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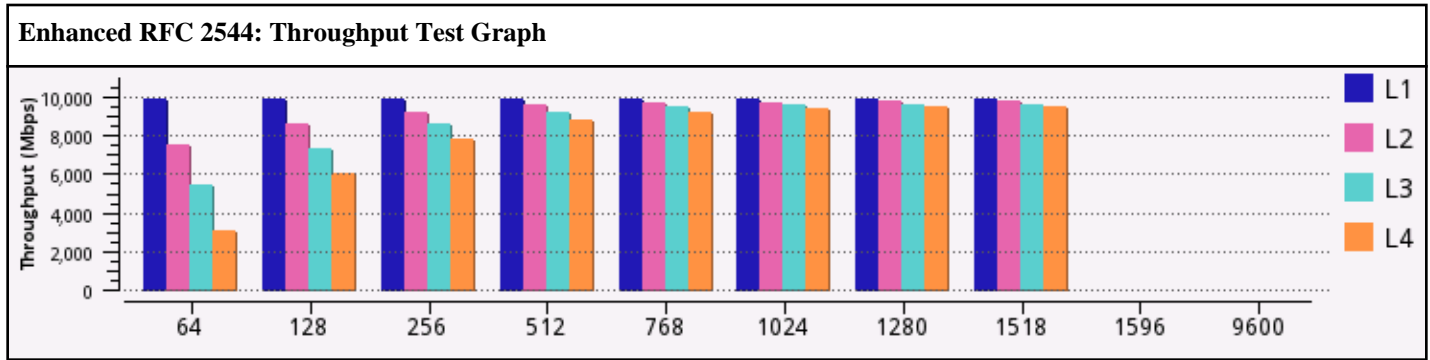
# Enhanced RFC 2544 Test

Overall Test Result: Completed	
<b>Throughput</b>	
<b>Latency</b>	
<b>Packet Jitter</b>	
<b>Frame Loss</b>	
<b>Burst (CBS)</b>	
<b>System Recovery</b>	
<b>Extended Load</b>	

Mode	Symmetric Loopback
Tests to Run	Throughput, Latency, Packet Jitter, Frame Loss, Burst (CBS), System Recovery, Extended Load
Customer Name	Aviat WTM-4800
Technician ID	TWS Twello
Test Location	Twello
Work Order	--
Comments/Notes	--
Instrument	MTS5800V2
Serial Number	WMMP0110460023
SW Version	27.1.0
Start Date	12/17/2019

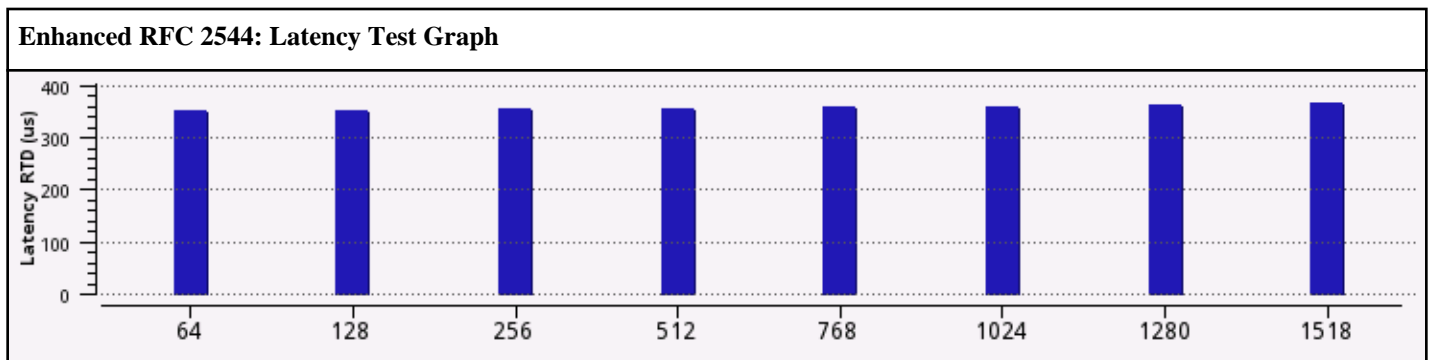
Enhanced RFC 2544 Report - Port 1: 10GigE LAN Layer 2 Traffic Term

