

Cisco Firepower 4100/9300 FXOS Release Notes, 2.12(1)

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This document contains release information for Cisco Firepower eXtensible Operating System (FXOS) 2.12.0.

Use these Release Notes as a supplement with the other documents listed in the documentation roadmap:

- <http://www.cisco.com/go/firepower9300-docs>
- <http://www.cisco.com/go/firepower4100-docs>



Note The online versions of the user documentation are occasionally updated after the initial release. As a result, the information contained in the documentation on Cisco.com supersedes any information contained in the context-sensitive help included with the product.

Introduction

The Cisco security appliance is a next-generation platform for network and content security solutions. The security appliance is part of the Cisco Application Centric Infrastructure (ACI) Security Solution and provides an agile, open, secure platform that is built for scalability, consistent control, and simplified management.

The security appliance provides the following features:

- Modular chassis-based security system—Provides high performance, flexible input/output configurations, and scalability.
- Chassis Manager—Graphical user interface provides a streamlined, visual representation of the current chassis status and allows for simplified configuration of chassis features.
- FXOS CLI—Provides command-based interface for configuring features, monitoring chassis status, and accessing advanced troubleshooting features.
- FXOS REST API—Allows users to programmatically configure and manage their chassis.

What's New

New Features in FXOS 2.12.1.72

Fixes for various problems (see [Resolved bugs in FXOS 2.12.1.72, on page 16](#)).

New Features in FXOS 2.12.1.48

Fixes for various problems (see [Resolved bugs in FXOS 2.12.1.48, on page 15](#)).

New Features in FXOS 2.12.1.29

Fixes for various problems (see [Resolved bugs in FXOS 2.12.1.29, on page 13](#)).

New Features in FXOS 2.12.0.498

Fixes for various problems (see [Resolved bugs in FXOS 2.12.0.498, on page 10](#)).

New Features in FXOS 2.12.0.467

Fixes for various problems (see [Resolved bugs in FXOS 2.12.0.467](#)).

New Features in FXOS 2.12.0.450

Fixes for various problems (see [Resolved bugs in FXOS 2.12.0.450](#)).

New Features in FXOS 2.12.0.432

Fixes for various problems (see [Resolved bugs in FXOS 2.12.0.432](#)).

New Features in FXOS 2.12.0.31

Fixes for various problems (see [Resolved bugs in FXOS 2.12.0.31](#)).

Cisco FXOS 2.12.0 introduces the following new features:

Table 1: New Features in FXOS 2.12.0

Feature	Description
QOS CLIs	<p>You can now use the Show interface ethernet <slot> <port> match statistics CLI to track the intermediate drops happening on the TCAM</p> <p>You can now police the traffic queues using the Show interface ethernet <slot> <port> policer statistics police CLI to prevent the exorbitant traffic rates going through strict priority queues</p> <p>You can now control the traffic rates using the show queuing interface ethernet <slot> <port> CLI during congestion to prevent loss of data packets</p>
Switch packet path	You can now debug switch packet path issue for the Secure Firewall 3100 devices
ASA and FTD SNMP Unification	You can now configure the Admin Instance drop-down menu for SNMP unification of ASA and FTD devices.

Software Download

You can download software images for FXOS and supported applications from one of the following URLs:

- Firepower 9300 — <https://software.cisco.com/download/type.html?mdfid=286287252>
- Firepower 4100 — <https://software.cisco.com/download/navigator.html?mdfid=286305164>

For information about the applications that are supported on a specific version of FXOS, see the *Cisco FXOS Compatibility* guide at this URL:

<https://www.cisco.com/c/en/us/td/docs/security/firepower/fxos/compatibility/fxos-compatibility.html>

Important Notes

- In FXOS 2.4(1) or later, if you are using an IPSec secure channel in FIPS mode, the IPSec peer entity must support RFC 7427.
- When you configure Radware DefensePro (vDP) in a service chain on a currently running threat defense application on a Firepower 4110 or 4120 device, the installation fails with a fault alarm. As a workaround, stop the threat defense application instance before installing the Radware DefensePro application.



Note This issue and workaround apply to all supported releases of Radware DefensePro service chaining with threat defense on Firepower 4110 and 4120 devices.

