



Model Name	FOS-ESW-EPS-5112	Version	1.00.0X	Designer	Approval
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Firmware Version 1.00.0X

Date: 2025/05/02

New Feature / System Release	Description
N/A	N/A
Update	Description
Management / TACACS+	Changing the DUT hostname from the default value causes TACACS+ login failures.
System	Following the configuration of IP settings and enabling DHCP mode, the system fails to acquire an IP address after reboot and cannot be accessed properly.

Firmware Version 1.00.0W

Date: 2025/04/29

New Feature / System Release	Description
N/A	N/A
Update	Description
Management / User Account	Using a user login password with up to 64 special characters will cause the web page to display a "502 Bad Gateway" error.
Management / RADIUS/TACACS+	Using the same username for both RADIUS/TACACS+ and the local user account will cause login failure.
Management / TACACS+	Unable to access the device through the front-end console port.

Firmware Version 1.00.0V

Date: 2025/04/18

New Feature / System Release	Description
N/A	N/A
Update	Description
Management / User Account	Extending the maximum length of the user account password to 64 characters (including RADIUS and TACACS+).
TACACS+	Modify the "Remote address" parameter in the request to use the client IP address when communicating with the TACACS+ server for authentication, authorization, and accounting.
Switch Information	Using specific characters in the DHCP server option 12 host name may



	cause incorrect host name updates.
VLAN Translation	If the name is 32 characters long and contains special characters, the last character may be truncated.
Selective QinQ	If the name is 32 characters long and contains special characters, the last character will be truncated.
Loop-Detection / SNMP	After the initial configuration failure, subsequent configurations appear successful, but no actual settings are applied through SNMP.
Link Aggregation / SNMP	In the "swPortTrunkConfiguration", if the "GroupName" field is edited without any actual change to its content, the SNMP operation will return as unsuccessful.
IGMP Snooping / IPMC Segment	In "IPMC Segment", if an existing item's "Segment Name" contains a comma (,), deleting any item will cause a parsing error during index migration for items with a comma in their "Segment Name".
IGMP Snooping / IPMC Profile / SNMP	In the "swIGMPFilterTable", when more than three items are modified in the "IPMCProfile", and the new values of earlier items match the original values of later items, the configuration fails via SNMP.
Port Mirroring / SNMP	In "swPortMirroring", when modifying only "PortMirroringEnable", an empty "swPortMirrorSourcePortConfigTable" entry is incorrectly created via SNMP.
802.1X / SNMP	In "sw8021XSystemConfig", when the value of "SecretKeyEncryption" is changed from "aes-128" to "aes-128" (i.e., no actual change), the operation returns an unsuccessful result via SNMP.
L2PT / SNMP	In "swL2PTPortConfigTable", when all items are the same as the default value, selecting "clear" will return an unsuccessful result via SNMP.
QoS / Rate-Limiter / SNMP	In "swQoSConfigRateLimiters", when setting multiple OIDs at the same time, the values of all the configured rows will be the same as the value of the last configured row via SNMP.
LACP / SNMP	In "swLACPPortConfiguration", the valid configuration is returned as unsuccessful via SNMP.

Firmware Version 1.00.0U

Date: 2025/03/10

New Feature / System Release	Description
DHCP Client	The device hostname can be assigned by the DHCP server using Option 12.
System Setup	System information supports a new parameter "Sync Host Name to



	System Name". Define: After being enabled, when the hostname is modified, the system will sync the same value to the system name (one-way).
SSH	Update "Dropbear" version to 2022.
Update	Description
Port Setup & Status	Improve the reason field of the port state to support the following reasons: 1. LKD (Link down) 2. LPD (Loop detection) 3. ML (MAC limit) 4. SC (Storm control) 5. UR (Uplink Redundancy) 6. LFW (LAN follow WAN).
DHCP Client	The process "udhcpc" experienced a memory leak due to not releasing memory allocated for environment variables, leading to a crash caused by an overflow while reading the packet option length.
IP Setup / IPv6	After setting the ipv6 auto configuration setting, enable to disable and the link local address is not connected after the machine is reboot.
IP Setup / IPv4	After firmware upgrade or reboot, system gateway will disappear.

Firmware Version 1.00.0T

Date: 2024/12/02

New Feature / System Release	Description
N/A	N/A
Update	Description
N/A	Internal use.

Firmware Version 1.00.0S

Date: 2024/08/16

New Feature / System Release	Description
N/A	N/A
Update	Description
LED / PoE	When PSE detected one of channel was failed (short) of dual PD, the port PoE LED should be blinking.

