What additional software features/enhancements were introduced in the Sniffer10G v3 and in the DBLv3 software?

Model:

N/A

Software:

Sniffer10g v3, DBL v3

Operating System:

Supports both the Linux and Windows Operating Systems.

Information:

Sniffer10G v3

Windows WinPcap support
Arista Networks DANZ timestamping support
FreeBSD 10 and Redhat Enterprise Linux 7 support
Sniffer10G v3 adds support for FreeBSD and Redhat Enterprise Linux 7
The FreeBSD 10 port of the Sniffer10G v3 software currently does not support the FreeBSD-specific version of tcpdump included in **/usr/sbin/tcpdump**. As temporary workaround, please use the unmodified tcpdump included in **/usr/ports/net/tcpdump** or obtain the tcpdump source code directly from http://www.tcpdump.org/release/tcpdump-4.4.0.tar.gz.

Support for directing all traffic to multiple independent applications.
RSS Hashing support for SCTP, GRE, GTPv1 and GTPv2.
Reduced Sniffer Host CPU overhead for greater than 4 threads.
In Sniffer10G v3 for Linux, more of the overhead is fixed and shared between threads, leading to much improved scalability as the number of threads increases from 4 to 32.

Exposes Data ring address to allow registration by third-packet solutions.
Enables APIs using Acceleration Hardware to register the Sniffer10G zero copy rings. For example, applications using CUDA can register the addresses for direct DMA to GPU platforms.

Improved utility and example programs
Snf_replay according to pcap timestamps.
Snf_replay support on Windows.
Snf_pktgen- more fully featured line rate UDP packet generator.
Snf_cuda_example for Linux and Windows.

DBL v3

DBL v3 includes the following additional DBL software features/enhancements:

1. Performance improvements for latency and packet rate
2. API Extension for TCP
3. Windows non-LSP TA mode
4. Windows 8 / Server 2012 [R2] support
5. Arista Networks DANZ timestamping support
6. TCP congestion management modules
7. DBL-specific socket extensions (MSG_WARM, SIO_GETNICTIME, SO_TIMESTAMP)
8. Myri_ptpv2d support on Windows
9. MSI-X support on Windows

<u>Revision</u>	<u>Date</u>	<u>Change</u>
1	6/30/2016	Initial Draft
2	8/18/2016	Feedback Edits