Cisco Firepower 4100/9300 FXOS Release Notes, 2.2(2)

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Cisco Firepower 4100/9300 FXOS Release Notes, 2.2(2)

This document contains release information for Cisco Firepower eXtensible Operating System (FXOS) 2.2(2).

Use this release note 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.
- Firepower 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 2.2.2.137

Cisco FXOS 2.2.2.137 introduces the following new features in addition to the features included in earlier releases:

- Fixes for various problems (see Resolved Bugs in FXOS 2.2.2.137, on page 7).

New Features in FXOS 2.2.2.101

Cisco FXOS 2.2.2.101 introduces the following new features in addition to the features included in earlier releases:

- Fixes for various problems (see Resolved Bugs in FXOS 2.2.2.101, on page 8).

New Features in FXOS 2.2.2.97

Cisco FXOS 2.2.2.97 introduces the following new features in addition to the features included in earlier releases:

- Fixes for various problems (see Resolved Bugs in FXOS 2.2.2.97, on page 9).

New Features in FXOS 2.2.2.91

Cisco FXOS 2.2.2.91 introduces the following new features in addition to the features included in earlier releases:

- Fixes for various problems (see Resolved Bugs in FXOS 2.2.2.91, on page 9).

New Features in FXOS 2.2.2.86

Cisco FXOS 2.2.2.86 introduces the following new features in addition to the features included in earlier releases:

- Fixes for various problems (see Resolved Bugs in FXOS 2.2.2.86, on page 9).

New Features in FXOS 2.2.2.83

Cisco FXOS 2.2.2.83 introduces the following new features in addition to the features included in earlier releases:

- Fixes for various problems (see Resolved Bugs in FXOS 2.2.2.83, on page 10).

New Features in FXOS 2.2.2.71

Cisco FXOS 2.2.2.71 introduces the following new features in addition to the features included in earlier releases:

- Fixes for various problems (see Resolved Bugs in FXOS 2.2.2.71, on page 10).

New Features in FXOS 2.2.2.60

Cisco FXOS 2.2.2.60 introduces the following new features in addition to the features included in earlier releases:

- Fixes for various problems (see Resolved Bugs in FXOS 2.2.2.60, on page 11).

New Features in FXOS 2.2.2.54

Cisco FXOS 2.2.2.54 introduces the following new features in addition to the features included in earlier releases:

- Fixes for various problems (see Resolved Bugs in FXOS 2.2.2.54, on page 11).

New Features in FXOS 2.2.2.28

Cisco FXOS 2.2.2.28 introduces the following new features in addition to the features included in earlier releases:

- Fixes for various problems (see Resolved Bugs in FXOS 2.2.2.28, on page 12).

New Features in FXOS 2.2.2.26

Cisco FXOS 2.2.2.26 introduces the following new features in addition to the features included in earlier releases:

- Fixes for various problems (see Resolved Bugs in FXOS 2.2.2.26, on page 13).

New Features in FXOS 2.2.2.24

Cisco FXOS 2.2.2.24 introduces the following new features in addition to the features included in earlier releases:

- Fixes for various problems (see Resolved Bugs in FXOS 2.2.2.24, on page 13).

New Features in FXOS 2.2.2.19

Cisco FXOS 2.2.2.19 introduces the following new features in addition to the features included in earlier releases:

- Fixes for various problems (see Resolved Bugs in FXOS 2.2.2.19, on page 14).

New Features in FXOS 2.2.2.17

Cisco FXOS 2.2.2.17 introduces the following new features:

- Support for FTD 6.2.2.
- Support for ASA 9.8(2).
- Fixes for various problems (see Resolved Bugs in FXOS 2.2.2.17, on page 14).

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

- When you configure Radware DefensePro (vDP) in a service chain on a currently running Firepower Threat Defense application on a Firepower 4110 or 4120 device, the installation fails with a fault alarm. As a workaround, stop the Firepower Threat Defense application instance before installing the Radware DefensePro application. Note that this issue and workaround apply to all supported releases of Radware DefensePro service chaining with Firepower 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.