- **Firmware Upgrade**—We recommend upgrading your Firepower 4100/9300 security appliance with the latest firmware. For information about how to install a firmware update and the fixes included in each update, see <https://www.cisco.com/c/en/us/td/docs/security/firepower/fxos/firmware-upgrade/fxos-firmware-upgrade.html>.
- When you upgrade a network or security module, certain faults are generated and then cleared automatically. These include a “hot swap not supported” fault or a “module removed when in online state” fault. If you have followed the appropriate procedures, as described in the [Cisco Firepower 9300 Hardware Installation Guide](#) or [Cisco Firepower 4100 Series Hardware Installation Guide](#), the fault(s) are cleared automatically and no additional action is required.

System Requirements

- You can access the chassis manager using the following browsers:
 - Mozilla Firefox—Version 42 and later
 - Google Chrome—Version 47 and later
 - Microsoft Internet Explorer—Version 11 and later

We tested FXOS 2.12.0 using Mozilla Firefox version 42, Google Chrome version 47, and Internet Explorer version 11. Other versions of these browsers are expected to work. However, if you experience any browser-related issues, we suggest you use one of the tested versions.

Upgrade Instructions

You can upgrade your Firepower 9300 or Firepower 4100 series security appliance directly to FXOS 2.12.0 if it is currently running FXOS version 2.2(2) or later. Before you upgrade your Firepower 9300 or Firepower 4100 series security appliance to FXOS 2.12.0, first upgrade to FXOS 2.2(2), or verify that you are currently running FXOS 2.2(2).

For upgrade instructions, see the [Cisco Firepower 4100/9300 Upgrade Guide](#).

Installation Notes

- An upgrade to FXOS 2.12.0 can take up to 45 minutes. Plan your upgrade activity accordingly.
- If you are upgrading a Firepower 9300 or Firepower 4100 series security appliance that is running a standalone logical device or if you are upgrading a Firepower 9300 security appliance that is running an intra-chassis cluster, traffic does not traverse through the device while it is upgrading.
- If you are upgrading a Firepower 9300 or a Firepower 4100 series security appliance that is part of an inter-chassis cluster, traffic does not traverse through the device being upgraded while it is upgrading. However, the other devices in the cluster continue to pass traffic.
- Downgrade of FXOS images is not officially supported. The only Cisco-supported method of downgrading an image version of FXOS is to perform a complete re-image of the device.

Resolved and Open Bugs

The resolved and open bugs for this release are accessible through the Cisco Bug Search Tool. This web-based tool provides you with access to the Cisco bug tracking system, which maintains information about bugs and vulnerabilities in this product and other Cisco hardware and software products.



Note You must have a Cisco.com account to log in and access the Cisco Bug Search Tool. If you do not have one, you can [Cisco.com](https://www.cisco.com).

For more information about the Cisco Bug Search Tool, see the [Bug Search Tool Help & FAQ](#).

Open Bugs in FXOS 2.12.0.31

The following table lists the open bugs in FXOS 2.12.0.31:

Caveat ID Number	Description
CSCwc03242	BC01_IBMC01_showTechSupport_log core generated while collecting techsupport logs

Resolved bugs in FXOS 2.12.0.31

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.12.0.31:

Caveat ID Number	Description
CSCvy83696	ENH: FPR 4100/9300 bcm_usd process logs to support possible RCA
CSCwa03285	Upgrade to 2.10.1.166 causes degraded SM - Unrecognized Firmware format
CSCwa85297	Multi-instance internal portchannel VLANs may be misprogrammed causing traffic loss
CSCvu36664	FXOS Operational State:Thermal-problem intermittently
CSCvx76651	ENH: Prevent CCL IP addressing on the 169.254.x.x subnet on cluster creation

