series	6xxF	1024E, 1048E, T1024E, T1024F-FPOE	2048F	3032E
Software-based routing only (IPv4/IPv6)	✓	✓	—	✓	✓	—	—	—	✓ (IPv6)	—	—	—
Hardware-based routing (IPv4/IPv6)	✓	—	✓	—	—	✓	✓	✓	✓	✓	✓	✓
ECMP with hardware-based routing (IPv4/IPv6)	—	—	—	—	—	—	✓	✓	✓	✓	✓	✓
Static BFD (IPv4/IPv6)	✓	✓	✓	✓	✓	✓	✓	✓	✓ (IPv4)	✓	✓	✓
uRPF	—	—	—	—	—	—	—	✓	—	✓	✓	✓
DHCP relay (IPv4)	✓	—	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DHCP server (IPv4)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Layer 3: Requires Advanced Features License												
Policy-based routing (IPv4)	✓	—	✓	—	—	✓	✓	✓	—	✓	✓	✓
VRF (IPv4/IPv6)	✓	—	—	—	—	—	—	✓	✓ (IPv4)	✓	✓	✓
OSPF (IPv4/IPv6)	✓	—	✓	—	—	✓	✓	✓	✓	✓	✓	✓
BFD for OSPF (IPv4/IPv6)	✓	—	✓	—	—	✓	✓	✓	✓	✓	✓	✓
OSPF database overflow protection (IPv4)	—	—	✓	—	—	✓	✓	✓	✓	✓	✓	✓
OSPF graceful restart (IPv4, helper mode only)	—	—	✓	—	—	✓	✓	✓	✓	✓	✓	✓
OSPF: VRF support (IPv4)	✓	—	—	—	—	—	—	✓	✓	✓	✓	✓
RIP (IPv4/IPv6)	✓	—	✓	—	—	✓	✓	✓	✓	✓	✓	✓
BFD for RIP (IPv4/IPv6)	—	—	✓	—	—	✓	✓	✓	✓	✓	✓	✓
VRRP (IPv4/IPv6)	✓	—	✓	—	—	✓	✓	✓	✓ (IPv4)	✓	✓	✓
BGP (IPv4/IPv6)	—	—	✓	—	—	—	✓	✓	✓	✓	✓	✓
BFD for BGP (IPv4/IPv6)	—	—	✓	—	—	—	✓	✓	✓	✓	✓	✓
BGP: simplified fabric configuration	—	—	✓	—	—	—	✓	✓	—	✓	✓	✓

Feature	GUI Supported	FSR-216F-POE	FSR-424F-POE	1xxE, 1xxF	110G-FPOE	200 Series	4xxE	500 Series	6xxF	1024E, 1048E, T1024E, T1024F-FPOE	2048F	3032E
IS-IS (IPv4/IPv6)	✓	—	✓	—	—	✓	✓	✓	✓	✓	✓	✓
BFD for IS-IS (IPv4/IPv6)	—	—	✓	—	—	✓	✓	✓	✓	✓	✓	✓
PIM-SSM (IPv4)	✓	—	✓	—	—	—	✓	✓	—	✓	✓	✓
VXLAN: BGP EVPN	—	—	—	—	—	—	—	—	✓	✓ (1024E, 1048E, T1024E, T1024F-FPOE)	✓	✓
VXLAN: Duplicate address detection	—	—	—	—	—	—	—	—	—	✓ (1024E, 1048E, T1024E, T1024F-FPOE)	✓	✓
VXLAN: ARP/ND suppression	—	—	—	—	—	—	—	—	—	✓ (1024E, 1048E, T1024E, T1024F-FPOE)	✓	✓
High Availability												
MCLAG (multichassis link aggregation group)	Partial	—	🔗	—	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗
STP supported in MLAGs	—	—	🔗	—	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗
IGMP snooping support in MLAG	✓	—	🔗	—	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Layer-3 (IPv4) routing in MLAG	—	—	VRRP and static	—	—	VRRP and static	VRRP and static	✓	—	✓	✓	✓
High-Availability Seamless Redundancy (HSR) (See note 20.)	—	—	✓	—	—	—	—	—	—	—	—	—
Parallel Redundancy Protocol (PRP) (See note 20.)	—	—	✓	—	—	—	—	—	—	—	—	—
MRP	—	✓	—	—	—	—	—	—	—	—	—	—
MRP: 2 rings supported	—	✓	—	—	—	—	—	—	—	—	—	—
Quality of Service												
802.1p support, including priority queuing trunk and WRED (See note 18.)	✓	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
QoS queue counters	—	—	🔗	—	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Tail-drop policy	✓	—	✓	✓	✓	✓	✓	✓	🔗	✓	✓	✓