End Date	12/17/2019
Start Time	10:37:38
End Time	11:24:04



**Enhanced RFC 2544: Throughput Test Results**

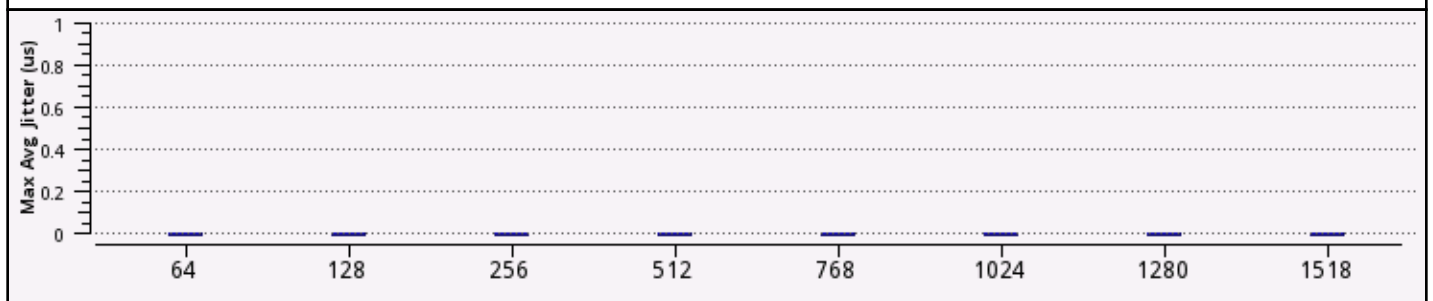
Frame Length (Bytes)	Measured L1 Rate (Mbps)	Measured L2 Rate (Mbps)	Measured L3 Rate (Mbps)	Measured L4 Rate (Mbps)	Measured Rate (frms/sec)	Pause Detect	Cfg Rate (L1 Mbps)
64	9999.6	7618.7	5476.0	3095.1	14,880,360	No	10000.0
128	9999.6	8648.3	7432.1	6080.8	8,445,609	No	10000.0
256	9999.6	9275.0	8622.8	7898.2	4,528,805	No	10000.0
512	9999.6	9623.7	9285.3	8909.4	2,349,531	No	10000.0
768	9999.6	9745.8	9517.4	9263.6	1,586,231	No	10000.0
1024	9999.6	9808.0	9635.6	9444.1	1,197,271	No	10000.0
1280	9975.0	9821.5	9683.4	9530.0	959,135	No	9975.0
1518	9953.0	9823.6	9707.1	9577.7	808,925	No	9953.0
1596	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	No	Unavailable
9600	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	No	Unavailable



**Enhanced RFC 2544: Latency Test Results**

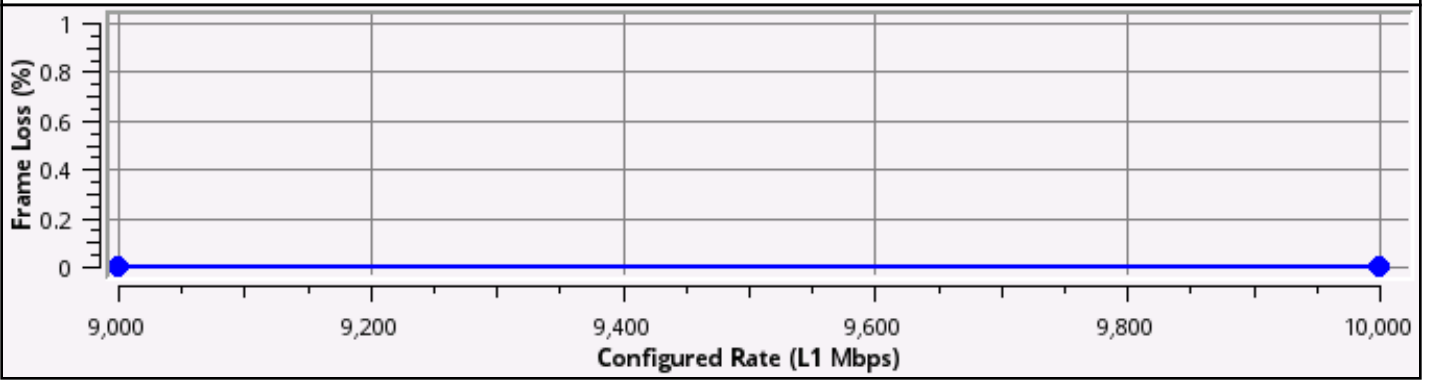
Frame Length (Bytes)	Latency RTD (us)	Measured L1 Rate (Mbps)	Measured L1 (% Line Rate)	Measured Rate (frms/sec)	Pause Detect
64	350	7618.7	76.187%	14,880,360	No
128	350	8648.3	86.483%	8,445,609	No
256	350	9275.0	92.750%	4,528,805	No
512	350	9623.7	96.237%	2,349,531	No
768	350	9745.8	97.458%	1,586,231	No
1024	350	9808.0	98.080%	1,197,271	No
1280	350	9975.0	99.750%	959,135	No
1518	350	9953.0	99.530%	808,925	No
1596	Unavailable	Unavailable	Unavailable	Unavailable	No
9600	Unavailable	Unavailable	Unavailable	Unavailable	No

