Valkyrie2889 Test Report

Test Summary

Test company:	Xena Networks
Customer:	GSI TOS
Test Date and Time:	2023-12-01, 12:16
Test Duration:	00:34:11 (h:m:s)
Generated By:	Valkyrie2889 v1.41, running on 'Microsoft Windows 10 Enterprise'

Comments:　DM broadcast, up to 16 timing events, 4 layers:
- host: aconbg027
- chassis: Xenabay (140.181.139.228)
DUT:
- WRS: backplane v3.30, scb v3.4, Creotech
- name: nwt0010/16/296/297
- fw: v6.1
- dot-config: production

Test Setup

Test Configuration

Subtest Selection

Rate Test: Full Mesh	Disabled
Rate Test: Part.Mesh, 1:N	Disabled
Rate Test: Part.Mesh, N->N	Disabled
Congestion Control:	Disabled
Forward Pressure:	Disabled
Maximum Forwarding Rate:	Disabled
Address Caching Capacity:	Disabled
Address Learning Rate:	Disabled
Errored Frames Filtering:	Disabled
Broadcast Forwarding:	Enabled

Test Options

Packet Sizes Used:	90,134,222,398,574,750
Rate Type:	Fraction
Fraction per Port:	100,00%
Latency Measurement Mode:	Last-To-Last
Toggle Port Sync States:	Yes

Traffic Configuration

Used Chassis

Chassis ID	Chassis Name	Address
C-0	xenatos	140.181.139.228:22606

Used Ports

Port ID	Interface Type	Speed	IP Address & Gateway	Protocol Segment Profile
P-0-0-0	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-0-1	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-0-2	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet

P-0-0-3	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-0-4	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-0-5	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-2-0	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-2-1	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-2-2	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-2-3	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-2-4	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-2-5	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-4-0	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-4-1	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-4-2	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-4-3	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-4-4	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-4-5	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet

Broadcast Forwarding Results

Test Setup

Duration: 30 seconds
Iteration: 1

Initial Rate: 0,10%
Maximum Rate: 100,00%
Minimum Rate: 0,10%
Resolution: 1,00%

Port ID	Port Role
P-0-0-0	Source
P-0-0-1	Destination
P-0-0-2	Destination
P-0-0-3	Destination
P-0-0-4	Destination
P-0-0-5	Destination
P-0-2-0	Destination
P-0-2-1	Destination
P-0-2-2	Destination
P-0-2-3	Destination
P-0-2-4	Destination
P-0-2-5	Destination
P-0-4-0	Destination
P-0-4-1	Destination
P-0-4-2	Destination
P-0-4-3	Destination
P-0-4-4	Destination
P-0-4-5	Destination

Test Results

Frame Size	90	134	222	398	574	750
Result State	PASS	PASS	PASS	PASS	PASS	PASS
Iter. #	1	1	1	1	1	1
Tx Rate (Percent)	89,854 %	92,586 %	94,537 %	97,073 %	97,659 %	98,463 %
Tx (Frames)	30.337.179	22.330.699	14.546.296	8.583.760	6.116.631	4.743.567
Tx Rate (L1) (Bit/s)	889,89 M	917,05 M	938,72 M	956,8 M	968,87 M	974,01 M
Tx Rate (Fps)	1.011.239	744.357	484.877	286.125	203.888	158.119
Loss Rate (Percent)	0 %	0 %	0 %	0 %	0 %	0 %
Loss (Frames)	0	0	0	0	0	0
P-0-0-1						
- Rx (Frames)	30.337.179	22.330.699	14.546.296	8.583.760	6.116.631	4.743.567
- Rx Rate (L1) (Bit/s)	889,89 M	917,05 M	938,72 M	956,8 M	968,87 M	974,01 M
- Rx Rate (Fps)	1.011.239	744.357	484.877	286.125	203.888	158.119
- Avg Latency (micsec)	10,215	11,239	11,154	11,274	11,137	12,637
- Min Latency (micsec)	9,952	11,002	10,842	10,954	10,898	10,818
- Max Latency (micsec)	12,549	13,720	13,151	14,514	13,808	17,913
- Avg Jitter (micsec)	0,014	0,011	0,009	0,003	0,001	0,002
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,237	1,972	1,948	1,876	1,924	1,755
P-0-0-2						
- Rx (Frames)	30.337.179	22.330.699	14.546.296	8.583.760	6.116.631	4.743.567
- Rx Rate (L1) (Bit/s)	889,89 M	917,05 M	938,72 M	956,8 M	968,87 M	974,01 M
- Rx Rate (Fps)	1.011.239	744.357	484.877	286.125	203.888	158.119
- Avg Latency (micsec)	10,217	11,233	11,135	11,282	11,177	12,649
- Min Latency (micsec)	9,976	11,026	10,842	10,954	10,922	10,818
- Max Latency (micsec)	12,573	13,744	13,175	14,394	14,313	17,938
- Avg Jitter (micsec)	0,014	0,010	0,010	0,004	0,001	0,002
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,212	1,972	1,900	1,900	1,900	1,852
P-0-0-3						
- Rx (Frames)	30.337.179	22.330.699	14.546.296	8.583.760	6.116.631	4.743.567
- Rx Rate (L1) (Bit/s)	889,89 M	917,05 M	938,72 M	956,8 M	968,87 M	974,01 M
- Rx Rate (Fps)	1.011.239	744.357	484.877	286.125	203.888	158.119
- Avg Latency (micsec)	10,215	11,228	11,117	11,275	11,142	12,642