Caveat ID Number	Description
CSCvz01271	Need show command to see the details of transceiver of FXOS mgmt port via CLI
CSCvz94217	App-instance startup version is ignored and set to running-version after copy config
CSCwa52215	Uploading firmware triggers data port-channel to flap
CSCwb84638	Portmanager/LACP improvement to capture logging events on external event restarts
CSCvz72467	Cisco FXOS and NX-OS Software Cisco Discovery Protocol Service Denial of Service
CSCwa55772	FPR 4100 saw an unexpected reload with reason "Reset triggered due to HA policy of Reset"
CSCvu76180	Serviceability Request - Add error message that FXOS firmware is not fully activated
CSCvy83657	FXOS process core pruned/deleted from system files (no validation)
CSCvz14640	FXOS System temporary directory usage is unexpectedly high
CSCvz50201	FXOS may display fault F1256 about missing local disk 0
CSCvy48764	SSH access with public key authentication requires user password
CSCvy95497	Chassis SSD firmware upgrade may be prevented improperly
CSCvy80380	Disk utilization increasing /var/tmp in FPR4150-ASA chassis
CSCvz01285	Need show command to see the details of FPGA version on Firepower devices
CSCvz94740	FXOS traceback and reload due Service "ascii-cfg" sent SIGABRT for not setting heartbeat.
CSCwb74357	FXOS is not rotating log files for partition opt_cisco_platform_logs
CSCwa62167	CIAM: Apache-http-server CVE-2021-44790 and CVE-2021-44224
CSCvz71282	FXOS high Align-Err counter on port-channel48
CSCvz91266	FXOS A crafted request uri-path can cause mod_proxy to forward the request to an origin server...
CSCvt13808	ENH: FP 4100/9300 - FTD and FXOS SNMP unification
CSCvx04995	Fault F0736 should not be generated due to unreachable default gateway
CSCvy81369	ENH: Include dmesg -T command output in FXOS show-tech files
CSCwb15170	RM 1120 Port state going down, speed is 100/10 and duplex full/Half, speed and duplexmismatchpresent
CSCwb73356	nvrn logs consistently written every 2 seconds causing high disk utilization

Resolved bugs in FXOS 2.12.0.432

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.12.0.432:

Caveat ID Number	Description
CSCvy99348	Shutdown command reboots instead of shutting the FPlk device down.
CSCwb49416	ASA snmpd Traceback & cores on an active unit
CSCwb90940	Data interfaces are not coming up on KP device after deploying 9.18.0.114 image
CSCwc03510	Kilburn Park freezes / crashes on netboot system load
CSCwb62059	Unable to login on FTD using external authentication after upgrade from 7.0.1--->7.2.-1947
CSCwb70030	MIO: No blade reboot during CATERR if fault severity is non-Severe or CATERR sensor is different
CSCwb93924	sfp-detect not working correctly on fixed and epm ports
CSCwc02133	Root shell injection in security module "support fileview" command
CSCwc41590	Upgrade fail & App Instance fail to start with err "CSP_OP_ERROR. CSP signature verification error."
CSCvz74356	FDM 1010 device management interface not reflecting the correct status
CSCwa90735	ASAconsole.log files fail to rotate
CSCwa99171	Chassis and application sets the time to Jan 1, 2010 after reboot
CSCwb83756	TPK netmod OIR fills log with error messages until complete
CSCwc08094	Update CiscoSSL to 1.1.1o.7.3sp.143
CSCwb58007	FTDv on Azure - Traceback on Thread PTHREAD
CSCwa71071	Update certificate bundle for 7.2 release
CSCwb41361	WR8, LTS18 and LTS21 commit id update in CCM layer (seq 26)
CSCwb25246	ASAv SSH session getting terminated with ospf network command using Azure / Azure Stack hub
CSCwc45356	FXOS: Support a single PID type for FPR3100 platforms
CSCwa88148	ENH: Fail-to-Wire feature switching standby/bypass from CLI
CSCwb10884	WM11xx: Getting "ERROR: waiting for fxos_log_shutdown" during shutdown.
CSCwb94573	3140 - Platform fault - Code: F1374 - Severity: Critical
CSCwb97486	FPR3100: 25G optic may show link up on some 1/10G capable only fiber ports

Caveat ID Number	Description
CSCwb27099	FXOS: Third-party interop between Ciena Waveserver with firepower chassis.
CSCwb84638	Portmanager/LACP improvement to capture logging events on external event restarts
CSCwb01633	FXOS misses logs to diagnose root cause of module show-tech file generation failure
CSCwb12465	FIPS self-tests must be run when CC mode is enabled - files are missing
CSCwb74357	FXOS is not rotating log files for partition opt_cisco_platform_logs
CSCwb95787	FPR1010 - No ARP on switchport VLAN interface after portmanager DIED event
CSCwb57988	The smConLogger traceback is caused by memory leak.
CSCwb85516	Update the entity mib with new EPM details for WA-B/TPK
CSCwb89065	Warn when TPK borough/temple fpga versions are below minimum
CSCwc37196	FPR3100: 8x1G copper netmod may incorrectly report obsolete firmware on boot
CSCwb02689	FXOS should check reference clock stratum instead of NTP server's local clock stratum
CSCwb40662	ENH: FCM should include option for modifying the interface 'link debounce time'
CSCwb46385	REST API Support for debounce time configuration
CSCwb85391	TPK Ctrl-FPGA version check broken