64	354.26	9999.6	99.996	14,880,360	No
128	354.22	9999.6	99.996	8,445,609	No
256	355.55	9999.6	99.996	4,528,805	No
512	358.06	9999.6	99.996	2,349,531	No
768	360.06	9999.6	99.996	1,586,231	No
1024	362.55	9999.6	99.996	1,197,271	No
1280	364.71	9975.0	99.750	959,135	No
1518	366.36	9953.0	99.530	808,925	No
1596	Unavailable	Unavailable	Unavailable	Unavailable	No
9600	Unavailable	Unavailable	Unavailable	Unavailable	No

**Enhanced RFC 2544: Jitter Test Graph****Enhanced RFC 2544: Jitter Test Results**

<i>Frame Length (Bytes)</i>	<i>Max Avg Jitter (us)</i>	<i>Measured L1 Rate (Mbps)</i>	<i>Measured L1 (% Line Rate)</i>	<i>Measured Rate (frms/sec)</i>	<i>Pause Detect</i>
64	0.00	9999.6	99.996	14,880,360	No
128	0.00	9999.6	99.996	8,445,609	No
256	0.00	9999.6	99.996	4,528,805	No
512	0.00	9999.6	99.996	2,349,531	No
768	0.00	9999.6	99.996	1,586,231	No
1024	0.00	9999.6	99.996	1,197,271	No
1280	0.00	9975.0	99.750	959,135	No
1518	0.00	9953.0	99.530	808,925	No
1596	Unavailable	Unavailable	Unavailable	Unavailable	No
9600	Unavailable	Unavailable	Unavailable	Unavailable	No

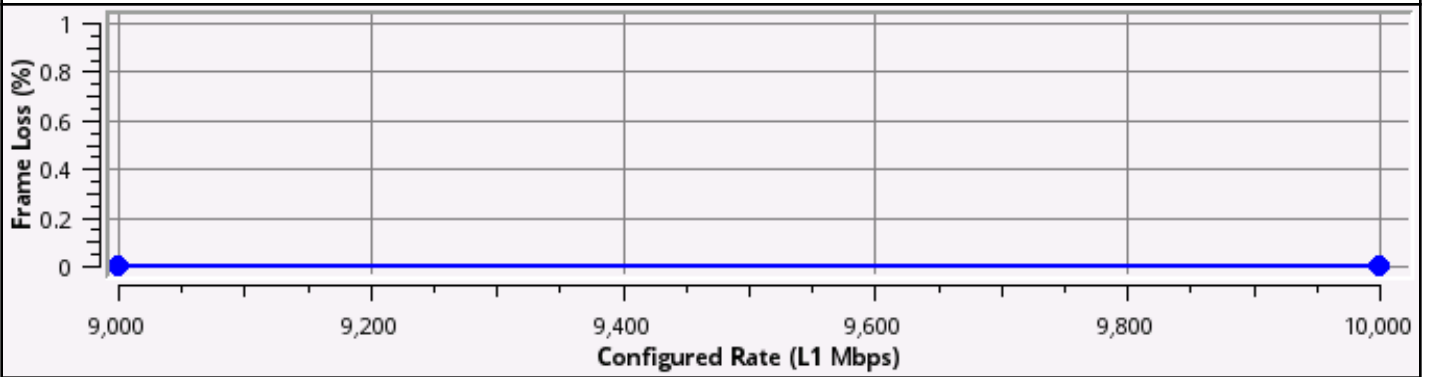
**Enhanced RFC 2544: 64 Byte Frame Loss Test Graph**



**Enhanced RFC 2544: 64 Byte Frame Loss Test Results**

<i>Throughput Rate (L1 Mbps)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>OoS Detect</i>	<i>Pause Detect</i>	<i>Cfg Rate (L1 Mbps)</i>
9999.6	0.00	0	Yes	No	10000.0
9000.0	0.00	0	No	No	9000.0