Firmware Version 1.00.0R

Date: 2024/08/14

New Feature / System Release	Description
N/A	N/A
Update	Description
LED / PoE	When the port connected PD and power feeding, but the port PoE LED doesn't light up.

Firmware Version 1.00.0Q

Date: 2024/08/12

New Feature / System Release	Description
N/A	N/A
Update	Description
PoE / PoE Status	<ol style="list-style-type: none"> Field "Output Status" add new status "Detection Fail" and "Auto Off". [Detection Fail] When PSE detected rlow, rhigh, high-cap and short. [Auto Off] Based on detection failed, if the port is linked up and will disable the PoE power (Protection Mechanism: To avoid non PD device damage). After the port linked down, will recover the port PoE power. When PSE detected connected device is single PD and field "Output Status" is manual off, schedule off, searching or detection fail, then system will disable the port PoE LED (no lights).
PoE / PoE Setup	<p>Improve behavior of "Time Schedule":</p> <p>[Old]</p> <p>When NTP time synchronize failed or disabled NTP function, the "Time Schedule" function of PoE will be stop/inactive, even NTP time already synchronized before.</p> <p>[New]</p> <p>When NTP time synchronize failed or disabled NTP function, as long as NTP time had synchronized before, then the "Time Schedule" function of PoE will keep working.</p>
Event Log / Filter	Display Log Item List:



	<p>[Add] PoE Port Detection Fail</p> <p>[Add] PoE Port Protection Mechanism</p> <p>[Modify] PoE Port Power Disable → PoE Port Power Setting</p>
Port Mirror	<p>When the mirror source port is not configured and then running-config or start-up-config is displayed, the switch will display the "no source all Direction rx" and "no source all Direction tx" error commands, it will display "1-12" instead of "all".</p> <p>Example:</p> <p>no source 1-12 direction rx</p> <p>no source 1-12 direction tx</p>
Management / Firmware Upgrade	<p>Use "Read and Write" and "Read Only" user account then enter to "Firmware Upgrade" page will cause the web page is keeping on loading and cannot stop.</p>

Firmware Version 1.00.0P

Date: 2024/06/14

New Feature / System Release	Description
IP Source Binding	IPv4/IPv6 address support to set prefix length.
Update	Description
N/A	N/A

Firmware Version 1.00.0O

Date: 2024/06/12

New Feature / System Release	Description
N/A	N/A
Update	Description
N/A	Internal use.

Firmware Version 1.00.0N

Date: 2024/06/06

New Feature / System Release	Description
System	<p>Support to forward specific packet.</p> <p>Packet Format: Slow Protocols subtype 3 (OAM).</p>
System	Speed up for restore device configuration.



Update	Description
Firmware Upgrade / WEB	Modify button name. File Type [Firmware] → Update File Type [Configuration] → Restore / Backup
Syslog	When use SSH method and login failed, device will send incorrect syslog message.
CPU Loading	Fix incorrect phenomenon "The average of CPU loading will exceed 100%".

Firmware Version 1.00.0M

Date: 2024/02/22

New Feature / System Release	Description
System	Model "ESW-5112" support new phy chipset.
Update	Description
PoE / SNMP	When PSE port detect connected port state is "Short", "OVLO", "UVLO", "Thermal Shutdown", "Request Power", and "Inrush", the parameter "pethPsePortDetectionStatus" will display wrong.
RSTP	Parameter "spanning-tree aggregated-port priority" set "240" then backup configure file, this configure value will not match from configure file.
DHCP Snooping	DHCP Opt82 Relay Agent set "Disabled" then backup configure file, this configure value will not match from configure file.

Firmware Version 1.00.0L

Date: 2024/01/25

New Feature / System Release	Description
System	Support new hardware model "EPS-5112".
Update	Description
N/A	N/A

Firmware Version 1.00.0K

Date: 2024/01/24

New Feature / System Release	Description
N/A	N/A



Update	Description
N/A	Internal use.

Firmware Version 1.00.0J

Date: 2024/01/23

New Feature / System Release	Description
N/A	N/A
Update	Description
N/A	Internal use.

Firmware Version 1.00.0I

Date: 2024/01/18

New Feature / System Release	Description
N/A	N/A
Update	Description
System / CLI	During FW Copy CLI session will follow timeout setting.

