



# Cisco FXOS Release Notes, 1.1(3)

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This document contains release information for Cisco Firepower eXtensible Operating System 1.1(3).

Use this release note as a supplement with the other documents listed in the documentation roadmap:

<http://www.cisco.com/go/firepower9300-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.

This document contains the following sections:

- [Introduction, page 2](#)
- [What's New, page 2](#)
  - [New Features in FXOS 1.1.3.97, page 2](#)
  - [New Features in FXOS 1.1.3.86, page 2](#)
  - [New Features in FXOS 1.1.3.84, page 2](#)
- [Image Details, page 3](#)
- [Important Notes, page 3](#)
- [System Requirements, page 4](#)
- [Installation Notes, page 4](#)
- [Open and Resolved Bugs, page 5](#)
  - [Open Bugs, page 5](#)
  - [Resolved Bugs in FXOS 1.1.3.97, page 6](#)
  - [Resolved Bugs in FXOS 1.1.3.86, page 6](#)
  - [Resolved Bugs in FXOS 1.1.3.84, page 6](#)
- [Related Documentation, page 7](#)
- [Obtaining Documentation and Submitting a Service Request, page 7](#)

## Introduction

The Cisco Firepower 9300 security appliance is a next-generation platform for network and content security solutions. The Firepower 9300 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 Firepower 9300 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 1.1.3.97

Cisco Firepower eXtensible Operating System 1.1.3.97 introduces the following new features:

- Support for ASA 9.5.2.11.
- Fixes for various problems (see [Resolved Bugs in FXOS 1.1.3.97, page 6](#)).

### New Features in FXOS 1.1.3.86

Cisco Firepower eXtensible Operating System 1.1.3.86 introduces the following new features:

- Support for ASA 9.5.2.2.
- Fixes for various problems (see [Resolved Bugs in FXOS 1.1.3.86, page 6](#)).

### New Features in FXOS 1.1.3.84

Cisco Firepower eXtensible Operating System 1.1.3.84 introduces the following new features:

- Support for ASA 9.5.2.1.
- Inter-chassis clustering—FXOS 1.1.3 introduces support for clustering security modules together across multiple Firepower 9300 security appliances (also known as inter-chassis clustering). Inter-chassis clustering has been tested using up to six security modules.
- Flow offload—On security modules running ASA 9.5(2), you can identify select traffic to be off-loaded to a super fast path, where the flows are switched in the NIC itself. Off-loading can help you improve performance for data-intensive applications such as large file transfers.
- Packet Capture—allows you collect packets being sent to and from the customer-facing ports and backplane ports on a Firepower 9300.

## Image Details

- Support of the Smart License Manager satellite for the Firepower 9300. Customers who cannot, or do not, want to manage their Cisco products using the Cisco Smart Software Manager residing at software.cisco.com can choose to install the Cisco Smart Manager satellite on-premises. When the satellite application is enabled, you can activate, register, view, and transfer your company's licenses without sending data to Cisco Smart Software Manager using the Internet.
- Configuration Import/Export—allows you to import and export logical device and platform configuration settings as an XML file. You can also configure a recurring export task or configure a notification to remind you to perform an export.
- QoS—FXOS 1.1(3) adds support for prioritizing traffic based on QoS settings. QoS configurations specific to the Firepower 9300 are not user configurable. Most of the configurations are applied automatically during initialization, and some are applied during logical-device configuration.
- SGT Load Balancing—FXOS 1.1(3) adds support for load balancing of traffic with Secure Group Tags. There is no specific configuration or CLI available for this feature. It is statically enabled and cannot be disabled. SGT Load Balancing is supported for IPv4 traffic only.
- Fixes for various problems (see [Resolved Bugs in FXOS 1.1.3.84, page 6](#)).

## Image Details

FXOS 1.1.3.97 includes the following components:

Component	Build Number	Image Location
FXOS 1.1.3.97 Platform Bundle	fxos-k9.1.1.3.97.SPA	<a href="#">FXOS 1.1.3 Software Download</a>
ASA 9.5(2.11)	cisco-asa.9.5.2.11.SPA.csp	<a href="#">ASA 9.5.2.11 Software Download</a>

FXOS 1.1.3.86 includes the following components:

Component	Build Number	Image Location
FXOS 1.1.3.86 Platform Bundle	fxos-k9.1.1.3.86.SPA	<a href="#">FXOS 1.1.3 Software Download</a>
ASA 9.5(2.2)	cisco-asa.9.5.2.2.SPA.csp	<a href="#">ASA 9.5.2.2 Software Download</a>