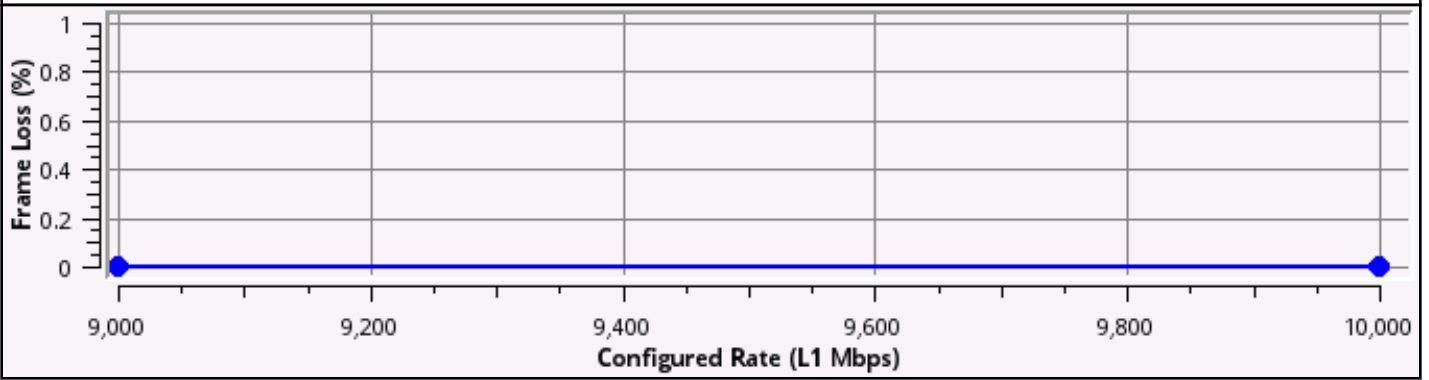
**Enhanced RFC 2544: 128 Byte Frame Loss Test Graph**



**Enhanced RFC 2544: 128 Byte Frame Loss Test Results**

<i>Throughput Rate (L1 Mbps)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>Pause Detect</i>	<i>Cfg Rate (L1 Mbps)</i>
9999.6	0.00	0	No	10000.0
9000.0	0.00	0	No	9000.0

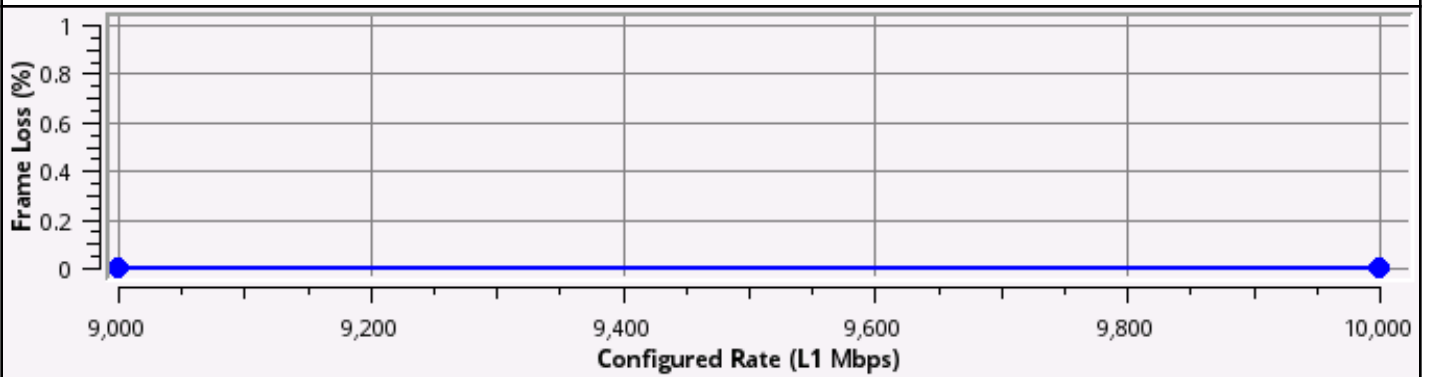
**Enhanced RFC 2544: 256 Byte Frame Loss Test Graph**



**Enhanced RFC 2544: 256 Byte Frame Loss Test Results**

<i>Throughput Rate (L1 Mbps)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>Pause Detect</i>	<i>Cfg Rate (L1 Mbps)</i>
9999.6	0.00	0	No	10000.0
9000.0	0.00	0	No	9000.0