- Min Latency (micsec)	9,976	11,026	10,842	10,954	10,922	10,818
- Max Latency (micsec)	12,670	13,720	13,103	14,418	13,856	17,889
- Avg Jitter (micsec)	0,014	0,011	0,006	0,002	0,001	0,002
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,237	2,020	1,900	1,852	1,755	1,683
P-0-0-4						
- Rx (Frames)	30.337.179	22.330.699	14.546.296	8.583.760	6.116.631	4.743.567
- Rx Rate (L1) (Bit/s)	889,89 M	917,05 M	938,72 M	956,8 M	968,87 M	974,01 M
- Rx Rate (Fps)	1.011.239	744.357	484.877	286.125	203.888	158.119
- Avg Latency (micsec)	10,212	11,223	11,127	11,265	11,149	12,659
- Min Latency (micsec)	9,976	11,002	10,866	10,954	10,946	10,842
- Max Latency (micsec)	12,573	13,720	13,103	14,418	13,856	18,779
- Avg Jitter (micsec)	0,012	0,010	0,008	0,003	0,001	0,002
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,237	1,828	1,996	1,948	1,972	1,804
P-0-0-5						
- Rx (Frames)	30.337.179	22.330.699	14.546.296	8.583.760	6.116.631	4.743.567
- Rx Rate (L1) (Bit/s)	889,89 M	917,05 M	938,72 M	956,8 M	968,87 M	974,01 M
- Rx Rate (Fps)	1.011.239	744.357	484.877	286.125	203.888	158.119
- Avg Latency (micsec)	10,217	11,245	11,137	11,259	11,158	12,641
- Min Latency (micsec)	9,976	11,026	10,866	10,954	10,946	10,842
- Max Latency (micsec)	12,598	14,105	13,103	14,418	14,193	17,889
- Avg Jitter (micsec)	0,012	0,008	0,005	0,003	0,001	0,001
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,212	1,996	1,924	1,948	1,780	1,780
P-0-2-0						
- Rx (Frames)	30.337.179	22.330.699	14.546.296	8.583.760	6.116.631	4.743.567
- Rx Rate (L1) (Bit/s)	889,89 M	917,05 M	938,72 M	956,8 M	968,87 M	974,01 M
- Rx Rate (Fps)	1.011.239	744.357	484.877	286.125	203.888	158.119
- Avg Latency (micsec)	9,640	10,677	10,561	10,688	10,602	12,069
- Min Latency (micsec)	9,390	10,441	10,280	10,393	10,360	10,280
- Max Latency (micsec)	11,964	13,159	12,541	13,929	13,271	17,328
- Avg Jitter (micsec)	0,012	0,009	0,005	0,003	0,001	0,002
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,333	1,948	1,924	1,924	1,852	1,876
P-0-2-1						
- Rx (Frames)	30.337.179	22.330.699	14.546.296	8.583.760	6.116.631	4.743.567
- Rx Rate (L1) (Bit/s)	889,89 M	917,05 M	938,72 M	956,8 M	968,87 M	974,01 M
- Rx Rate (Fps)	1.011.239	744.357	484.877	286.125	203.888	158.119
- Avg Latency (micsec)	9,616	10,676	10,618	10,685	10,598	12,064
- Min Latency (micsec)	9,390	10,393	10,304	10,393	10,360	10,280
- Max Latency (micsec)	11,964	13,135	12,662	13,832	13,271	17,328
- Avg Jitter (micsec)	0,012	0,009	0,010	0,004	0,001	0,002
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,357	2,020	1,996	2,044	1,804	1,755
P-0-2-2						
- Rx (Frames)	30.337.179	22.330.699	14.546.296	8.583.760	6.116.631	4.743.567
- Rx Rate (L1) (Bit/s)	889,89 M	917,05 M	938,72 M	956,8 M	968,87 M	974,01 M
- Rx Rate (Fps)	1.011.239	744.357	484.877	286.125	203.888	158.119
- Avg Latency (micsec)	9,619	10,687	10,644	10,685	10,598	12,063
- Min Latency (micsec)	9,414	10,417	10,401	10,465	10,385	10,377
- Max Latency (micsec)	11,988	13,279	12,662	13,856	13,271	17,328
- Avg Jitter (micsec)	0,012	0,009	0,008	0,003	0,001	0,002
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,357	2,116	1,900	1,900	1,804	1,828
P-0-2-3						
- Rx (Frames)	30.337.179	22.330.699	14.546.296	8.583.760	6.116.631	4.743.567
- Rx Rate (L1) (Bit/s)	889,89 M	917,05 M	938,72 M	956,8 M	968,87 M	974,01 M
- Rx Rate (Fps)	1.011.239	744.357	484.877	286.125	203.888	158.119
- Avg Latency (micsec)	9,622	10,690	10,661	10,688	10,623	12,083
- Min Latency (micsec)	9,414	10,441	10,425	10,465	10,385	10,401
- Max Latency (micsec)	11,964	13,111	12,662	13,856	13,343	17,352
- Avg Jitter (micsec)	0,012	0,011	0,008	0,005	0,002	0,002
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,357	1,924	1,900	1,852	1,804	1,852
P-0-2-4						
- Rx (Frames)	30.337.179	22.330.699	14.546.296	8.583.760	6.116.631	4.743.567
- Rx Rate (L1) (Bit/s)	889,89 M	917,05 M	938,72 M	956,8 M	968,87 M	974,01 M
- Rx Rate (Fps)	1.011.239	744.357	484.877	286.125	203.888	158.119
- Avg Latency (micsec)	9,635	10,697	10,670	10,701	10,610	12,093
- Min Latency (micsec)	9,414	10,441	10,425	10,465	10,409	10,425