Adapter Bootloader Upgrade

FXOS 2.2(2) contains additional testing to verify the security module adapters on your security appliance. After installing FXOS 2.2.2.17 or later, you might receive the following critical fault on your security appliance indicating that you should update the firmware for your security module adapter:

Critical F1715 2017-05-11T11:43:33.121 339561 Adapter 1 on Security Module 1 requires a critical firmware upgrade. Please see Adapter Bootloader Upgrade instructions in the FXOS Release Notes posted with this release.

If you receive the above message, use the following procedure to update the boot image for your adapter:

1. Connect to the FXOS CLI on your Firepower security appliance. For instructions, see the "Accessing the FXOS CLI" topic in the *Cisco FXOS CLI Configuration Guide* or the *Cisco FXOS Firepower Chassis Manager Configuration Guide* (see Related Documentation).
2. Enter the adapter mode for the adapter whose boot image you are updating:

   fxos-chassis# **scope adapter 1/***security_module_number/adapter_number*
3. Enter **show image** to view the available adapter images and to verify that fxos-m83-8p40-cruzboot.4.0.1.62.bin is available to be installed:

```
fxos-chassis /chassis/server/adapter # show image
Name Type Version

------------------------------------------- -------------------- -------

fxos-m83-8p40-cruzboot.4.0.1.62.bin Adapter Boot 4.0(1.62)

fxos-m83-8p40-vic.4.0.1.51.gbin Adapter 4.0(1.51)
```

4. Enter **update boot-loader** to update the adapter boot image to version 4.0.1.62:

```
fxos-chassis /chassis/server/adapter # update boot-loader 4.0(1.62)
Warning: Please DO NOT reboot blade or chassis during upgrade, otherwise, it may cause
adapter to become UNUSABLE!
After upgrade has completed, blade will be power cycled automatically
fxos-chassis /chassis/server/adapter* # commit-buffer
```

5. Enter **show boot-update status** to monitor the update status:

```
fxos-chassis /chassis/server/adapter # show boot-update status
State: Updating
fxos-chassis /chassis/server/adapter # show boot-update status
State: Ready
```

6. Enter **show version detail** to verify that the update was successful:

Note Your **show version detail** output might differ from the following example. However, verify that Bootloader-Update-Status is "Ready" and that Bootloader-Vers is 4.0(1.62).

```
fxos-chassis /chassis/server/adapter # show version detail
Adapter 1:
Running-Vers: 5.2(1.2)
Package-Vers: 2.2(2.17)
Update-Status: Ready
Activate-Status: Ready
Bootloader-Update-Status: Ready
Startup-Vers: 5.2(1.2)
Backup-Vers: 5.0(1.2)
Bootloader-Vers: 4.0(1.62)
```

System Requirements

You can access the Firepower 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 2.2(2) using Mozilla Firefox version 42, Google Chrome version 47, and Internet Explorer version 11. We anticipate that future versions of these browsers will also work. However, if you experience any browser-related issues, we suggest you revert to one of the tested versions.

Upgrade Instructions

For complete information on how to upgrade FXOS on your Firepower 4100/9300 device, see the Cisco Firepower 4100/9300 Upgrade Guide.

Note 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 register for an account.

For more information about the Cisco Bug Search Tool, see the Bug Search Tool Help & FAQ.

Open Bugs

The following table lists the open bugs affecting FXOS 2.2.2.

Table 1: Open Bugs Affecting FXOS 2.2(2)

