

EFOS 3.12.0.1

Build Version 3.12.0.1 Release Notes

Release Date: 12 January 2024

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1 Overview

EFOS 3.12.0.1 supports switching and routing for datacenter deployments.

2 Deliverables

Date of Delivery

EFOS release 3.12.0.1 delivered on January 12, 2024

Distribution Method

EFOS 3.12.0.1 distributed via the Broadcom Box site.

Items Included in Delivery

Following are the items included in this delivery:

- **FIPS Deliverables:**
 - EFOS-3.12.0.1-FIPS-mib-support.tar.bz2
 - EFOS-3.12.0.1-FIPS-mibs.tar.bz2
 - EFOS-3.12.0.1-FIPS.stk
 - onie-installer-EFOS-3.12.0.1-FIPS
 - open_adk-EFOS-3.12.0.1-FIPS.tar.bz2
- **Non-FIPS Deliverables**
 - EFOS-3.12.0.1-mib-support.tar.bz2
 - EFOS-3.12.0.1-mibs.tar.bz2
 - EFOS-3.12.0.1.stk
 - onie-installer-EFOS-3.12.0.1
 - open_adk-EFOS-3.12.0.1.tar.bz2

New Features in EFOS 3.12.0.1

- PFC Watchdog support
- BGP changes to support RFC 7606 as applicable
- Display PSU details in “show hardware” command.
- Add default timeout in utility menu during switch boot-up
- OpenSSL Upgrade for non-FIPS.
- SDK Upgrade.

Defect Fixes in 3.12.0.1

- **CS00012307853:** Broadcom BES-53248 switch port licensing and NetApp RCF configuration do not mesh well
- **FP-287059:** 10G ports are not coming up in a specific sequence of pullout and plugin events. plugin 25G transceiver->pullout 25G transceiver->Plugin 10G transceiver..
- **FP-287708:** port-security sticky mac-address not converted to dynamic from static if sticky mode is disabled.
- **FP-286839:** Traffic is not forwarding correctly when MLAG member port is flapped.
- **FP-286313:** Memory depletion with multiple no operation commands been run shut and no shut script.
- **FP-287157:** mac address shown in FDB table as learned for authentication failed MAB client.
- **FP-281845:** EFOS:Script apply is failing due to class-map configuration error.

3 Items Not Included in Delivery

The following items are specifically not included in this delivery and may be considered for future deliveries:

- Not Applicable

4 Platform Support

This release contains support for the following platforms:

- BES-53248

5 Known Limitations

- No known limitations

6 Known Issues in EFOS 3.12.0.1

FP-283596: ERR truncating integer value > 32 bits' pops up on the switch after 497 days or later.

Note: This is a known limitation with net-snmp on the standard MIB, as the MIB definition is defined as a 32-bit integer.

Internal Defect: AXM765 module has 2 versions. Occasionally, AXM765v1 doesn't get detected or come up during a reboot. Occasionally, AXM765v2 takes longer to come up on reboot or user may see a single link flap on reboot.

Workaround: For AXM765v1, User can reboot the device again or plug-out and plug-in the SFP. This is a known issue with the specific SFP. For AXM765v2, there is no need for a workaround, and it's seen only during reboot.

Internal Defect: User configured auto-negotiation/speed settings are not retained after save and reload for some 40G/100G ports.

Workaround: With the auto-detect/auto-config feature, the user configured settings are overridden after save/reload. By default, the auto-config settings should work. If user wants to override the value, the port must be re-configured after re-load.

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Internal Defect: When copper SFPs are used with FIXED speeds, the remote port doesn't go down, even if the local port is admin shutdown.

Note: This is a limitation with only the Copper SFPs, when operating at FIXED speeds. when a port is put shutdown, Copper 1G/10G SFP in Fixed speed does not put the complete line down (This is the PHY on the copper SFP to partner and not System to Line, so it continued to send the pulses to the peer port) which caused the link up on other side.

Internal Defect: If a switch is downgraded from EFOS 3.7.x.x or later to 3.4.x.x and then upgraded again to 3.7.x.x/3.8.x.x, the switch might report an "image validation failure" on bootup and fails to boot.

Recovery: Use the ONIE installation procedure to install the software image. This procedure requires the ONIE installation package.

Internal Defect: 40G port does not come UP when connected to a switch running old version of EFOS (3.11 or earlier).

Recovery: Upgrade the partner to EFOS 3.12 or later.

Note 1: Password Lockout feature is disabled by default from EFOS 3.8 onwards.

Note 2: Digital signing for image download is enabled by default from EFOS 3.4.4.4 onwards.