Firmware Version 1.00.0H

Date: 2024/01/12

New Feature / System Release	Description
N/A	N/A
Update	Description
RSTP / CLI	Change input method, from option code to real value. [Old] FOS-5112(config)# spanning-tree aggregated-port priority [0-15] <cr> [New] FOS-5112(config)# spanning-tree aggregated-port priority [0-240] <cr>
Firmware Copy	Execute FW Copy actually need 360 secs, modify prompt waiting time to 360 secs.

Firmware Version 1.00.0G

Date: 2023/12/25



New Feature / System Release	Description
N/A	N/A.
Update	Description
N/A	Internal use.

Firmware Version 1.00.0F

Date: 2023/12/22

New Feature / System Release	Description
N/A	N/A
Update	Description
Selective QinQ	Selective QinQ won't take effect when packet processed by a port which is a member of aggregated group.

Firmware Version 1.00.0E

Date: 2023/12/04

New Feature / System Release	Description
System	Support FAN.
CPU Loading	<ol style="list-style-type: none">1. Modify title name from "CPU & Memory Statistics" to "CPU Loading".2. Modify calculation method of alarm notification – Judgement CPU loading usage (%).3. Support statistics – 1/24/72 hour averages (%).
Memory Statistics	<ol style="list-style-type: none">1. Move to different page (System Memory) for display.2. Remove display "Buffers" and "Cached".
Management / Firmware Copy	Support that FW Image can "Copy current running image to backup image".
Update	Description
Link Aggregation	When source port is a member of aggregated group, processed packets will be transmitted back to ports in the same group.
DHCP Auto-Provision	Support judgement dhcpv6 packet include single or multiple option 17.
DHCP Snooping	Unexpected DHCP packet with wrong format will crash DHCP process.
802.1X	DUT can't complete authentication process with TLS mechanism.
DHCP Snooping / SNMP	SNMP doesn't have DHCP entry clear related MIB.

Firmware Version 1.00.0D

Date: 2023/07/25

New Feature / System Release	Description
N/A	N/A
Update	Description
MLD Snooping	MLDv2 report, type 0x8F, can't be trapped from VLAN different from management.
Debugging / MLD	MLD Debugging doesn't display message for querier timeout and state idle to active.
Debugging / MLD	MLD Debugging displays wrong message after sending a done packet to a port which is not existing in target group.
Debugging / MLD	MLD Debugging displays wrong received general/specific query max response time.
MLD Snooping	MLD group table can't display all 128 entries, only 78 entries displayed via WEB.
MLD Snooping	MLD will remove all members if one of them received done packet.
DHCP Snooping / CLI	CLI DHCP related "clear" command doesn't match WEB behavior that supports entries clearing.
WEB	Add entry via web UI, when text content input "< [a-z A-Z]" will cause not display behind symbol "<" in table.

Firmware Version 1.00.0C

Date: 2023/07/14

New Feature / System Release	Description
CLI	Supports tab autocomplete.
CLI	Supports clear command. Example: FOS-5112# clear ...
CLI	Supports enter "q" for exit.
CLI	Supports enter "end" for back to privileged mode.
MLD Snooping	MLD supports last reporter and client life time.
Debugging	Support MLD Snooping debugging function.
Update	Description



RSTP	Modify option naming of parameter "Force Version". [Old] compatible → [New] stp-compatible
RSTP	Modify priority command to use real value (e.g. 0, 4096, 8192, ..., 61440) instead of number 0-15.
802.1X	Radius secret should be shown as ***.
IGMP Snooping	Message is incorrect after port receiving an IGMP leave packet with unregistered group which is existing in DUT but not port.

Firmware Version 1.00.0B

Date: 2023/07/05

New Feature / System Release	Description
Debugging	Support IGMP Snooping debugging function.
Update	Description
N/A	N/A

Firmware Version 1.00.0A

Date: 2023/06/20

New Feature / System Release	Description
Port Counter	Support counters "Rx Oversize", "Rx Unicast" and "Tx Unicast".
Update	Description
802.1X / MAB	User name and password shouldn't be forward to server with EAP message during MAB authentication process.
Storm Control	Unknown multicast won't take effect.
System / CLI	When polled using SSH (TCP connection, login, and logout) the switch will stop responding to login requests after a couple of days.
System / SSH	Continuous login device via SSH, it will random cause SSH crash and cannot use anymore.
LACP	LACP packet carries actor system priority 0 which does not match expected default value 32768.
DHCP Snooping / CLI	The CLI command set "ip dhcp snooping dhcp-server-ip 1-3 repeat ip-address" no warning message for ipv6.