- Max Latency (micsec)	11,964	13,159	12,686	13,856	13,343	17,376
- Avg Jitter (micsec)	0,014	0,011	0,009	0,004	0,001	0,002
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,333	1,996	1,972	1,948	1,804	1,780
P-0-2-5						
- Rx (Frames)	30.337.179	22.330.699	14.546.296	8.583.760	6.116.631	4.743.567
- Rx Rate (L1) (Bit/s)	889,89 M	917,05 M	938,72 M	956,8 M	968,87 M	974,01 M
- Rx Rate (Fps)	1.011.239	744.357	484.877	286.125	203.888	158.119
- Avg Latency (micsec)	9,632	10,685	10,627	10,678	10,627	12,091
- Min Latency (micsec)	9,390	10,465	10,425	10,465	10,409	10,401
- Max Latency (micsec)	12,012	13,159	12,614	13,832	13,319	18,290
- Avg Jitter (micsec)	0,014	0,011	0,007	0,004	0,001	0,002
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,333	1,972	1,948	1,924	1,804	1,876
P-0-4-0						
- Rx (Frames)	30.337.179	22.330.699	14.546.296	8.583.760	6.116.631	4.743.567
- Rx Rate (L1) (Bit/s)	889,89 M	917,05 M	938,72 M	956,8 M	968,87 M	974,01 M
- Rx Rate (Fps)	1.011.239	744.357	484.877	286.125	203.888	158.119
- Avg Latency (micsec)	9,761	10,796	10,796	10,801	10,743	12,215
- Min Latency (micsec)	9,535	10,585	10,545	10,609	10,481	10,545
- Max Latency (micsec)	12,108	13,688	12,806	13,929	13,945	17,497
- Avg Jitter (micsec)	0,012	0,009	0,007	0,003	0,001	0,001
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,309	2,020	1,996	1,852	1,852	1,828
P-0-4-1						
- Rx (Frames)	30.337.179	22.330.699	14.546.296	8.583.760	6.116.631	4.743.567
- Rx Rate (L1) (Bit/s)	889,89 M	917,05 M	938,72 M	956,8 M	968,87 M	974,01 M
- Rx Rate (Fps)	1.011.239	744.357	484.877	286.125	203.888	158.119
- Avg Latency (micsec)	9,761	10,789	10,803	10,818	10,751	12,221
- Min Latency (micsec)	9,487	10,561	10,545	10,609	10,505	10,545
- Max Latency (micsec)	12,614	13,808	12,782	13,953	13,439	17,689
- Avg Jitter (micsec)	0,012	0,009	0,007	0,002	0,001	0,002
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,501	2,044	1,972	1,852	1,852	1,876
P-0-4-2						
- Rx (Frames)	30.337.179	22.330.699	14.546.296	8.583.760	6.116.631	4.743.567
- Rx Rate (L1) (Bit/s)	889,89 M	917,05 M	938,72 M	956,8 M	968,87 M	974,01 M
- Rx Rate (Fps)	1.011.239	744.357	484.877	286.125	203.888	158.119
