

**OPNFV** 

August 14, 2016

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Features to		Dec 2015	OPNFV Open vSwitch Collectd DPDK
DPDK 2.0	August 2015 DPDK 2.1	DPDK 2.2	16.04
<ul> <li>Call-back API</li> <li>RX/TX timestamping sample app.</li> </ul>	<ul> <li>Extended NIC stats for ixgbe.</li> <li>proc_info</li> </ul>	<ul> <li>Extended NIC stats for igb, i40e and VFs.</li> <li>Extended NIC API Alignment across drivers.</li> <li>DPDK Keep Alive</li> </ul>	<ul> <li>Primary process liveliness check.</li> <li>dpdkstat plugin – pull request</li> <li>Ceilometer plugin</li> </ul>
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ustomer Benefit proved SLA Policy Monitoring, SLA forcement, Provisioning, Fault Detection	Customer Benefit Improved SLA Policy Monitoring, SLA Enforcement, Provisioning, Fault Detection	Customer Benefit Improved Platform Reliability (Five 9's feature), Fault Detection	Customer Benefit Improved Platform Reliability (Five 9's feature), Fault Detection
ature Set affic Latency KPI Monitoring Capability	Feature set Improved Traffic Port Monitoring KPIs	Feature set Improved Reliability, Platform Telemetry	Feature set Improved Reliability, Platform Telemetry

This section provides a summary of the features implemented to date and their relevant upstream projects.

Fig. 1: SFQM features to date

Please note the timeline denotes DPDK releases.

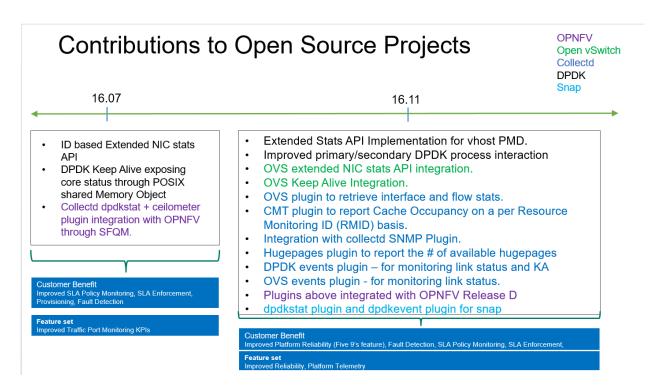


Fig. 2: SFQM features to date cont.

#### CHAPTER

## ONE

## **RELEASE B**

The features implemented for OPNFV release B in DPDK include:

- Callback API to enable TX/RX timestamping to measure latency through DPDK.
- Extended NIC statistics API for 1GB, 10GB and 40GB NICs to expose detailed statistics for DPDK interfaces in addition to the overall aggregate statistics.
- DPDK Keep Alive.

### CHAPTER

TWO

# **RELEASE C**

The features implemented for OPNFV release C include:

- DPDK extended NIC stats API improvement; migrate from key value pairs to using id value pairs.
- DPDK Keep Alive improvement, so that core status is exposed through a posix shared memory object.
- collectd dpdkstat plugin that can retrieve DPDK interface statistics.
- collectd ceilometer plugin that can publish any statistics collected by collectd to ceilometer.
- Fuel plugin support for the collectd ceilometer plugin for OPNFV.