Cisco Firepower 4100/9300 FXOS Release Notes, 2.6(1)

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Cisco Firepower 4100/9300 FXOS Release Notes, 2.6(1)

This document contains release information for Cisco Firepower eXtensible Operating System (FXOS) 2.6(1).

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 2.6.1.272

- Fixes for various problems (see Resolved Bugs in FXOS 2.6.1.272, on page 8).

New Features in FXOS 2.6.1.265

- Fixes for various problems (see Resolved Bugs in FXOS 2.6.1.265, on page 9).

New Features in FXOS 2.6.1.264

- Fixes for various problems (see Resolved Bugs in FXOS 2.6.1.264).

New Features in FXOS 2.6.1.259

- Fixes for various problems (see Resolved Bugs in FXOS 2.6.1.259).

New Features in FXOS 2.6.1.254

- Fixes for various problems (see Resolved Bugs in FXOS 2.6.1.254).

New Features in FXOS 2.6.1.239

- Fixes for various problems (see Resolved Bugs in FXOS 2.6.1.239).

New Features in FXOS 2.6.1.238

- Fixes for various problems (see Resolved Bugs in FXOS 2.6.1.238).

New Features in FXOS 2.6.1.230

- Fixes for various problems (see Resolved Bugs in FXOS 2.6.1.230).

New Features in FXOS 2.6.1.229

- Fixes for various problems (see Resolved Bugs in FXOS 2.6.1.229).

New Features in FXOS 2.6.1.224

- Fixes for various problems (see Resolved Bugs in FXOS 2.6.1.224).

New Features in FXOS 2.6.1.214

- Fixes for various problems (see Resolved Bugs in FXOS 2.6.1.214, on page 14).

New Features in FXOS 2.6.1.204

- Fixes for various problems (see Resolved Bugs in FXOS 2.6.1.204, on page 15).

New Features in FXOS 2.6.1.192

- Fixes for various problems (see Resolved Bugs in FXOS 2.6.1.192, on page 15).

New Features in FXOS 2.6.1.187

- Fixes for various problems (see Resolved Bugs in FXOS 2.6.1.187, on page 16).

New Features in FXOS 2.6.1.174

- Fixes for various problems (see Resolved Bugs in FXOS 2.6.1.174, on page 17).

New Features in FXOS 2.6.1.169

- Fixes for various problems (see Resolved Bugs in FXOS 2.6.1.169, on page 17).

New Features in FXOS 2.6.1.166

- Fixes for various problems (see Resolved Bugs in FXOS 2.6.1.166, on page 17).

New Features in FXOS 2.6.1.157

Cisco FXOS 2.6.1.157 introduces the following new features:

- Support for Firepower Threat Defense 6.4.0.
- Support for 56-physical core security module SM-56.
- You can now deploy ASA and FTD logical devices on the same Firepower 9300.



Note Requires ASA 9.12(1) and Firepower 6.4.0.

- You can now enable TLS/SSL hardware acceleration for one container instance on a module/security engine. TLS/SSL hardware acceleration is disabled for other container instances, but enabled for native instances. See the Firepower Management Center configuration guide for more information.
- New/modified commands: **config hwCrypto enable, show hwCrypto**
- Fixes for various problems (see Resolved Bugs in FXOS 2.6.1.157, on page 18).

New Features in FXOS 2.6.1.131

Cisco FXOS 2.6.1.131 introduces the following new features:

- Support for ASA 9.12(1).
- Support for Radware DefensePro 8.13.01.09-3.
- Support for Firepower 4115, 4125, and 4145 security appliances.
- Support for 40 and 48-physical core security modules SM-40 and SM-48.
- You can now install a mix of different security module types on the same Firepower 9300. Support for this feature requires ASA 9.12(1) or later.

Note To use clustering with your Firepower 9300, all security modules installed on the chassis must be of the same type.