Resolved bugs in FXOS 2.12.0.450

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.12.0.450:

Caveat ID Number	Description
CSCwb12119	CIAM: expat - CVE-2022-25235 and others
CSCwb24367	Evaluation of ssp for Dirty Pipe vulnerability
CSCwb70138	CIAM: python CVE-2015-20107
CSCwc30692	TPK 3140 Maryland: %ERROR% - Switch device not found! during reboot
CSCwb44662	CIAM: zlib - CVE-2018-25032
CSCwb62105	CIAM: glibc 2.33 CVE-2022-23219 and others
CSCwb71554	CIAM: libxml - CVE-2022-23308
CSCwc30239	CIAM: apache-http-server - CVE-2022-31813 and Others
CSCwc34082	CIAM: curl - CVE-2022-22576 and others
CSCwc75082	25G-SR should default to RS-FEC (IEEE CL108) instead of FC-FEC

Caveat ID Number	Description
CSCwb80192	WR6, WR8 commit id update in CCM layer(Seq 30)
CSCwb84967	Firepower 9300 chassis troubleshoot file caused outage
CSCwc08676	WR6, WR8, LTS18 and LTS21 commit id update in CCM layer (Seq 32)
CSCwc25207	WR6, WR8, LTS18 and LTS21 commit id update in CCM layer (Seq 33)
CSCwc46569	WR8, LTS18 and LTS21 commit id update in CCM layer (Seq 34)
CSCwc60907	WR6, WR8, LTS18 and LTS21 commit id update in CCM layer (Seq 35)
CSCwc69036	In TPK 3110, baseline boot from rommon failed as "unable to unlock or revert SED"
CSCwc83037	WR6, WR8, LTS18 and LTS21 commit id update in CCM layer (Seq 36)
CSCwb71582	CIAM: strongswan - CVE-2021-45079
CSCwb83166	Upgrade to CiscoSSL FOM 7.3sp and CiscoSSL 1.1.1o.7.3sp.143-fips in SSP MIO
CSCwc03393	Lina traceback and core file size is beyond 40G and compression fails on FTD
CSCwc08374	Azure ASA NIC MAC address for Gigeth 0/1 and 0/2 become out of order when adding interfaces
CSCwd07413	FMC - Editing member interfaces on port-channel is stuck on "Updating interface" window
CSCvz19364	FXOS does not send any syslog messages when the duplex changes to "Half Duplex"
CSCwb21037	FCM smart license error when smart licensing reports synced
CSCwb80108	FP2100/FP1000: Built-in RJ45 ports randomly not coming up after portmanager restart events
CSCwb95383	KP FDM-HA is in suspended state with no failover after reverting from 7.3 to 7.1
CSCwc25523	Registering the device for Telemetry is failing in DEV images due to missing security certificates
CSCwc31619	TPK: DME error for invalid card id with SwitchCardPowerCtrlModule
CSCwc47386	vFMC WebUI inaccessible after CC mode was enabled in 7.3.0-1553: ERR_CONNECTION_REFUSED
CSCwc51827	Getting portmanager Died Error after installing 7.3.x build on wm1010
CSCwc61106	Unable to configure domain\username under cfg-export-policy in FXOS
CSCwc75061	FMC allows shell access for user name with "." but external authentication will fail
CSCwc76195	Fail-To-Wire interfaces flaps intermittently due to watchdog timeout in KP platform
CSCwd08626	FTW: port pairs unexpectedly going to bypass due to failure