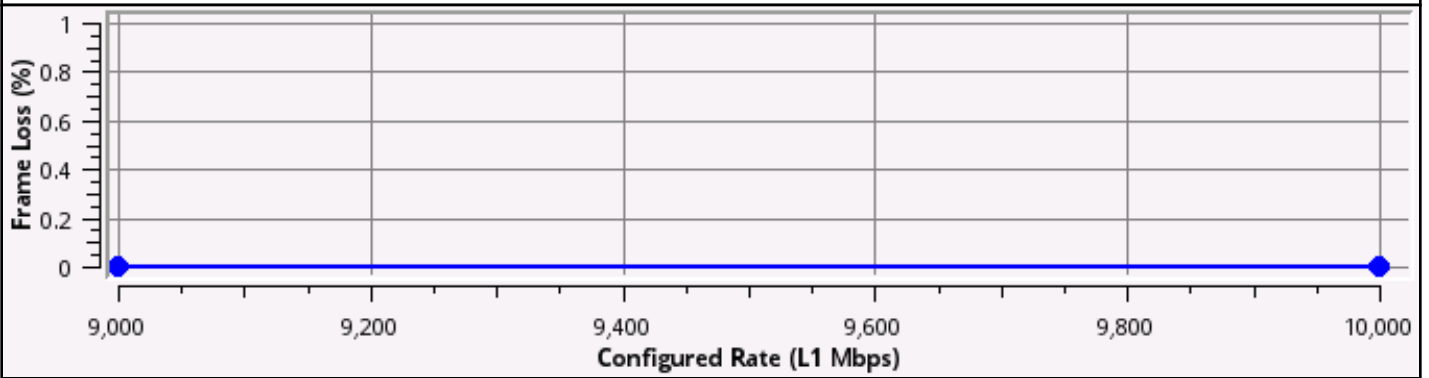
**Enhanced RFC 2544: 512 Byte Frame Loss Test Graph**



**Enhanced RFC 2544: 512 Byte Frame Loss Test Results**

<i>Throughput Rate (L1 Mbps)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>Pause Detect</i>	<i>Cfg Rate (L1 Mbps)</i>
9999.6	0.00	0	No	10000.0
9000.0	0.00	0	No	9000.0

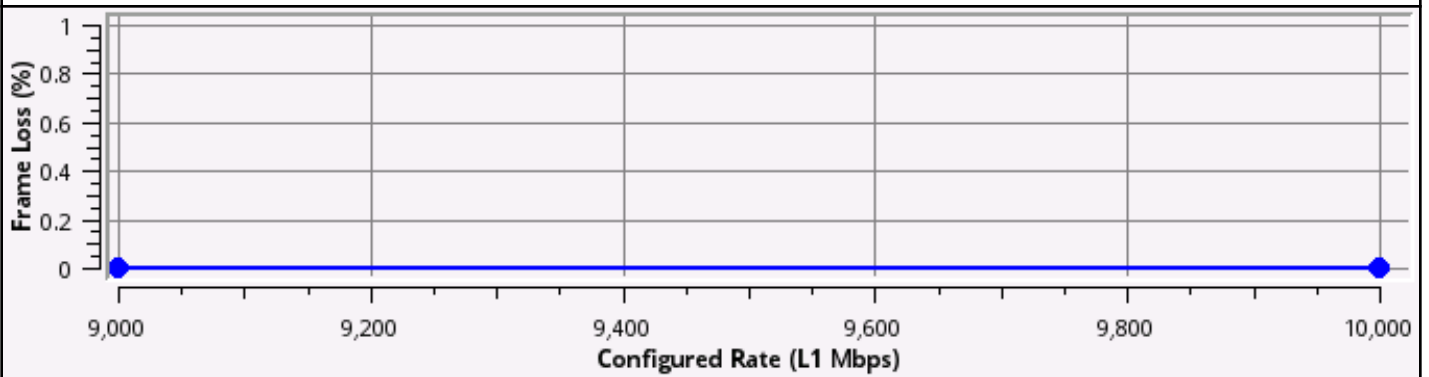
**Enhanced RFC 2544: 768 Byte Frame Loss Test Graph**



**Enhanced RFC 2544: 768 Byte Frame Loss Test Results**

<i>Throughput Rate (L1 Mbps)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>Pause Detect</i>	<i>Cfg Rate (L1 Mbps)</i>
9999.6	0.00	0	No	10000.0
9000.0	0.00	0	No	9000.0