- For the FTD bootstrap configuration, you can now set the NAT ID for the FMC in the Firepower Chassis Manager. Previously, you could only set the NAT ID within the FXOS CLI or FTD CLI. Normally, you need both IP addresses (along with a registration key) for both routing purposes and for authentication—the FMC specifies the device IP address, and the device specifies the FMC IP address. However, if you only know one of the IP addresses, which is the minimum requirement for routing purposes, then you must also specify a unique NAT ID on both sides of the connection to establish trust for the initial communication and to look up the correct registration key. The FMC and device use the registration key and NAT ID (instead of IP addresses) to authenticate and authorize for initial registration.

  New/modified screens:

  Logical Devices > Add Device > Settings > Firepower Management Center NAT ID field

- You can now configure the key used for encrypting sensitive data during configuration export. You must set the encryption key before you can export a configuration. Make sure that the same encryption key is set on the system when importing that configuration.
- You can now generate and download technical support log files from Firepower Chassis Manager.
- You now have the option to enable or disable LLDP.
- You can now use a new Low Touch Provisioning method to perform first time setup over the Management port.
- Fixes for various problems (see Resolved Bugs in FXOS 2.6.1.131, on page 19).

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.

- When upgrading 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* (http://www.cisco.com/go/firepower9300-install) or *Cisco Firepower 4100 Series Hardware Installation Guide* (http://www.cisco.com/go/firepower4100-install), the fault(s) will be cleared automatically and no additional action is required.

Adapter Bootloader Upgrade

FXOS 2.6(1) contains additional testing to verify the security module adapters on your security appliance. After installing FXOS 2.4.1.101 or later, you might receive a critical fault similar to the following 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 Firepower 4100/9300 FXOS CLI Configuration Guide, 2.6(1) or Cisco Firepower 4100/9300 FXOS Firepower Chassis Manager Configuration Guide, 2.6(1).
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 2.3(1) 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

You can upgrade your Firepower 9300 or Firepower 4100 series security appliance to FXOS 2.6(1.157) if it is currently running any FXOS 2.0(1) or later build.

For upgrade instructions, see the Cisco Firepower 4100/9300 Upgrade Guide.

Installation Notes

- An upgrade to FXOS 2.6(1) can take up to 45 minutes. Please 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 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 select bugs open at the time of this Release Note publication:

Table 1: Open Bugs Affecting FXOS 2.6(1)

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
CSCuw31077	Filter applied to a interface should be validated
CSCux37821	Platform settings auth the order field shows only lowest-available
CSCux63101	All memory(s) under Memory array shows as unknown in operable column
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
CSCuz93180	AAA LDAP configuration does not preserve information if validation fails
CSCvc03494	Radware vDP cannot be added into APSolute Vision. As a workaround, you must manually download the device driver and install it into Vision.
CSCvc44522	Log Capacity on Management controller Server1/1 is very low Warning
CSCvd90177	Security Module went to fault state after reloading Supervisor on 4150 with FXOS 2.2.1.57
CSCvg68299	FXOS chassis manager interface gets disassociated from FTD after a failover
CSCvi71367	Supervisor crashed after reboot--unable to handle kernel NULL pointer dereference
CSCvk26697	bcm_usd_log core files detected with 92.4.1.2889 image

Identifier	Description
CSCvk72915	Security Module stuck in Rommon inconsistently after reboot
CSCvm66013	Supervisor unresponsive during reboot. Kernel Panic issue seen.
CSCvm84592	Filter configs are lost when “Edit Session” is done for a capture session
CSCvm86523	6th node will not ssp3ru cluster 6.3.0-1592
CSCvn42252	Low-touch provisioning debug command mode prompt not working properly
CSCvn57429	Ftd app-instance is stuck in install failed with INSTALL_ERROR. Application internal script Error.
CSCvo03589	App agent heart beat can miss in MI scenario
CSCvo30356	Port-channels are in suspended state after upgrade
CSCvo40078	incorrect uptime displayed
CSCvo55237	The global upgrade button is grayed out even though one security module is up
CSCvo55510	FXOS low-touch provisioning screen does not allow prefix
CSCvo58998	FXOS Cruz Adapter doesn't validate data sent by logical device causing dropped offloaded packets
CSCvo60117	Interface not associated to MI instance even though it shows in chassis manager as allocated
CSCvo74625	6.4.0 - IPv6 routing doesn't work for WM and KP when mgmt gateway configure as data-interfaces
CSCvo83802	Cluster node management connectivity lost after reboot
CSCvp10674	FTD may not become online after installing vDP and upgrading FXOS to version 2.4.1
CSCvp44939	ASA app stuck in installing with error 'SMA_blade_reboot_inprogress' on 2.6.1.157 + 9.12.1.111

