What additional software features/enhancements were introduced in the Sniffer10G v3 and in the DBL v3 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](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
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

<table>
<thead>
<tr>
<th>Revision</th>
<th>Date</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6/30/2016</td>
<td>Initial Draft</td>
</tr>
<tr>
<td>2</td>
<td>8/18/2016</td>
<td>Feedback Edits</td>
</tr>
</tbody>
</table>