FXOS 1.1.3.84 includes the following components:

Component	Build Number	Image Location
FXOS 1.1.3.84 Platform Bundle	fxos-k9.1.1.3.84.SPA	<a href="#">FXOS 1.1.3 Software Download</a>
ASA 9.5(2.1)	cisco-asa.9.5.2.1.SPA.csp	<a href="#">ASA 9.5.2.1 Software Download</a>

## Important Notes

- Beginning with FXOS 1.1(3), the behavior for port-channels has changed. Now, when a port-channel is created, it will be configured as lacp cluster-detach by default and its status will show as down even if the physical link is up. The port-channel will be brought out of cluster-detach mode in the following situations:
  - The port-channel's port-type is set to either cluster or mgmt
  - The port-channel is added as a data port for a logical device that is part of a cluster and at least one security module has joined the cluster

## System Requirements

If the port-channel is removed from the logical device or the logical device is deleted, the port-channel will revert to cluster-detach mode.

- With the 1.1(3) release, the password hashing mechanism was modified to use SHA512 for security reasons. The existing hashing mechanism was MD5 for the 1.1(1) and 1.1(2) releases. As a result of this change, any previous password history will not be migrated to 1.1(3). In other words, the system will behave as if the **set clear password-history yes** command was used after migrating to 1.1(3). All subsequent passwords created or changed while running 1.1(3) will be entered into and maintained in the password history mechanism.
- To use ASDM and other strong encryption features such as VPN, after you deploy a cluster you must enable the Strong Encryption (3DES) license on the master unit using the ASA CLI.
- If you encounter any issues with accessing the ASA console, we recommend that you switch to a different SSH client or upgrade to a newer version.

## System Requirements

For information about FXOS software and hardware requirements and compatibility, including module compatibility, see [Cisco FXOS Compatibility](#).

## Supported Browsers

You can access the Firepower Chassis Manager using the following browsers:

- Mozilla Firefox - Version 42 and later
- Google Chrome - Version 47 and later

Testing on FXOS 1.1(3) was performed using Mozilla Firefox version 42 and Google Chrome version 47. 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.

## Installation Notes

After upgrading to FXOS 1.1(3), you must perform the following procedure.

### Delete Default Trustpoint

The default trustpoint is generated by the SSL library. FXOS 1.1(3) has been upgraded to use Cisco SSL. Before your unit can connect to the Smart Licensing servers and download entitlements, you must first delete the default trustpoint so that the trustpoint can be regenerated using the new SSL library.

1. Connect to the FXOS CLI.
2. Enter the following commands to delete the default trustpoint:

```
scope security
```

```
delete trustpoint CHdefault
```

```
commit-buffer
```

3. Enter the following commands to reboot the system:

```
connect local-mgmt
```

```
reboot
```

## Open and Resolved Bugs

The open and resolved 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

All open bugs severity 3 and higher for Firepower eXtensible Operating System 1.1(3) can be accessed using the following search and are also listed in the table below:

- [FXOS 1.1\(3\) open bug search](#)

**Table 1 Open Bugs Affecting FXOS 1.1(3)**

Identifier	Description
<a href="#">CSCus73654</a>	ASA do not mark management-only for the mgmt interface assign by LD
<a href="#">CSCut76730</a>	Flow Offload : On new csp install ,offload engine not enabled
<a href="#">CSCuu17780</a>	CLI allows to configure trap as "priv" even when user is set to "sha"
<a href="#">CSCuu18497</a>	NTP radio button not selected even if configured
<a href="#">CSCuv18505</a>	UI issues with creating port-channel (breakout port members) using CM
<a href="#">CSCuv76823</a>	1G Copper and Fiber blink on EPM. Should stay Solid Green
<a href="#">CSCuv97491</a>	Message enic_get_flowtable_ctrl(): error enic_get_ft_ctrl failed!!
<a href="#">CSCuv99740</a>	Error message is not shown when the session memory usage is full
<a href="#">CSCuw03704</a>	FXOS SW displays incorrect Supervisor VID
<a href="#">CSCuw31077</a>	Filter applied to a interface should be validated
<a href="#">CSCuw37616</a>	Deleting&adding interface in append mode has the deleted interface file
<a href="#">CSCuw43815</a>	Currently running firmware bundle package deletion not allowed.
<a href="#">CSCuw61160</a>	Warning message shown 3 times after edit cluster
<a href="#">CSCuw68106</a>	after importing all configuration old user password might not work
<a href="#">CSCuw82080</a>	ChassisManager: Must display port-channel operationalState
<a href="#">CSCuw86671</a>	Smart License information should be included in export/import
<a href="#">CSCuw89854</a>	Error message when creating session above or around 5GB
<a href="#">CSCuw95062</a>	Bad error messages when downgrading ASA from chassis manager
<a href="#">CSCux04158</a>	ASA app-instance failed with error" SMA_no_ssp_os_response_in_config_XML"
<a href="#">CSCux05403</a>	9.5.2/main: VPN-Loadbalancing with SSP shows devices as SpykerD
<a href="#">CSCux05661</a>	Chassis Manager: Acknowledge Security Module refers to "blade server"
<a href="#">CSCux15238</a>	Supervisor switch dropping IPv6 Multicast packets
<a href="#">CSCux17304</a>	blade is "not responding" but seems to be up
<a href="#">CSCux18974</a>	SNMP value has truncated and copyright need to update
<a href="#">CSCux19618</a>	SSP: "show mem" causes tcp drop under high loaded CPU