Resolved Bugs in FXOS 2.6.1.272

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.6.1.272:

Table 2: Resolved Bugs in FXOS 2.6.1.272

Identifier	Description
CSCwi54940	CCM Seq 60 - WR8
CSCwh77747	FPRM Audit logs not generated for user log in
CSCwi96166	Unable to build 2.12.1.fcs-throtle

Identifier	Description
CSCwf77218	Fix to make pre-LTS21 builds to work on CEL8 machines
CSCwh33196	SSP MIO: Swims Token support in signing image

Resolved Bugs in FXOS 2.6.1.265

The following table lists the previously release-noted and customer-found bug that is resolved in FXOS 2.6.1.265:

Table 3: Resolved Bug in FXOS 2.6.1.265

Identifier	Description
CSCwd18015	Evaluation of ssp for NX-OS CLI command injection.

Resolved Bugs in FXOS 2.6.1.264

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.6.1.264:

Table 4: Resolved Bugs in FXOS 2.6.1.264

Identifier	Description
CSCwb46949	LTS18 commit id update in CCM layer (Seq 27)
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)
CSCwb80192	WR6 and WR8 commit id update in CCM layer (Seq 30)
CSCwc60907	WR6, WR8, LTS18 and LTS21 commit id update in CCM layer (Seq 35)

Resolved Bugs in FXOS 2.6.1.259

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.6.1.259:

Table 5: Resolved Bugs in FXOS 2.6.1.259

Identifier	Description
CSCvz61689	Port-channel member interfaces are lost and status is down after software upgrade
CSCwa49417	WR8 and LTS18 commit id update in CCM layer (sprint 126, seq 22)
CSCwb13294	WR8, LTS18 and LTS21 commit id update in CCM layer (Seq 25)
CSCwa76822	Tune throttling flow control on syslog-ng destinations
CSCwb80192	WR6, WR8 commit id update in CCM layer(Seq 30)

Identifier	Description
CSCwa46905	WM 1010 10/100Mbps full duplex setting is not getting effect
CSCwa50720	FTD/ASA stuck on "Starting" due to blade going in fault state following FTD upgrade
CSCwa71071	Update certificate bundle for 7.2 release
CSCwa72311	WR6 and WR8 commit id update in CCM layer (sprint 129, seq 23)
CSCwa90615	WR8 and LTS18 commit id update in CCM layer (seq 24)
CSCwb41361	WR8, LTS18 and LTS21 commit id update in CCM layer (seq 26)
CSCwc41590	Upgrade fail & App Instance fail to start with err "CSP_OP_ERROR. CSP signature verification error."

Resolved Bugs in FXOS 2.6.1.254

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.6.1.254:

Table 6: Resolved Bugs in FXOS 2.6.1.254

Identifier	Description
CSCvt57121	Able to login into platform page though the user account-status is inactive
CSCwa45799	High CPU on FXOS due to bcm_usd process
CSCwa55772	FPR 4100 saw an unexpected reload with reason "Reset triggered due to HA policy of Reset"
CSCvq82616	Unable to collect blade logs even when blade is online
CSCvw98315	FXOS reporting old FTD version after FTD upgrade to 6.7.0
CSCvz14640	FXOS System temporary directory usage is unexpectedly high
CSCvz48435	Disable kernel warning due to rommon failing to align initramfs memory pointer
CSCvt12757	System/Npu: Platform Version and Package version is empty in show version detail output
CSCvz91266	FXOS A crafted request uri-path can cause mod_proxy to forward the request to an origin server...
CSCwa32286	WR6, WR8 and LTS18 commit id update in CCM layer(sprint 125, seq 21)
CSCvu84127	Firepower may reboot for no apparent reason
CSCvv90988	Crashes on SMP platforms produce incomplete/corrupt tracebacks
CSCvx89827	Not able to set Bangkok time zone in FPR 2110