Caveat ID Number	Description
CSCwd09546	WA: portmanager sfp OIR routine uses insufficient table for module debounce
CSCvz42084	Update msmtplib driver to fix FMC SMTP email send failures
CSCvz44638	FXOS changes for CSCvy86319 - Data are not getting destroy after formatting disk0 on ISA3K
CSCwb57524	FTD upgrade fails - not enough disk space from old FXOS bundles in distributables partition
CSCwb73678	/var/tmp partition fullness warning on FXOS
CSCwb88090	FXOS:after fxos config import new port-channel creation causing existing port-channel flap
CSCwb94573	3140 - Platform fault - Code: F1374 - Severity: Critical
CSCwb94980	TPK: SFP insertion events are missed for base fiber ports including mgmt port.
CSCwc08683	The interface's LED remains green blinking when the optical fiber is unplugged on FPR1150
CSCwc29384	KP - Add DMA memory segments to corefile generated by livecore
CSCwc37061	SNMP: FMC doesn't reply to OID 1.3.6.1.2.1.25.3.3.1.2
CSCwc41591	[IMS_7_3_0] core.portmgr_ipc found on WM1010 during redeploy all policies
CSCwc46847	FXOS partition opt_cisco_platform_logs on FP1K/FPR2K may go Full due to ucssh_*.log
CSCwc60463	FXOS is not rotating log messages files for partition opt_cisco_platform_logs
CSCwc94062	[FTDv/Kenton/ISA3k - FXOS] Add sshd monitor capability to restart sshd in case it fails.
CSCwc94670	TPK svc_sam_statsAG memory leak
CSCvz77202	RMU read stale entries on the int ctrl link between x86 Denverton CPU and Marvel 88E6390X switch
CSCwb77818	Telemetry stays in enabled state even after SL is deregistered from CLI
CSCwc77879	Autopsy Uncore utility support for Vermont branch
CSCwc32584	WM 1150: Upgrade to asa image "99.16.4.24-198" fails on Wm1150 platform
CSCwb48166	FXOS upgrade to 2.11 is stuck
CSCwb66175	MIO is not able to register. appAG process issue
CSCwc76849	link state propagation stops working when performing full chassis reboot
CSCwc26489	ENH - Setting the zmqio sched policy and priority for MIO heartbeat channel

Caveat ID Number	Description
CSCwc74905	FXOS: FPR-X-NM-8X10G ports 7 and 8 are unconfigurable.

Resolved bugs in FXOS 2.12.0.467

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.12.0.467:

Caveat ID Number	Description
CSCwc37695	In addition to the c_rehash shell command injection identified in CVE-2022-1292
CSCwc82169	FPR4100/9300 Blade discovery may hang due to internal communication failure with blade adapter
CSCwd31427	FMC allowing explicit format version of EC parameters with syslog over TLS in CC mode
CSCwd34662	LTS18 and LTS21 commit id update in CCM layer (seq 39)
CSCwb89257	Remote user login via SSH access with password authentication method fails after FXOS upgrade
CSCwc57204	FXOS not responding to SSH connection
CSCwc87441	for system processes limit the CPUs used to the number of system CPUs
CSCwd06758	No input validation for logical device DNS servers in bootstrap configuration on chassis manager
CSCwd37560	Adding forceReboot option for bundle install REST API
CSCwd45784	FXOS SWIMS Engine update to version 3.0.4
CSCwd45904	Livecore does not return proper error code when there is no space
CSCwd47340	Potential memory leak in svc_sam_envAG process
CSCwb52656	SNM trace logs have incorrect timestamps
CSCwd47481	WR6, WR8, LTS18 and LTS21 commit id update in CCM layer (Seq 40)
CSCwd65327	WR6, WR8, LTS18 and LTS21 commit id update in CCM layer (Seq 41)
CSCwc96726	R2130 use the Wind River CIS_LTS21_R2130 OS branch for the 7.3.0 Beta2 release.

Resolved bugs in FXOS 2.12.0.498

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.12.0.498:

Caveat ID Number	Description
CSCwe07734	ASA goes to failsafe mode after FXOS upgrade