Firmware Version 1.00.09

Date: 2023/04/21



New Feature / System Release	Description
N/A	N/A
Update	Description
ACL / Rate Limiter	Extended ACL rate limiter range to 10485600 (10Gbps).
802.1X	When the port is authorized and assigned VLAN, it still cannot forward traffic out.
802.1X	Fix a buffer overflow issue in dot1x.
CLI	When enter command "ip dhcp snooping dhcp-server-ip 3 ip-address 1:F::FF" via CLI, it entered normally, but by web method not entered.

Firmware Version 1.00.08

Date: 2023/03/30

New Feature / System Release	Description
N/A	N/A
Update	Description
CLI	When CLI setting interface 1-8 port speed 2.5G and 5G, device has pass but device not support speed 2.5G and 5G.
Port Configuration / Flow Control	Modify DUT port 9-10 flow control default value to disable.
Cable Diagnosis	When test cable diagnosis 10G port, the test result of speed will show "-----".
SNMP	Port 9 and port 10 can be set speed to 10m and 100m successful, should be cannot.
SNMP	Add port MAC address item on "swPortStatus".
Fast Redundancy	Set fast redundancy via web UI, when delete entry will pop warning message, but has several redundancy characters behind.
Fast Redundancy	Set fast redundancy via web UI, when add entry 2 should check redundancy port don't duplicate of entry 1, but actually not.
System	Improve system response speed when setting web page "Port Setup".
CLI	When enter command "ip dhcp snooping dhcp-server-ip 1 ip-address [IPv6]" via CLI will find cannot set successful.
Port Setup	When port speed of drop down menu selected to 2.5G and click OK button, but port 9-10 speed still not change to 2.5G.
CLI	When enter command "show interface status 9-10" via CLI, the result is cannot display speed 2.5G and 5G.

Firmware Version 1.00.07

Date: 2023/03/07

New Feature / System Release	Description
System	Support new hardware model "ESW-5112".
Update	Description
N/A	N/A

Firmware Version 1.00.06

Date: 2023/02/16

New Feature / System Release	Description
DHCP Tag-Alteration	Support new function "DHCP Tag-Alteration".
Update	Description
RADIUS & TACACS+ / SNMP	Reallocate Radius and TACACS+ MIB OID to network management.
Auto-Backup / SNMP	Set auto-backup setup via SNMP, FTP password can accept 32 characters, but set over 24 characters will cause cannot get value.
RADIUS & TACACS+ / SNMP	Set Radius or TACACS+ secret Key Encryption via SNMP, when set to 1(aes-128) but DUT first time get response will be 2(expect 1).

Firmware Version 1.00.05

Date: 2022/07/08

New Feature / System Release	Description
N/A	N/A
Update	Description
SNMPv3	Use WEB page modify SNMPv3 USM configuration does not clean password field and set unsuccessful.

Firmware Version 1.00.04

Date: 2022/07/08

New Feature / System Release	Description
N/A	N/A
Update	Description
CLI	Input "show ip igmp filter" and "show ip igmp filter interface x" via CLI



	will find the error string. 1. Filter instead of Filiter 2. Profile instead of Prifole
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Firmware Version 1.00.03

Date: 2022/07/05

New Feature / System Release	Description
N/A	N/A
Update	Description
Port Setup / CLI	Fix interface 9-12 cannot setting auto-speed via CLI.
L2PT	DUT will not encapsulate incoming packet on VLAN tunnel port.
Backup Configure	Backup config, interface 9-12 will display "speed auto_sense" wrong string, should be "speed auto-speed".

Firmware Version 1.00.02

Date: 2022/07/01

New Feature / System Release	Description
User Authentication / AES-128 encryption	AES-128 encryption on user name/password.
User Authentication / Special characters	Input accepts special English characters except space and question mark.
Update	Description
System	Change default value of "Maximum Frame Size" to chipset maximum, FOS-5112 is 12288 Bytes.
VLAN / CLI	Do remove "Trunk VLAN group" via CLI will find only can remove VLAN ID 1-31.
CPU & Memory Statistics / SNMP	SNMP MIB file of "CPU memory and statistics" item name does not match Web page and CLI.

Firmware Version 1.00.01

Date: 2022/01/14

New Feature / System Release	Description
N/A	N/A
Update	Description
SSH / Authentication	Fixed that when establish SSH connection with Public Key, then this



	SSH session will hang.
Link Aggregation	Create "port trunking" or "LACP" group and sent packet to each other, then check MAC table will find the port is incorrect.

Firmware Version 1.00.00

Date: 2021/12/03

New Feature / System Release	Description
N/A	N/A
Update	Description
System	The Official Version.