Identifier	Description
CSCvz72467	Cisco FXOS and NX-OS Software Cisco Discovery Protocol Service Denial of Service
CSCvt03244	Can't Generate FPRM Logs - Fails when custom user with admin priviledge tries
CSCvy68403	NTP script generates "binary operator expected" syntax error
CSCwa50720	FTD/ASA stuck on "Starting" due to blade going in fault state following FTD upgrade
CSCvw72260	ASA upgrade failed with: "CSP directory does not exist - STOP_FAILED Application_Not_Found"
CSCwa24265	FXOS changes to provide dmidecode access to container
CSCvt79984	connector log exhausted disk space
CSCvv52349	No utility to handle XFS corruption on 2100/1000 series Firepower devices
CSCvw82711	Firepower 2100 series in appliance mode: FAN speed was found "CRITICAL"
CSCvz05767	FP-1010 HA link goes down or New hosts unable to connect to the device
CSCvz15755	Core file “svc_sam_portAG” was seen with WM-1010 models FTD.
CSCvy12991	Chassis local date and time may drift back to midnight Jan 1 2015 after reboot
CSCvz94740	FXOS traceback and reload due Service "ascii-cfg" sent SIGABRT for not setting heartbeat.

Resolved Bugs in FXOS 2.6.1.239

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.6.1.239:

Table 7: Resolved Bugs in FXOS 2.6.1.239

Identifier	Description
CSCvw62255	"Link not connected" error when using WSP-Q40GLR4L transceiver and Arista switch
CSCvv36393	statsAG memory leak
CSCvt68486	FXOS: svc_sam_dcosAG process crash on FirePower 4100/9300

Resolved Bugs in FXOS 2.6.1.238

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.6.1.238:

Table 8: Resolved Bugs in FXOS 2.6.1.238

Identifier	Description
CSCvk72915	Backplane Eth1/9 link keeps DOWN until reboot the chassis

Identifier	Description
CSCvr39217	Fxos Snmp-user is not persistent after reboot
CSCvr94911	FXOS: some interface transition logs have no reason
CSCvt35134	FPR4100/9300: Packet drops during the transition of BYPASS to NON-BYPASS when device is rebooted
CSCvt54943	extra "Local Disk 3" displayed on FPR9300 (improved solution)
CSCvu03887	bad allowed_cpus in /etc/sf/arc.conf probably from cspCfg.xml
CSCvu36664	FXOS Operational State:Thermal-problem intermittently
CSCvu44697	Firepower 4100/9300 - Fail-to-wire (FTW) EPM ports link flap during show tech collection
CSCvv58480	FXOS: Voltage on DC PSU displayed with wrong values from the 'show stats'
CSCvw33536	4100/9300: Cannot associate port channel / interface to App
CSCvw48829	Timezone in "show clock" is different from which in "show run clock"
CSCvw77924	Radius Key with the ASCII character " configured on FXOS does not work after chassis reload.
CSCvw81976	ENH: Rename status BYPASS-FAIL for fail-to-wire inline pairs
CSCvx14602	Firepower memory leak in svc_sam_dcosAG
CSCvx38047	FXOS show fault warning code F4526902
CSCvx66494	Handle CIMC Watchdog reset in MIO
CSCvx76651	ENH: Prevent CCL IP addressing on the 169.254.x.x subnet on cluster creation
CSCvy59868	ENH: Include output of 'show card detail expand' and 'show card-config' in chassis show-tech
CSCvy65802	AppAgent Heartbeat enhancement
CSCvy80380	Disk utilization increasing /var/tmp in FPR4150-ASA chassis
CSCvy83657	FXOS process core pruned/deleted from system files (no validation)
CSCvy95497	Chassis SSD firmware upgrade may be prevented improperly
CSCvy98027	Application interface down whereas physical interface Up on FXOS
CSCvv07113	Download image errored in automation as download state is missing in show download-task
CSCvv35531	core svc_sam_appAG seen on 2.6.1.207
CSCvy89766	7.0.0.1-14 9300 FTD node failed to join the cluster after the upgrade