Caveat ID Number	Description
CSCwb24306	Duplicate log entry for /mnt/disk0/log/asa_snmp.log
CSCwc49353	QP MI FTD HA pair goes to disabled state
CSCwc83495	Add abort in switch_driver to crash portmanager in case udbs are corrupted
CSCwd58188	Inline-pair's state could not able to auto recover from hardware-bypass to standby mode.
CSCwd68346	ASA MIO-blade heartbeat failure due to kernel crash, leads to MEZZ core
CSCwd72680	FXOS: FP2100 FTW timeout triggered by high CPU usage during FTD Access Control Policy deploy.
CSCwd74839	30+ seconds data loss when unit re-join cluster
CSCwd89349	WR6, WR8, LTS18 and LTS21 commit id update in CCM layer (seq 42)
CSCwd95415	The Standby device going in failed state due to snort heartbeat failure
CSCwd96766	41xx: Blade does not capture or log a reboot signal
CSCwd99885	Bad code change to portmgr_ipc.c
CSCwe14619	The standby device going in failed state due to snort heartbeat failure(Precommit Build Failure)
CSCwe20714	7.4.0-1603 WA/TPK-HA Traffic doesn't work for non static mac address interface
CSCwe24532	Multiple instances of nvram.out log rotated files under /opt/cisco/platform/logs/
CSCwe25025	8x10Gb netmod fails to come online
CSCwe30653	FTD upgrade failure at "999_finish/999_zz_install_bundle.sh" due to bad key cert
CSCwe32394	ssp abort/reload: terminate called after throwing an instance of 'Stb::bad_alloc' from overload.cpp
CSCwe51412	Port-channel down with Suspended status on member-ports
CSCvx71936	FXOS: Fault "The password encryption key has not been set." displayed on FPR1000 and FPR2100 devices
CSCwa75392	Missing warning message when upgrading FXOS
CSCwb30042	SA for msglyr and switch/src/HAL_Layer code
CSCwc10545	system_pid_specific_misc_defs.json has incorrect system cores for TPK
CSCwc12719	Modify tech-support to capture additional debug info (show portmanager switch vlans)
CSCwc34801	[IMS_7_3_0]REST_API::Network::getMTU [ERROR] when setting network information during firstboot

Caveat ID Number	Description
CSCwc69977	Null pointer check missing in sfp display routine
CSCwc83851	OIR errors in portmgr.out
CSCwd10139	Ping to ipv6 gw with system fails, works without it
CSCwd12978	WA-B: ASA show env command displays PSU information incorrectly
CSCwd43666	Analyze why there is no logrotate for /opt/cisco/config/var/log/ASAconsole.log
CSCwd53448	FPR3100: 4x40 network module LEDs do not blink with traffic
CSCwd56266	KP- FTP under local-mgmt not working
CSCwd56462	LLDP:Neighbors not getting discovered on the first breakout port without deleting the lldp config
CSCwd68159	LLDP::Removing a member port from the port channel completely removes the lldp neighbors
CSCwd82787	Upgrade request errors flood portmgr.out after netmod removal
CSCwd92804	FAN LED flashing amber on FPR2100
CSCwd95063	npu accel - nam_client ipc_recv_timeouts - effects FXOS npu-accel local-mgmt, lina stats calls
CSCwe02421	FPR-X-NM-6X1SX-F not recognized on FP3100 or FP4200
CSCwe13577	Audit log is missing for Mgmt port change
CSCwe18145	Interface speed is not updated on FTD
CSCwe21569	Improve CLI options for management IP with dhcp option
CSCwe22302	Partition "/opt/cisco/config" gets full due to wtmp file not getting logrotated
CSCwe32972	stdout_env_manager.log is full of unknown board type 3 messages
CSCwe33910	sr_build.log has the same three messages repeated every minute
CSCwe33943	svc_sam_serviceOrchAG.log is filled with repeating worthless messages every minute
CSCwe36758	3105: F78672 after a reboot
CSCwe48918	LTS18 CCM Sequence number 44 to update the libjitterentropy to version 3.4.1
CSCwe59989	Workaround to fix build breakage introduced by Wind River CCM commit
CSCwe63794	Reduce fault severity level for RAID degrade due to disk is still in spare state
CSCwb88729	FTD - %FTD-3-199015: port-manager: Error: DOM Block Read failure, port X, st = X log false/positive

Caveat ID Number	Description
CSCwe24440	disk-controller remove/remove-secure description doesn't match
CSCwe34512	JENT: Add JENT library to fxos to support KP.
CSCwd35074	Telemetry registration is failing in 2.13.
CSCwd99813	Supervisor does not reboot unresponsive module/blade due to CATERR with minor severity sensor ID 50
CSCwe33130	Supervisor does not reboot unresponsive module/blade due to IERR with minor severity sensor ID 79
CSCvx62999	Non-zero input discards in MI CCL interface
CSCwb40008	Sometimes device goes for reboot, when powering on of alpertron netmod in 4100 device
CSCwb80881	CSSMGR_log core found while testing snmp trap on 2.8.1.184
CSCwe79216	Update Broadcom SDK patch for field alert notification for Trident2
CSCwe22152	SNMPD cores seen in in snmp_sess_close and notifyTable_register_notifications
CSCwe19968	Enhance to log FTW kicking delay and compensate the delay for kicking
CSCwe59809	WR6, WR8, LTS18 and LTS21 commit id update in CCM layer (seq 45)
CSCwe49180	Statsclient hap reset and boot loop after enabling SNMP unification in 92.13