Identifier	Description
CSCus73654	ASA do not mark management-only for the mgmt interface assign by LD
CSCuu33739	Physical interface speeds in port-channel are incorrect
CSCuu50615	Onbox Chassis Manager: Unsupported timezones listed on Onbox
CSCuw31077	Filter applied to a interface should be validated
CSCuw81066	Error should be thrown while enabling a session above the disk space
CSCux37821	Platform settings auth the order field shows only lowest-available
CSCux63101	All memory(s) under Memory array shows as unknown in operable column
CSCux76704	Mysterious “>>” box under logical device save box with no pull-down info
CSCux77947	Pcap file size not updated properly when data sent at high rate
CSCux98517	Un-decorating data port for VDP should be allowed from Chassis Manager
CSCuy21573	Chassis Manager: Sorting Broken in Updates Page
CSCuy31784	Images are not listed after a delete when filter is used
CSCuy98317	Unable to soft dissociate intf from LD, if LD name has -
CSCuz93180	AAA LDAP configuration does not preserve information if validation fails
CSCva86452	link flap on switch connected to 10G and 40G SR FTW card on power off
CSCvb65011	EntityPhysical MIB has the Sup serial number for the chassis
CSCvc03494	Radware vDP cannot be added into APSolute Vision. As a workaround, you must manually download the device driver and install it into Vision.
CSCvc14775	App-instance stuck at Not Responding if downgraded from FXOS 2.0.1.86 + ASA 9.6.2 to FXOS 1.1.4.140
CSCvc16980	For CSP image integrity, the Validation State for the FXOS images should be shown as “None” initially

Identifier	Description
CSCvc44522	Log Capacity on Management controller Server1/1 is very low Warning
CSCvd48719	FTD logical device not allowing user to provide FMC hostname instead of ip
CSCvd90177	Blade went to fault state after doing a MIO reload on QP-D with FXOS 2.2.1.57

Resolved Bugs in FXOS 2.2.2.149

The following table lists the previously release-noted and customer-found defects that were resolved in FXOS 2.2.2.149:

Table 2: Resolved Bugs in FXOS 2.2.2.149

Identifier	Description
CSCvx73164	Lasso SAML Implementation Vulnerability Affecting Cisco Products: June 2021

Resolved Bugs in FXOS 2.2.2.148

The following table lists the previously release-noted and customer-found defects that were resolved in FXOS 2.2.2.148:

Table 3: Resolved Bugs in FXOS 2.2.2.148

Identifier	Description
CSCvv96092	Cisco FXOS and NX-OS Software UDLD DoS and Arbitrary Code Execution Vulnerability
CSCvw38984	Cisco FXOS and NX-OS Software UDLD DoS and Arbitrary Code Execution Vulnerability
CSCvx13861	QuoVadis root CA decommission on Firepower 9300/4100 Supervisor
CSCvx88998	\"System does not allow more than 16 TPs\" on 2.3.1.213
CSCvy17306	MIO SSD firmware upgrade failed for 2.2(2.147) release and device went in reboot loop
CSCvg35033	Graceful shut down does not work on chassis where blade is removed and not acknowledged
CSCvo14325	Make sure MIO reboot in case of firmware upgrade is graceful
CSCvv96092	Cisco FXOS and NX-OS Software UDLD DoS and Arbitrary Code Execution Vulnerability
CSCvx90804	MIO SSD upgraded to wrong firmware version
CSCvv05277	Need to support firmware upgrade for SSD in FXOS

Resolved Bugs in FXOS 2.2.2.137

The following table lists the previously release-noted and customer-found defects that were resolved in FXOS 2.2.2.137:

Table 4: Resolved Bugs in FXOS 2.2.2.137

Identifier	Description
CSCvf70494	Suprise removal/reinsert of EPM or delete/create of PO might cause traffic to fail
CSCvg76125	FXOS is increasing LACP "sent" counters when PortChannel is not attached to a logical device
CSCvh29811	FCM: Fault is throwing error "retry later" while acknowledge
CSCvi48404	Firepower Chassis Reloads due to License Manager
CSCvn77125	FXOS: copy command should allow for wildcards to transfer multiple files
CSCvn99658	FXOS lacp related logs pktmgr.out and lacp.out grows too large
CSCvp35769	[ciam] Apache HTTP Server URL Normalization Denial of Service Vulnerability
CSCvp56004	Firepower 41xx - LLDP is disabled on back plane port
CSCvq17910	Multicast MAC not programmed on chassis upon app reboot or cluster rejoin
CSCvq19641	Evaluation of Firepower 4k/9k Supervisor for TCP_SACK
CSCvr24920	FPR-4110: FXOS CLI crash in feature-mgr process
CSCvr37151	Cisco FXOS and NX-OS CDP Arbitrary Code Execution and DoS Vulnerability
CSCvr40573	FPR-4100: FXOS CLI crash with fwm hap reset
CSCvs39368	DME process crash due to memory leak on Firepower 4100/9300

