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OpenNSL 2.0.0.8 Release Notes

Version 0.2

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Contents

1	OVERVIEW	3
2	DELIVERABLES	4
2.1	DATE OF DELIVERY	4
2.2	DISTRIBUTION METHOD.....	4
2.3	ITEMS INCLUDED IN THIS RELEASE	4
2.4	ITEMS NOT INCLUDED IN THIS RELEASE	4
3	PLATFORM SUPPORT	5
4	KNOWN ISSUES.....	5
5	PREVIOUS RELEASES	6 5

1 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 2.0.0.8 adds the following new features:

- SDK upgrade to 6.4.6
- Support for the following modules
 - Trunk
 - KNET
- Sample application to demonstrate L3 routing and STP modules
- Support for Warmboot feature
- Support for Netserve application that is used to connect to OpenNSL application through telnet
- Support for Celestica Redstone XP platform
- Enhanced L2 firewall application to dump the L2 table
- Removed linux-uk-proxy kernel module

For product documentation, please refer to the 'doc/html/index.html' file in the OpenNSL package.

2 Deliverables

2.1 Date of Delivery

OpenNSL version 2.0.0.8 is released on 5th October 2015.

2.2 Distribution Method

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

2.3 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.

2.4 Items Not Included in this release

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

- None

3 Platform Support

This release contains support for the following platforms:

Platform	Broadcom Switching Silicon
Interface Masters Niagara 2948-6XL switch	Trident2 (BCM56850_A1)
Broadcom reference platform (SVK)	Trident+ (BCM56842_A1) Trident2 (BCM56850_A1) Tomahawk (BCM56960_A0)
Wedge Switch	Trident2 (BCM56850_A1)
Celestica Redstone-XP	Trident2 (BCM56850_A1)

4 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.

Only minimal testing has been done on the following.

Features:

- Warmboot

5 Known Issues

There are no known issues with this release.

6 Previous Releases

Date	Release Number	Feature Set	Codebase
7 th Mar 2014	6.4.3.8	<ul style="list-style-type: none">• OpenNSL initial version• Added support for the following new features:<ul style="list-style-type: none">- L2, VLAN, L3, Link, Spanning Tree, Port, Tx/Rx, Packet and COSQ modules- L2 firewall and BST applications	6.4 branch