Resolved bugs in FXOS 2.12.1.29

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.12.1.29:

Identifier	Headline
CSCwb75786	Deploy failure seen as "argument content is null" in 730.
CSCwd34288	FP1000 - During boot process in LINA mode, broadcasts leaked between interfaces resulting in storm.
CSCwd94183	Blade not coming up after FXOS update support on multi-instance due to ssp_ntp.log log rotation prob.
CSCwe30867	Workaround to set hwclock from ntp logs on low end platforms.
CSCwe74916	Interface remains DOWN in an Inline-set with propagate link state.
CSCwe88600	vFTD sshd silent crash, possibly due to probes in Azure with LB.
CSCwe93802	WR6, LTS18 and LTS21 commit id update in CCM layer (Seq 46).

Identifier	Headline
CSCwf08515	FPR3100: ASA/FTD High traffic impact on all data interfaces with high counter of "demux drops".
CSCwf014729	Need to use CiscoSSL with FOM 7.3 for Intel Builds.
CSCwf17858	node is leaving TPK cluster due to interface health check failure.
CSCwc76419	Unnecessary FAN error logs needs to be removed from thermal file.
CSCwd67101	FPR1150 : Exec format error seen and the device hung until reload when erase secure all is executed.
CSCwd81123	High CPU Utilization on FXOS for processes smConlogger.
CSCwe50993	SNMP on SFR module goes down and won't come back up.
CSCwe70472	Upgrade third-party component rng-tools to latest 6.16 version.
CSCwe90524	Enh: Add timestamp in interface IPC message.
CSCwf03490	portmanager.sh outputting continuous bash warnings to log files.
CSCwf16278	TPK 2.12 MGMT Port not able to ping gateway after application installation.
CSCwf22483	SSH to Chassis allows a 3-way handshake for IPs that are not allowed by the config.
CSCwf37871	Attempt go 1.19.4 in LTS18 Branches but go back to 1.12.12 release.
CSCwf40113	TPK/WA - OSPF packets land in multiple RX rings.
CSCwf18647	Brentwood and Maryland squelch settings modification missing from _X netmod variants.
CSCvz91293	ENH: Include exported chassis configuration in chassis show-tech file.
CSCwc12716	modify tech-support to capture additional debug info (control link register details).
CSCwd34920	ENH: Need to preserve topout.log to contain data of last 5 days minimum.
CSCwe45653	ENH: FXOS need to track Security Module for Disk quota exceeded related issue.
CSCwe79517	ENH: TPK show portmanager counters to dump counters for default drop rules.
CSCwe64773	core.svc_sam_dcosAG file seen on device after erase configuration
CSCwe83544	After upgrade ha interface remains down on one node.
CSCwa98094	MI information is missing in tech-support
CSCwf16886	Universal p4tickets are in plaintext in source code
CSCvz69950	Include output of 'show storage detail command in FPR3100 FPRM/tech_support_brief file

Identifier	Headline
CSCwb06934	Include output of 'show slot expand detail' command in FPR3100 tech_support_brief file

Resolved bugs in FXOS 2.12.1.48

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.12.1.48:

Caveat ID Number	Description
CSCwe87745	FXOS CLI to show last programming changes
CSCwf57856	FXOS Traceback and reload caused by leak on MTS buffer queue
CSCwh22888	FXOS: Remove enforcement of blades going into degraded state after multiple DIMM correctable errors
CSCwb71519	ENH: F1661 More details on failure reason and log location
CSCwh82859	SSHd cores found after Azure VPN Performance test
CSCvx44261	SNMPv3: Special characters used in FXOS SNMPv3 configuration causes authentication errors
CSCwf82279	Excessive logging of ssp-multi-instance-mode messages to /opt/cisco/platform/logs/messages
CSCwa65801	"show ntp all" logs are not clear enough and lead to uncertainty and confusion
CSCwh04730	ASA/FTD HA checkheaps crash where memory buffers are corrupted
CSCwe81841	FXOS needs to provide a command that will display the total power on hours of chassis/blade
CSCwf36066	WM/TPK/WA "FTD only": Packet drops observed after removing PC member from Port-channel
CSCwh54477	The FMC is showing "The password encryption key has not been set" alert for a Firepower 1100/2100 and Secure Firewall 3100 series devices
CSCwh55178	FXOS: svc_sam_dcosAG process getting crashed repeatedly on FirePower 4100
CSCwc48701	Secure Firewall 3100 MI: ftd instance failed to come online after chassis reboot
CSCwf95288	Firepower 1000 Switchport passing CDP traffic
CSCwh17366	Upgrade to CiscoSSH 1.12.39 in FXOS
CSCwh18967	Include "show env tech" in FXOS FPRM troubleshoot
CSCwh24321	FXOS: Alpertion 100G NetMod not being acknowledged properly
CSCwf44354	JENT: Expand JENT library support to CiscoSSL for all FXOS targets