Resolved Bugs in FXOS 2.2.2.101

The following table lists the previously release-noted and customer-found defects that were resolved in FXOS 2.2.2.101:

Table 5: Resolved Bugs in FXOS 2.2.2.101

Identifier	Description
CSCvn36413	upgrade-recovery corner case for specific versioning format/naming
CSCvo44171	Firepower version 2.2.2.86 reloads due to License Manager with abnormal auth renewal each 30 sec
CSCvo64091	SSP:Cluster Slave FTD Provisioning failing because "Required external ports not available"
CSCvo75349	FXOS Blade CRUZ FW coredump due to a memory corruption
CSCvo93924	FTD may not become online after installing vDP
CSCvp15176	Apps installed on firepower devices may report comm failure and assume itself as active/master.
CSCvp21561	Cruz Adaptor crash due to kernel patch incompatible with cruz kernel version
CSCvp40260	Prevent STP and FC frames from being sent to SUP CPU

Resolved Bugs in FXOS 2.2.2.97

The following table lists the previously release-noted and customer-found defects that were resolved in FXOS 2.2.2.97:

Table 6: Resolved Bugs in FXOS 2.2.2.97

Identifier	Description
CSCvk26936	Graceful shutdown is not working as expected
CSCvn46577	Some SSH sessions to FXOS are not timed out by absolute/session timeout
CSCvn64163	ASA's fail to reboot after power cycle if disk is FSCK'd
CSCvn77641	SSP fail to wire ports cannot recover
CSCvn78014	Graceful shutdown is not working on data port.
CSCvn78653	Upgrading the FXOS from 2.3.1.73 to 2.4.1.214, FXOS shows a warnning about incompatibility
CSCvn90677	During FTD install, setting the disk partition size can silently fail
CSCvn90701	Errors that occur during FTD install are not logged
CSCvo08432	Logs are not being compressed currently leading to very large log files and disk space consumption
CSCvo28623	ssp_admin_status.sh detects left over metadata json file after failed upgrade
CSCvo28634	MIO reports incorrect status to the app-instance
CSCvo56243	FPR9300: 100G port-channel bandwidth does not propagate correctly from FXOS to ASA in release 222

Resolved Bugs in FXOS 2.2.2.91

The following table lists the previously release-noted and customer-found defects that were resolved in FXOS 2.2.2.91:

Table 7: Resolved Bugs in FXOS 2.2.2.91

Identifier	Description
CSCvn17833 / CSCvj98499	Linux Kernel cdrom_ioctl_media_changed Function Kernel Memory Read Vul

Resolved Bugs in FXOS 2.2.2.86

The following table lists the previously release-noted and customer-found defects that were resolved in FXOS 2.2.2.86:

Table 8: Resolved Bugs in FXOS 2.2.2.86

Identifier	Description
CSCvf97337	Chassis manger show configuration button broken
CSCvm73853	Firepower Chassis Reloads on License Manager running in FXOS 2.2.2.26

Identifier	Description
CSCvn23221	Cruz ASIC crash due to ecpumgr assertion panic

Resolved Bugs in FXOS 2.2.2.83

The following table lists the previously release-noted and customer-found defects that were resolved in FXOS 2.2.2.83:

Table 9: Resolved Bugs in FXOS 2.2.2.83

Identifier	Description
CSCvi87967	Radius/TACACS shared key should not be enforced to a minimum of characters.
CSCvj54937	FCM GUI, NTP status Unreachable/Invalid when using NTP domain which resolves to multiple IP.
CSCvj77506	FXOS: Interface counters might report incorrect values for packets,bytes and rates
CSCvj85155	Pre-login banner gets deleted on 4100 and 9300 Chassis Manager
CSCvj87632	chassis memory leak while handling bad xml content (SMA sent bad xml format to serviceOrchAG)
CSCvk25776	Prevent situations like failover split brain and shutdown blade completely if one Cruz fails
CSCvk42561	BEMS841608 : MIO crash when packet capture is started from FCM.
CSCvk48580	FXOS : Disable LLDP
CSCvk76146	Few devices /ngfw partition on 41xx shows 39GB whereas other shows 100 GB
CSCvm81014	FP9300/FP4100 Smart Licensing - Unable to register FXOS devices Smart Licensing