Identifier	Description
CSCvs29015	Enhancement to make link down/flap reasons from CSCvo90987 user readable
CSCvv59944	The 4k/9k SUP should reboot the blade when it is hung due to CATERR
CSCvv89821	"show hardware internal bcm-usd info driver-info" returns error
CSCvx86058	BCM SDK patch 6.5.8 - Parity error in TDM Calendar memories causes traffic drop after SER correction
CSCvy32270	Display message ???nothing to update??? if the SSD installed is not applicable for the firmware update
CSCvw65425	NTP conf updates to support 4.2.8p13 and up
CSCvp92825	show tech-support missing FTW port-pair status
CSCvu62023	FXOS does not check the total amount of available memory with a missing or failed DIMM
CSCvu47574	PortAG Core file detected while testing UUT Image 92.10.1.212
CSCvw21766	Need to include AAA logs/debugs in FPRM tar bundle

Resolved Bugs in FXOS 2.6.1.230

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.6.1.230:

Table 9: Resolved Bugs in FXOS 2.6.1.230

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

Resolved Bugs in FXOS 2.6.1.229

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.6.1.229:

Table 10: Resolved Bugs in FXOS 2.6.1.229

Identifier	Description
CSCvp69087	core_svc_sam_dme found after upgrade
CSCvu22377	An extra whitespace in cluster group name of FTD causing data unit to be kicked out.
CSCvo19431	App Mode: WM 1010 - changing speed settings causing traffic to stop permanently
CSCvx88998	\"System does not allow more than 16 TPs\" on 2.3.1.213
CSCvx90804	MIO SSD upgraded to wrong firmware version.

Identifier	Description
CSCvq97810	FTD contains expired root CA certificates
CSCvx13861	QuoVadis root CA decommission on Firepower 9300/4100 Supervisor

Resolved Bugs in FXOS 2.6.1.224

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.6.1.224:

Table 11: Resolved Bugs in FXOS 2.6.1.224

Caveat ID Number	Description
CSCvp69087	core_svc_sam_dme found after upgrade
CSCvu11868	"Link not connected" error after reboot when using QSFP-40G-LR4 transceiver on FPR9K-NM-4X40G
CSCvu22377	An extra whitespace in cluster group name of FTD causing data unit to be kicked out.
CSCvu70493	FXOS - AAA/RADIUS - NAS-IP Field set to 127.0.01
CSCvu75930	Service module not returning error to supervisor when SMA resources are depleted
CSCvu94706	FXOS dynamically learning mac-address of external machine causing outage
CSCvv66837	FXOS portAG memory leak during periodical interface polls
CSCvv85742	Upgrade : FSM status can show incorrect value after upgrade
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
CSCvx16700	FXOS clock sync issue during blade boot up due to "MIO DID NOT RESPOND TO FORCED TIME SYNC"
CSCvt18178	FP93K // 2.3.1.144 // SSH sessions not clearing. More than 32 FPRM CLI sessions are not allowed
CSCvv09373	ASA module fails to upgrade (GracefulStopApp FSM failure)
CSCvw19401	Memory leak : DME process may traceback generating core on Firepower 4100/9300 (M5 series only)

Resolved Bugs in FXOS 2.6.1.214

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.6.1.214:

Table 12: Resolved Bugs in FXOS 2.6.1.214

Identifier	Description
CSCvt90558	9300/4100 : Port-channel down after chassis software upgrade.
CSCvu27487	FXOS ASA race condition leading to cluster join failure and network outage
CSCvu53810	TD2 does not load balance MPLS across backplane interfaces and sends it all to first interface
CSCvu76107	ASA app-instance restart without audit log or trigger

Resolved Bugs in FXOS 2.6.1.204

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.6.1.204:

Table 13: Resolved Bugs in FXOS 2.6.1.204

Identifier	Description
CSCvo79254	Not able to login after system init setup, with [No space left on device] error
CSCvp37324	FXOS: Firepower Chassis not taking changes on RADIUS Server(s) and still using the old one(s)
CSCvs41966	Inconsistent interface status on the FXOS when Port is Down by Propagate Link State
CSCvs92044	FXOS L3 Egress Object Resource Leak due to Port-Channel Member Interface Flaps
CSCvs94061	NTP script error leading to clock drift and traffic interruption
CSCvt06091	FXOS displays a WSP-Q40GLR4L transceiver from show interface as type QSFP-40G-LR4
CSCvt17947	Need dedicated Rx rings for failover and OSPF on Firepower platform - Cruz fix
CSCvt20235	Firepower 4100 series all FTW interfaces link flap at the same time but occur rarely
CSCvt34160	"Link not connected" error after reboot when using WSP-Q40GLR4L transceiver on FPR9K-NM-4X40G
CSCvt39897	FP 4120 svc_sam_dcosAG crashed with crash type:139
CSCvt70832	fpr4100 snmp polling to fxos memory-usage shows incorrect value compare with CLI's output

Resolved Bugs in FXOS 2.6.1.192

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.6.1.192:

Table 14: Resolved Bugs in FXOS 2.6.1.192

Identifier	Description
CSCvj00997	"show open-network-ports" not showing the proper infomration on FP4100 Series
CSCvn11962	FXOS randomly shows one NTP server as 'Unreachable Or Invalid NTP Server' once added 4 NTP servers
CSCvn78002	FPR4100/9300 Smart Licensing fail - Error : Licensing internal error(68)
CSCvq03687	FXOS 'show lacp counters' Sent vs Recv counters are not properly separated
CSCvq93572	Unable to add user on FTD using external authentication
CSCvr74901	AppAG encoding for FXOS logical device bootstrap
CSCvr79926	Traceback in cruz
CSCvr82740	mgmt bootstrap PASSWORD should not be in appAG log
CSCvr88163	FPR9300 hangs after reboot is triggered for firmware upgrade
CSCvs23575	BladeAG reload due to memory leak with M5 blade
CSCvs34851	Continuous link flapping leading to snm_log corefile
CSCvs90447	FXOS 8x1G FTW continuous link flap
CSCvt06743	FTW watch-dog kick delays

Resolved Bugs in FXOS 2.6.1.187

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.6.1.187:

Table 15: Resolved Bugs in FXOS 2.6.1.187

Identifier	Description
CSCvh68895	extra "Local Disk 3" displayed on FPR9300
CSCvi48404	Firepower Chassis Reloads due to License Manager
CSCvj00997	"show open-network-ports" not showing the proper infomration on FP4100 Series
CSCvp69229	OpenSSL 0-byte Record Padding Oracle Information Disclosure Vulnerabil
CSCvq12258	Storage controller firmware version is not upgraded during FXOS upgrade
CSCvq24253	FXOS: Show System Resources yields negative value of the memory
CSCvq93640	WRL6 and WRL8 commit id update in CCM layer (sprint 67)
CSCvr01651	Data interfaces bring up delayed after chassis reboot

Identifier	Description
CSCvr40573	FPR-4100: FXOS CLI crash with fwm hap reset
CSCvr40573	FPR-4100: FXOS CLI crash with fwm hap reset
CSCvs39368	DME process crash due to memory leak on Firepower 9300/4100

Resolved Bugs in FXOS 2.6.1.174

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.6.1.174:

Table 16: Resolved Bugs in FXOS 2.6.1.174

Identifier	Description
CSCvq31946	Ability to disable auto-negotiation for SFP (1G optical)
CSCvq33092	output discards also includes input discards and input discards is not incremented
CSCvq36298	Cannot change MTU size on ASAv after upgrade
CSCvr04845	DME crash after FXOS chassis reload with maximum number of https ip-blocks configured
CSCvr24920	FPR-4110: FXOS CLI crash in feature-mgr process

Resolved Bugs in FXOS 2.6.1.169

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.6.1.169:

Table 17: Resolved Bugs in FXOS 2.6.1.169

Identifier	Description
CSCvm96265	Disable HTTP OPTIONS enabled
CSCvo40340	FPR4100: serial, model and vendor are black after FAN OIR
CSCvq17910	Multicast MAC not programmed on chassis upon app reboot or cluster rejoin
CSCvq19641	Evaluation of Firepower 4k/9k Supervisor for TCP_SACK
CSCvq33916	Linkdown between FP 4100 and switch when using 40gb bidi to 40/100 bidi

Resolved Bugs in FXOS 2.6.1.166

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.6.1.166:

Table 18: Resolved Bugs in FXOS 2.6.1.166

Identifier	Description
CSCvk60985	Machine Check events logged. Possible hardware issue. FXOS Blade: mcelog support
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
CSCvo55809	ASA App stuck in installing sate on 2.6.1.112 + ASA 9.12.0.125
CSCvo85861	Propagate link-state not shown in FTD CLI
CSCvo90987	Enhancement for debugging link down/flap issues for bcm_usd.log files on customer units
CSCvp10674	FTD may not become online after installing vDP and upgrading FXOS to version 2.4.1
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
CSCvp56801	'show tech-support module 1 app-instance <appname> <identifier>' fails when only 1x instance on 4100
CSCvp83437	serial console login using local account succeeds but immediately returns to login prompt

Resolved Bugs in FXOS 2.6.1.157

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.6.1.157:

Table 19: Resolved Bugs in FXOS 2.6.1.157

Identifier	Description
CSCvm72541	Speed is 0 in interfaceMapping message if a port-channel's status is down
CSCvo10291	FTD External Auth using RADIUS fails when pre-shared key contains database characters
CSCvo29067	FXOS upgrade hangs and started generating DME corefiles
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"
CSCvo65464	FPR2100: EIGRP routes with learned over port channel interface become Infinite FD
CSCvo75349	FXOS Blade CRUZ FW coredump due to a memory corruption

Identifier	Description
CSCvo87116	MTS messages stuck in AppAG recv_q
CSCvp09791	FXOS/FTD multi-instance deployments multicast traffic outage

Resolved Bugs in FXOS 2.6.1.131

The following table lists the previously release-noted and customer-found bugs that were resolved in FXOS 2.6.1.131:

Table 20: Resolved Bugs in FXOS 2.6.1.131

Identifier	Description
CSCvg54742	FTW - Traffic loss seen when chassis shutdown gracefully from FXOS GUI
CSCvj00997	"show open-network-ports" not showing the proper information on FP4100 Series
CSCvj47857	MIO Crashed on bootup due to ethpm hap reset
CSCvj96380	SAM Coupler should force FTW bypass if switch bypass enable fails
CSCvk46399	svc_sam_bladeAG_log core seen after MIO reboot
CSCvm31905	OpenSSH Bailout Delaying User Enumeration Vulnerability
CSCvm37578	Local User login asaConsoleDbg Permission denied error
CSCvm51377	Linux Kernel acpi_ns_evaluate() Function Information Disclosure Vulnerability
CSCvm97473	Linux Kernel drivers/tty/n_tty.c Denial of Service Vulnerability
CSCvn24594	add NTPDATE update of blade sysclock from the supervisor before starting NTPD
CSCvn41072	Linux Kernel vcpu_scan_ioapic Function Issue
CSCvn50990	Wireshark DCOM Dissector Denial of Service Vulnerability
CSCvn68238	DPDK vhost-user Interface Information Disclosure Vulnerability
CSCvn76908	[ciam] Linux Kernel USB Subsystem Data Size Checks Handling Vulnerability
CSCvn83018	Firepower 2100: Memory leak seen with process LACP
CSCvo08464	[ciam] Sudo get_process_ttyname Function Device Name Handling Security Bypass Vulnerability
CSCvo31071	Traffic drops when a unit is re-joining the cluster.
CSCvo58998	FXOS Cruz Adapter doesn't validate data sent by logical device causing dropped offloaded packets

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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