Caveat ID Number	Description
CSCwf55654	Secure Firewall 3100/4200 - Incorrect 'Management1/1' interface status on Lina & FTD
CSCwf63589	FTD snmpd process traceback and restart
CSCwh09113	FPR1010 in HA failed to send or receive to GARP/ARP with error "edsa_rcv: out_drop"
CSCwb97626	FXOS should display ROMMON logs
CSCwf35500	FXOS/SSP: System should provide better visibility of DIMM Correctable error events
CSCwf88124	Switch ports in Trunk mode do not pass vlan traffic after power loss
CSCwh02371	CCM ID 53 - WR8, LTS18, LTS21

Resolved bugs in FXOS 2.12.1.72

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.12.1.72:

Caveat ID Number	Description
CSCvx69675	FXOS Major Faults about adapter host and virtual interface being down.
CSCwf99303	Management UI presents self-signed certificate rather than custom CA signed one after upgrade.
CSCwi60249	WM1010E standby fails to re-join HA with msg "CD App Sync error is SSP Config Generation Failure".
CSCwi22296	Logical app will trigger a boot in failsafe mode due to a large configuration.
CSCwi13134	Hardware bypass not working as expected in FP3140.
CSCwi34600	SSH key-based login is not working in ASAv loaded with default configuration on GCP.
CSCwi62683	Upgrade to CiscoSSH 1.13.46 in FXOS address CVE-2023-48795.
CSCwi10927	TPK/kp/WM: unable to copy techsupport/ts/core files to the server.
CSCwfl1877	TPK 3110 - Firmware version MISMATCH after upgrade to 7.2.4-144.
CSCwe93736	ASA not updating Timezone despite taking commands.
CSCwi80465	CCM ID 63 - LTS18
CSCwh53276	Upgrade to CiscoSSL 1.1.1v.7.3.338-fips in SSP MIO.
CSCwi90399	FTD/ASA system clock resets to year 2023.
CSCwf62228	Timezone not working correctly on 9300/4100 platforms

Related Documentation

For additional information on the Firepower 9300 or 4100 series security appliance and FXOS, see [Navigating the Cisco FXOS Documentation](#).

Online Resources

Cisco provides online resources to download documentation, software, and tools, to query bugs, and to open service requests. Use these resources to install and configure FXOS software and to troubleshoot and resolve technical issues.

- Cisco Support & Download site: <https://www.cisco.com/c/en/us/support/index.html>
- Cisco Bug Search Tool: <https://tools.cisco.com/bugsearch/>
- Cisco Notification Service: <https://www.cisco.com/cisco/support/notifications.html>

Access to most tools on the Cisco Support & Download site requires a Cisco.com user ID and password.

Contact Cisco

If you cannot resolve an issue using the online resources listed above, contact Cisco TAC:

- Email Cisco TAC: tac@cisco.com
- Call Cisco TAC (North America): 1.408.526.7209 or 1.800.553.2447
- Call Cisco TAC (worldwide): [Cisco Worldwide Support Contacts](#)

Communications, Services, and Additional Information

- To receive timely, relevant information from Cisco, sign up at [Cisco Profile Manager](#).
- To get the business impact you're looking for with the technologies that matter, visit [Cisco Services](#).
- To submit a service request, visit [Cisco Support](#).
- To discover and browse secure, validated enterprise-class apps, products, solutions and services, visit [Cisco Marketplace](#).
- To obtain general networking, training, and certification titles, visit [Cisco Press](#).
- To find warranty information for a specific product or product family, access [Cisco Warranty Finder](#).