- Avg Latency (micsec)	9,779	10,806	10,812	10,836	10,746	12,227
- Min Latency (micsec)	9,535	10,585	10,569	10,609	10,481	10,545
- Max Latency (micsec)	12,108	13,279	12,806	14,049	13,463	17,472
- Avg Jitter (micsec)	0,012	0,009	0,007	0,002	0,001	0,002
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,285	2,044	1,876	1,828	1,900	1,852
P-0-4-3						
- Rx (Frames)	30.337.179	22.330.699	14.546.296	8.583.760	6.116.631	4.743.567
- Rx Rate (L1) (Bit/s)	889,89 M	917,05 M	938,72 M	956,8 M	968,87 M	974,01 M
- Rx Rate (Fps)	1.011.239	744.357	484.877	286.125	203.888	158.119
- Avg Latency (micsec)	9,798	10,829	10,774	10,854	10,798	12,230
- Min Latency (micsec)	9,535	10,609	10,569	10,633	10,505	10,569
- Max Latency (micsec)	12,157	13,303	12,758	14,145	13,488	17,497
- Avg Jitter (micsec)	0,012	0,009	0,007	0,003	0,001	0,002
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,285	2,092	1,876	1,852	1,828	1,828
P-0-4-4						
- Rx (Frames)	30.337.179	22.330.699	14.546.296	8.583.760	6.116.631	4.743.567
- Rx Rate (L1) (Bit/s)	889,89 M	917,05 M	938,72 M	956,8 M	968,87 M	974,01 M
- Rx Rate (Fps)	1.011.239	744.357	484.877	286.125	203.888	158.119
- Avg Latency (micsec)	9,767	10,809	10,751	10,828	10,714	12,213
- Min Latency (micsec)	9,511	10,561	10,497	10,609	10,481	10,569
- Max Latency (micsec)	12,157	13,303	12,758	13,929	13,560	17,521
- Avg Jitter (micsec)	0,012	0,009	0,007	0,003	0,001	0,002
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,381	2,116	1,900	2,068	1,948	1,804
P-0-4-5						
- Rx (Frames)	30.337.179	22.330.699	14.546.296	8.583.760	6.116.631	4.743.567
- Rx Rate (L1) (Bit/s)	889,89 M	917,05 M	938,72 M	956,8 M	968,87 M	974,01 M
- Rx Rate (Fps)	1.011.239	744.357	484.877	286.125	203.888	158.119
- Avg Latency (micsec)	9,820	10,848	10,798	10,870	10,768	12,249
- Min Latency (micsec)	9,583	10,609	10,569	10,657	10,505	10,617
- Max Latency (micsec)	12,157	13,303	12,782	14,001	13,608	17,761

- Avg Jitter (micsec)	0,012	0,009	0,007	0,003	0,001	0,002
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,212	2,116	1,876	1,876	1,900	1,900

Broadcast Throughput by Frame Size vs Theoretical Max