Resolved Bugs in FXOS 2.2.2.71

The following table lists the previously release-noted and customer-found defects that were resolved in FXOS 2.2.2.71:

Table 10: Resolved Bugs in FXOS 2.2.2.71

Identifier	Description
CSCvf81997	QP backplane went down after repeating cluster bundle/de-bundle
CSCvg49225	Canceling scheduled FXOS upgrade does not clear the event
CSCvg72175	SNMP trap hosts defined by hostname aren't propagated to FXOS configuration
CSCvg75738	JPC 10G 7m active copper cable failed to establish link on 10G EPM port after chassis was rebooted
CSCvh66227	QP: After disk failure, ASA leaves and rejoins cluster repeatedly
CSCvi47523	SSP-NTP: ssp-ntp script monitoring script enhancements for XRU, KP
CSCvi58843	Increase system resiliency when sam.config is not accessible
CSCvi80806	FP9300 unexpected reload due to service \"lldp\" hap failure

Identifier	Description
CSCvj06273	IN ASA-CI DME core files are seen after downgrading from 92.4.1.2721 to 2.0.1.199 Fxos
CSCvj07879	Firepower (FP) 9300 Chassis goes into unstable state when issued a \"shutdown\" from the GUI
CSCvj09999	SNMPv3 polling from certain NMS doesn't work with privacy enabled for the snmpv3 user
CSCvj66002	devcmd error messages are shown in the logs
CSCvk19056	Cruz adapter kernel panic at sock_poll
CSCvk25751	Cruz mcp crash with dcem-linkstats command
CSCvk25762	Cruz adapter doesn't recover after the crash
CSCvk27410	cruz kernel corefiles lost after transferred to MIO

Resolved Bugs in FXOS 2.2.2.60

The following table lists the previously release-noted and customer-found defects that were resolved in FXOS 2.2.2.60:

Table 11: Resolved Bugs in FXOS 2.2.2.60

Identifier	Description
CSCvg03807	Apache HTTP Server Options Request Processing Information Disclosure Vulnerability
CSCvi61729	Error writing nvram:/startup-config (No space left on device)
CSCvi93470	FXOS brings up port-channel prior to logical device
CSCvj07877	syslog messages logfile is not rotated properly

Resolved Bugs in FXOS 2.2.2.54

The following table lists the previously release-noted and customer-found defects that were resolved in FXOS 2.2.2.54:

Table 12: Resolved Bugs in FXOS 2.2.2.54

Identifier	Description
CSCvf18549	Need to port parent fix CSCvc53424 to SSP
CSCvg24820	ASA app-instance running 9.6.1 is disabled when upgrading from 2.0(1.37) to 2.0(1.149)
CSCvg72259	Disabling and re-enabling SNMP via GUI wipes out all the users auth and privacy hashes from FXOS CLI
CSCvg72324	Creating users while SNMP is disabled is allowed and ends in misbehaviors once enabled via GUI
CSCvh21120	Clustering configuration on the chassis is missing or incomplete; clustering is disable
CSCvh31289	App-instance in NOT_INSTALLED state is allowed to be deleted when logical device is present for it.

Identifier	Description
CSCvh51597	Option to include domain name / FQDN in system name when queried by SNMP
CSCvh52142	Do not block users' change on FTD's startup version
CSCvh60428	FXOS upgrade from 2.2.1.66 to 2.2.2 or 2.3.1 hangs at fabric-interconnect Failed until reboot.
CSCvh71878	aaaRole operation priv occasionally sees 'operations' causing import to fail
CSCvh75946	App-instance should be enabled if it was mistakenly disabled by blacklist in old bundle
CSCvh91287	Adjust minimum fan PWM on thermal policy
CSCvh96609	BGP peering flaps during cluster upgrade
CSCvi05189	FPR4100/9300:Adapter uplink interface on security module showing link state unavailable

Resolved Bugs in FXOS 2.2.2.28

The following table lists the previously release-noted and customer-found defects that were resolved in FXOS 2.2.2.28:

Table 13: Resolved Bugs in FXOS 2.2.2.28

Identifier	Description
CSCve93880	Cisco FX-OS and NX-OS System Software CLI Command Injection Vulnerability
CSCvf60078	Cisco UCS Mngr, Cisco Firepower 4100 Series NGFW, & Cisco Firepower 9300 Series Devices Cmd Inj Vuln
CSCvg22203	Evaluation of pix-asa for Dnsmasq October 2017 vulnerabilities
CSCvg59491	Etherchannel between FXOS chassis may get stuck in \"Suspended\" state after reloading simultaneously
CSCvg87702	Unable to copy images using scp from switch boot
CSCuw44001	Address CIAM CVE-2015-5621 in Net-SNMP Master Agent
CSCve17075	Include /dev/mtd0 in fprm detail tech-support
CSCvf79289	FCM Export Configuration doesn't download XML file on IE11
CSCvg02469	Prevent potential Assertion core for empty CRL filename
CSCvg07539	New QP Intel SSD was not displayed properly
CSCvg15516	Evaluate Red Hat Linux CVE-2017-1000253 Vulnerability
CSCvg15519	Evaluate Red Hat Linux CVE-2017-1000253 Vulnerability
CSCvg72204	SNMPv3 users created for noauth aren't present in FXOS CLI config, only at scope monitoring and GUI
CSCvg12566	Inconsistent reporting on Management Interface for SNMP Queries
CSCvg87518	Ethanalyzer command on FX-OS prompts for password when tacacs authentication is enabled
CSCvg29876	FXOS: Change FSM:FAILED fault severity from Critical to Info

Resolved Bugs in FXOS 2.2.2.26

The following table lists the previously release-noted and customer-found defects that were resolved in FXOS 2.2.2.26:

Table 14: Resolved Bugs in FXOS 2.2.2.26

Identifier	Description
CSCvg03555	When multiple NTP servers are configured, NTP status becomes unreachable/invalid
CSCvg81822	FXOS NTP Client chooses IPv4 over Ipv6 when Dual Stack Server Resolution is returned
CSCvg81882	Utilizing FQDN for IPv6 NTP Server causes false "Unreachable or Invalid" state

Resolved Bugs in FXOS 2.2.2.24

The following table lists the previously release-noted and customer-found defects that were resolved in FXOS 2.2.2.24:

Table 15: Resolved Bugs in FXOS 2.2.2.24

Identifier	Description
CSCvd27726	FPR4100 Chassis Manager and CLI still shows the presence of SSD even after removal
CSCvd63389	FXOS may show thermal condition due to loss of connectivity with blade
CSCve03660	Cisco FXOS and NX-OS Authentication, Authorization, and Accounting Denial of Service Vulnerability
CSCve85027	QP-A-STS 92.3.1.2119 failed to downgrade baseline - 'Oper State: In Progress' in 'show detail' o/p
CSCve97137	Apache HTTP Server ap_get_basic_auth_pw() Authentication Bypass Vulnerability
CSCvf60220	Mgmt interface nameif “Diagnostic” getting removed after swapping mgmt interface from LD
CSCvf71673	FP2100 Bandwidth values wrong for port-channel interface
CSCvf91479	Sumitomo 100G LR4 QSFP crashed during EDVT cold corner boot cycle
CSCvf95185	FXOS - Unable to clear SSH host key in local-mgmt CLI
CSCvg00589	FPR4100/9300: FTW feature failing when MIO shuts down/rebooted causing packet loss.
CSCvg18454	MIO does not boot from rommon during recovery process
CSCvg19034	FP9300 unexpected reload due to service "pfma" hap
CSCvg25443	FTD App Instance goes unresponsive after NTP synchronisation completes on FXOS
CSCvg27182	Evaluation of FXOS for Apache/Struts related vulnerabilities
CSCvg34848	NTP Server information not loading when using FQDN for ipv6
CSCvg40142	ASA Inter-cluster slave blades fail to come online after downgrade CSP from 9.7.1.4 to 9.6.3.1
CSCvg43424	App-Instance failed to install on BS module 1 FXOS 2.2.2.20, ASA 9.8.2.8
CSCvg54622	KP-HA:Secondary shows as “Unknown” and Deployment fails after that.