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Add CLI to show the details of port statistics	—	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗	🔗
Configuration of the QSFP low-power mode	—	—	—	—	—	—	—	✓	—	✓ (1024E, 1048E, T1024E, T1024F-FPOE)	✓	✓
Energy-efficient Ethernet	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—
PHY Forward Error Correction (See note 4.)	—	—	—	—	—	—	—	—	✓	✓ (1024E, 1048E, T1024E, T1024F-FPOE)	✓	✓
PTP version-2 transparent clock (IPv4/IPv6) (See note 8.)	—	—	🔗	—	—	🔗 (224D, 224E)	🔗	🔗	—	🔗 (1024E, 1048E, T1024E, T1024F-FPOE)	🔗	🔗
PTP layer-2 boundary clock (See note 8.)	—	—	✓	—	—	—	✓ (424E-Fiber, 448E, 448E-POE, 448E-FPOE)	—	—	—	—	—
Alias commands	—	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Automation stitches	—	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Automation stitches: triggered by storm-control drop rate	—	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Automation stitches: custom automation actions	—	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Multiple path traceroute	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wake-on-LAN packets	—	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Save event log in flash memory	—	—	✓	—	—	✓	✓	✓	—	✓	✓	✓
max-frame-size (in bytes)	—	68-10000	68-9216	68-10000	68-10000	68-9216	68-9216	68-12000	68-9412	1048E: 68-9412 1024E, T1024E, T1024F-FPOE: 68-12284	68-9412	68-9412
Support of 128 ports plus internal and mgmt	—	—	—	—	—	—	—	—	—	✓ (1048E)	—	✓

Notes

1. PoE features are applicable only to the model numbers with a POE or FPOE suffix.

2. The 24-port LAG is applicable to FS-524D and FS-524-FPOE models. The 48-port LAG is applicable to FS-548D and FS-548-FPOE models.
3. The per-VLAN MAC learning limit is not supported on the FS-108F, FS-108F-POE, FS-108F-FPOE, FS-124E, FS-124E-POE, FS-124E-FPOE, FS-124F, FS-124F-POE, FS-124F-FPOE, FS-248E-POE, FS-248E-FPOE, and FS-248D models. The per-trunk MAC learning limit is not supported on the FS-248E-POE, FS-248E-FPOE, and FS-248D models.
4. Supported for 25-Gbps and 100-Gbps ports.
5. On the FS-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).
6. Supported on the 10G ports on the FS-5xxD models, the 10G and 100G ports on the FS-1024E model, the 100G ports on the FS-T1024E model, all ports on the FS-624F and FS-624F-FPOE models, and all ports except ports 53 to 56 on the FS-648F and FS-648F-FPOE models. In FortiLink mode, MACsec can be enabled on the inter-switch link (ISL) by the FortiLink secure fabric.
7. The maximum number of access VLANs on the FS-1xxE, FS-108F, FS-108F-POE, and FS-108F-FPOE models is 16; the maximum number of access VLANs on the FS-124F model is 16; the maximum number of access VLANs on the FS-148F model is 32; the maximum number of access VLANs on the FS-6xxF models is 50..
8. The FSR-424F-POE model supports PTP transparent clock with IPv4 addresses only. The FSR-424F-POE, FS-424E-Fiber, FS-448E, FS-448E-POE, and FS-448E-FPOE models support layer-2 PTP transparent clock using the peer-to-peer mode, as well as layer-2 and layer-3 PTP transparent clock using the end-to-end mode. The FSR-424F-POE, FS-424E-Fiber, FS-448E, FS-448E-POE, and FS-448E-FPOE models support the layer-2 PTP boundary clock. The FS-224D and FS-224E models support layer-2 PTP transparent clock using the end-to-end mode.
9. In managed mode, static routing is supported exclusively for system management and connectivity to Security Fabric connectors.
10. This feature is not supported by the FS-108F, FS-108F-POE, FS-108F-FPOE, FS-124E, FS-124F, and FS-224E models.
11. The FS-148F, FS-148F-POE, and FS-148F-FPOE models report the drop rate as 0 or +VE for a positive rate.
12. There are some limitations on LAN segments on the FSR-216F-POE, FS-108F, FS-108F-POE, FS-108F-FPOE, FS-124E, FS-124E-POE, FS-124E-FPOE, FS-148E, and FS-148E-POE models. See the *FortiLink Guide (FortiOS 7.6.0)* for details.
13. Partial VLAN mapping is supported by the FS-124F, FS-124F-POE, FS-124F-FPOE, FS-148F, FS-148F-POE, FS-148F-FPOE, and FSR-216F-POE models. See the *FortiSwitchOS Administration Guide* for details.
14. When the FortiSwitch unit is using `poe-port-power perpetual-fast`, the following BIOS versions are required: 4000014 or higher for FS-124E-POE, and FS-124E-FPOE; 4000011 or higher for FS-148E-POE; 4000006 or higher for FS-108F-FPOE; and 4000007 or higher for FS-108F-POE.
15. The FS-1xx series and FSR-216F-POE model allow you to enable DHCP snooping on a maximum of 25 VLANs. The FS-6xxF series allows you to enable DHCP snooping on a maximum of 16 VLANs.
16. Only the ACL ingress policy is supported in FortiLink mode. The following FortiSwitch models do not support ACL in FortiLink mode: FS-108F, FS-108F-POE, FS-108F-FPOE, FS-124E, FS-124E-POE, FS-124E-FPOE, FS-124F, FS-124F-POE, FS-124F-FPOE, FS-148E, FS-148E-POE, FS-148F, FS-148F-POE, FS-148F-FPOE, and FSR-216F-POE.
17. OS image signature verification is not supported on the FS-224D-FPOE and FS-248D models.
18. The FS-1xxE and FS-1xxF models support a single QoS map. If there is more than one QoS map, the first configured map is used.
19. Inter-VLAN routing offload requires an advanced features license.
20. HSR and PRP can also be used with FortiLink. For more details, see the [FortiLink Guide](#).
21. The FS-1xxE and FS-1xxF models do not support the `set storm-control-high-rate` or `storm-control-rate-filter` commands.