## Open and Resolved Bugs

**Table 1 Open Bugs Affecting FXOS 1.1(3)**

Identifier	Description
<a href="#">CSCux21401</a>	Disabling cluster member can cause add-on license without standard lic
<a href="#">CSCux26822</a>	If slave with entitlement becomes master, other slaves not synced
<a href="#">CSCux36990</a>	Chassis Manager shows network module as "Empty" intermittently
<a href="#">CSCux37611</a>	After fail tftp export, the export configuration remained enable state
<a href="#">CSCux37677</a>	asa console slow response
<a href="#">CSCux37994</a>	VLAN info not displayed in "show interface" output on SSP
<a href="#">CSCux44527</a>	User should not be allowed to cancel in-progress import configuration
<a href="#">CSCux45823</a>	PID value is showing empty in output for show fan-module detail
<a href="#">CSCux46537</a>	Import-config failed at stage 4 importWaitForSwitch

## Resolved Bugs in FXOS 1.1.3.97

The following table lists the defects that were resolved in Firepower eXtensible Operating System 1.1.3.97:

**Table 2 Resolved Bugs in FXOS 1.1.3.97**

Identifier	Description
<a href="#">CSCuy66912</a>	Ping does not pass to outside network.FXOS-1.1(4.85) + ASA-9.6.0.124
<a href="#">CSCuy70690</a>	Add app_id support for feature/snm
<a href="#">CSCuy79839</a>	Handle MTS_OPC_SNM_NOTIF_MSG message in portAG

## Resolved Bugs in FXOS 1.1.3.86

The following table lists the defects that were resolved in Firepower eXtensible Operating System 1.1.3.86:

**Table 3 Resolved Bugs in FXOS 1.1.3.86**

Identifier	Description
<a href="#">CSCux03547</a>	SNMP mib object output changed.
<a href="#">CSCuy36940</a>	FXOS I2-config mismatch from ASA MAC Addresses

## Resolved Bugs in FXOS 1.1.3.84

The following table lists the previously release-noted and customer-found defects that were resolved in Firepower eXtensible Operating System 1.1.3.84:

**Table 4 Resolved Bugs in FXOS 1.1.3.84**

Identifier	Description
<a href="#">CSCuu22893</a>	Dates not displayed on Updates screen
<a href="#">CSCuv59357</a>	SSP3RU: Cluster: Unable to add 3 logical device in cluster
<a href="#">CSCuv65571</a>	PSU PID and product name doesn't show after inserting new PSU
<a href="#">CSCuv78619</a>	Delete App object fails even if no slot has that application installed.
<a href="#">CSCuv86427</a>	Blade Health-LED showing green in fprm even though it's amber
<a href="#">CSCuw18186</a>	REST local Cookies - not working osx Yosemite release and chrome 45.0
<a href="#">CSCuw30963</a>	FP9300: Unable to 'fsck flash' for CSP

## Related Documentation

For additional information on the Firepower 9300 security appliance and the Firepower eXtensible Operating System, see [Navigating the Cisco Firepower 9300 Documentation](#).

## Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see [What's New in Cisco Product Documentation](#).

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the [What's New in Cisco Product Documentation RSS feed](#). The RSS feeds are a free service.

## Related Documentation

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