Resolved Bugs in FXOS 2.2.2.19

The following table lists the previously release-noted and customer-found defects that were resolved in FXOS 2.2.2.19:

Table 16: Resolved Bugs in FXOS 2.2.2.19

Identifier	Description
CSCvd06442	Deleting SNMPv3 user should be rejected
CSCvd25253	Bootup MIO with ASA running but FTW pairs in bypass mode
CSCvd70434	Validation error in chassis manager when assigning data int to logical device that was a mgmt int
CSCve07152	CRL must be signed by certificate containing cRLSign key usage
CSCve26753	Upon logging into FP with different user other than admin, some show CLI commands fail
CSCve56216	SNMP sysDescr missing software type and version
CSCve70132	Watford and Harlesden showing deprecated OIDs in BS/QP
CSCve97422	Remote Error Code is not correct for Signature Validation failure
CSCvf02982	xml file import failure occur when between Port-channel and ASA or FTD are associated.
CSCvf20973	40G LOROM 4M copper cable displayed as "QSFP 40G CR4" in show inventory expand detail
CSCvf31037	ipmi is not supported for KP
CSCvf36828	Service manager should support deleting mgmt. port link and re-creating it in a single transaction.
CSCvf46372	Evaluation for the vulnerabilities CVE-2017-1000364 and CVE-2017-1000366
CSCvf46869	System crash with snm hap reset
CSCvf54485	FXOS: FTW 1G EPM packets with frame size greater than 1554 is getting dropped.
CSCvf65919	FP9300 chassis running fxos 2.1.1.73 reloaded due to license manager service.
CSCvf68274	FP2100 warning message displayed when upgrading ASA bundle is incorrect
CSCvf70505	FPR Chassis manager continues contacting previous TACACS server configured after it is deleted.
CSCvf72423	CSP image download fails while trying via FTP
CSCvf73138	SL: Port smart agent fix for smart agent race condition issue
CSCvf95068	Upgrade to ASA might have a mismatch version after reboot

Resolved Bugs in FXOS 2.2.2.17

The following table lists the previously release-noted and customer-found defects that were resolved in FXOS 2.2.2.17:

Table 17: Resolved Bugs in FXOS 2.2.2.17

Identifier	Description
CSCvd32155	FPR Network Modules returning the wrong vendorequipmenttype
CSCvd35471	App stuck in “Installing” after MIO reboot due to time is set back for 7hr
CSCvd58911	Chassis reboots while copying large (5GB) files to /bootflash
CSCvd66066	FXOS inconsistent behaviour when setting the hostname
CSCvd75663	Help files not loading when we click on ? mark
CSCvd88338	Switch configuration failed - Error: unknown - delete Ipmc ipmc-group 5
CSCvd89895	FP4100 FXOS 2.1.1.73 ecmp-groups to "del" state intermittently after link shut/unshut
CSCvd91049	Image loading taking more time when downgrading
CSCvd98034	Seeing error message in the output for STS ethanalyzer testcase in clapton image 92.2.1.2016
CSCve02820	Damaged EPM resistor causes chassis reboot after SFP/QSFP OIR
CSCve14981	FPR4100: insufficient max memory for appAG
CSCve16011	ASA Install Failed with Error message "CSP reached max-app-limit -Install Rejected"
CSCve34729	ASA interfaces may stop passing traffic after ASA reload with FIPS mode enabled
CSCve40222	FCM: SSH encryption and mac algorithms change in Debden
CSCve58269	NTP: change v2 to v3
CSCve58356	HA isn't working after the initial KP ASA image installation
CSCve95234	Unable to collect blade logs. Support send_diag_archive' command failed
CSCvf07255	Application is not coming up after powering the chassis "off" and then "on"
CSCvf12326	Failed Auth renewal causing Smart License to deregister unexpectedly
CSCvf14733	NTP server status does not show correctly for IPv6
CSCvf35263	Port Manager Debug File portmgr.out contains incomplete Timestamps

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://bst.cloudapps.cisco.com/bugsearch/search
- 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.

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