

OpenNSL 3.1.0.8 Release Notes Release Candidate

Version 0.2

24-Mar-2016

OpenNSL 3.1.0.8 Release Notes

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1 Release Candidate Status and Support

This release of OpenNSL is a release candidate. It is not GA code and has not gone through the full QA cycle. Serious defects may exist in this release. It is being provided to the community as a preview of the OpenNSL 3.1 release.

Broadcom provides this release candidate package "AS IS" and grant no warranty and/or support. For more information, please review OpenNSL legal terms.

For a GA version of OpenNSL, please use version 3.0.

2 Overview

This document provides a general description of the OpenNSL release. It also describes the supported platforms, API additions or changes, resolved issues and any relevant open issues.

OpenNSL 3.1.0.8 release adds the following new features:

- Support for CoS module.
- Support for CoS API's
- Support for L2 table activity API's
- Support for additional port management API's

For product documentation, please refer to the 'doc/html/index.html' file in the OpenNSL package, or access the following URL: http://broadcom-switch.github.io/OpenNSL/doc/html/index.html.

3 Deliverables

3.1 Date of Delivery

OpenNSL version 3.1.0.8 is released on 24th March 2016.

3.2 Distribution Method

OpenNSL is distributed via Broadcom's DOCSAFE and Broadcom's GitHub forums.

3.3 Items included in this release

Following are the items included in this release:

- OpenNSL library for supported platforms
- OpenNSL header files
- OpenNSL documentation
- OpenNSL example applications and supporting software.

3.4 Items Not Included in this release

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

• None

4 Platform Support

This release contains support for the following platforms:

Platform	Broadcom Switching Silicon
Interface Masters Niagara 2948-6XL switch	Trident-II (BCM56850_A1)
Wedge Switch	Trident-II (BCM56850_A1)
Celestica Redstone-XP	Trident-II (BCM56850_A1)
Accton AS5712	Trident-II (BCM56854_A2)
Dell S6000	Trident-II (BCM56850_A1)

5 Testing

The following table lists the high level testing done on OpenNSL API's using the sample applications.

Sample Application	Test description
L2 firewall	Verified L2 entry addition and deletion by
	checking the traffic from/to a destination.
	This application is also tested by booting it
	in warm boot mode.
Routing	Created host and default routes and
	verified that traffic is routed as per the
	routes added. This application is also
	tested by booting it in warm boot mode.
Trunk	Added few ports to a trunk and verified
	that the traffic is distributed across the
	trunk members. This application is also
	tested by booting it in warm boot mode.
KNET	Created a Linux interface that maps to a
	front panel port with a specified IP and net
	mask and verified the configured
	parameters from the Linux shell.
BST	Verified display and clearing of basic BST
	counters.
sFlow	Verified configuration, display of sFlow
	sampling rate along with the sampling of
	packets to CPU at configured rate.
Warm Boot	Verified restarting of OpenNSL driver in
	Warm Boot mode and ensured that the L2,
	VLAN, Port and L3 state is retained
	without impacting data forwarding.
Field Processor	Verified configuration of Field process

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	QSET, rules, and actions to block traffic
	from specific range of source IPv4
	addresses.
VxLAN	Verified configuration of VxLAN tunnel, encapsulation and de-capsulation of a
	packet by sending traffic.
Statistics	Verified updating of port counters on
	sending traffic.

6 Issues resolved

ID	Description
FP-233955	Removed reserved elements from opennsl_switch_event_t
FP-238275	13a_ip4_options_profile_id attribute is not working
FP-238660	Packets on KNET interface coming up double tagged

7 Known Issues

ID	Description
FP-230782	QSFP ports on Accton AS5712 platform are not supported
FP-233309	Warmboot feature is not supported on Accton AS5712

8 Previous Releases

Date	Release Number	Feature Set	Codebase
9 th Mar	3.1.0.7	• SDK upgrade to version 6.4.10	6.4 branch
2015		 Support for customizing platform initialization 	
		 Support for VXLAN, Mirroring, 	
		Field Processor, QoS, Flex Statistics and Tunnel modules	
		 Support for Dell S6000 Switch 	
		 Support for L2 cache management APIs 	
		 Support for Trunk failover 	
		 Increased the number of KNET 	
		filters from 128 to 256.	
		 Support for additional Spanning Tree APIs 	
		Support for additional L2 callback events	
		 Licensing changes for specific OpenNSL modules. 	

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4 th Dec 2015	3.0.0.4	 SDK upgrade to 6.4.8 Support for Accton AS5712 Switch Support for Broadcom reference platform with Tomahawk B0 switching silicon Support for sFlow Added API's to support for L3 statistics and resilient ECMP Pruning reserved fields from structures and enumerations 	6.4 branch