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# **OpenNSL 3.0.0.5 Release Notes**

Version 0.1

11-Apr-2016

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## **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 3.0.0.5 includes fixes for issues mentioned in “Issues Resolved” section.

This release is based on SDK version 6.4.8.

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 3.0.0.5 is released on 11<sup>th</sup> April 2016.

### **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 | Trident-II (BCM56850_A1)                                                                     |
| Broadcom reference platform (SVK)         | Trident+ (BCM56842_A1)<br>Trident-II (BCM56850_A1)<br>Tomahawk (BCM56960_A0,<br>BCM56960_B0) |
| 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)                                                                     |

### 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.                                                                                                               |
| 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. |
|--|----------------------------------------------------------------------------------------------------------------|

## 5 Issues resolved

| ID        | Description                             |
|-----------|-----------------------------------------|
| FP-239273 | Crash while allocating packet structure |

## 6 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 and Dell S6000 platform |

## 7 Previous Releases

| Date                     | Release Number | Feature Set                                                                                                                                                                                                                                                                                                                                                                                   | Codebase           |
|--------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 2nd Mar 2016             | 3.0.0.5        | Add support for the following new features: <ul style="list-style-type: none"> <li>• Support for Dell S6000 Switch</li> <li>• Support for Switch Abstraction Interface (SAI)</li> </ul>                                                                                                                                                                                                       | 3.0 release branch |
| 4 <sup>th</sup> Dec 2015 | 3.0.0.2        | <ul style="list-style-type: none"> <li>• SDK upgrade to 6.4.8</li> <li>• Support for Accton AS5712 Switch</li> <li>• Support for Broadcom reference platform with Tomahawk B0 switching silicon</li> <li>• Support for sFlow</li> <li>• Added API's to support for L3 statistics and resilient ECMP</li> <li>• Pruning reserved fields from structures and enumerations</li> <li>•</li> </ul> | 6.4 branch         |