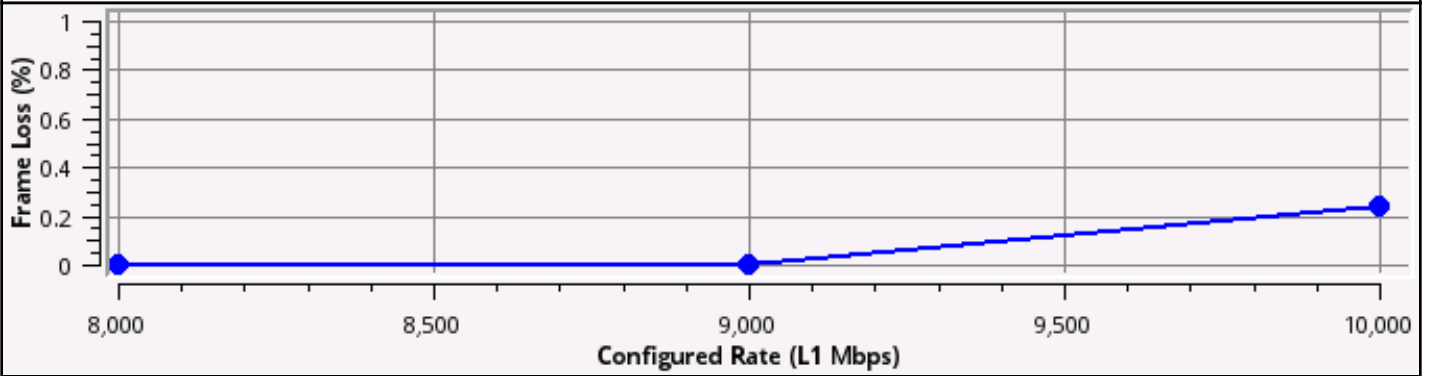
**Enhanced RFC 2544: 1024 Byte Frame Loss Test Graph**



**Enhanced RFC 2544: 1024 Byte Frame Loss Test Results**

<i>Throughput Rate (L1 Mbps)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>Pause Detect</i>	<i>Cfg Rate (L1 Mbps)</i>
9999.6	0.00	0	No	10000.0
9000.0	0.00	0	No	9000.0

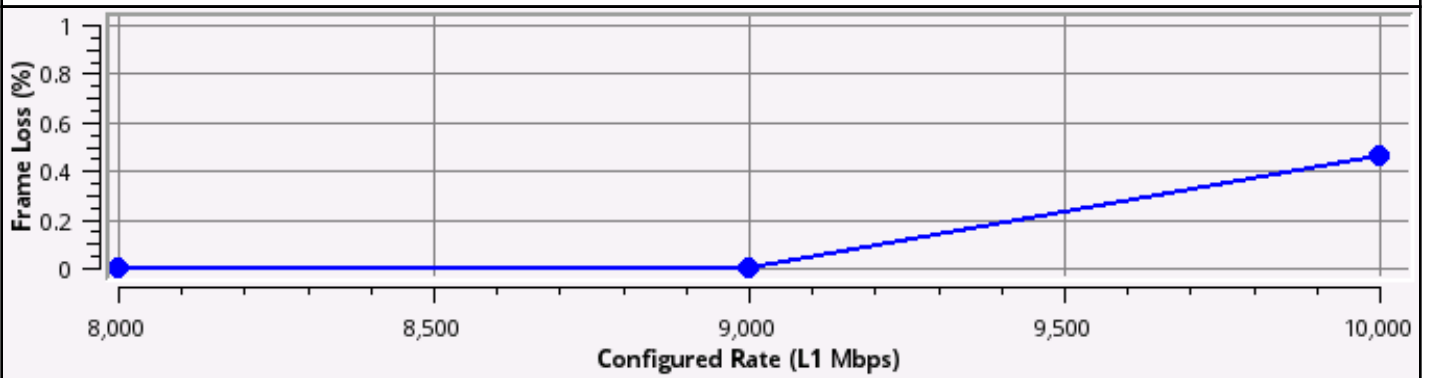
**Enhanced RFC 2544: 1280 Byte Frame Loss Test Graph**



**Enhanced RFC 2544: 1280 Byte Frame Loss Test Results**

<i>Throughput Rate (L1 Mbps)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>Pause Detect</i>	<i>Cfg Rate (L1 Mbps)</i>
9975.1	0.24	69,970	No	10000.0
9000.0	0.00	0	No	9000.0
8000.0	0.00	0	No	8000.0

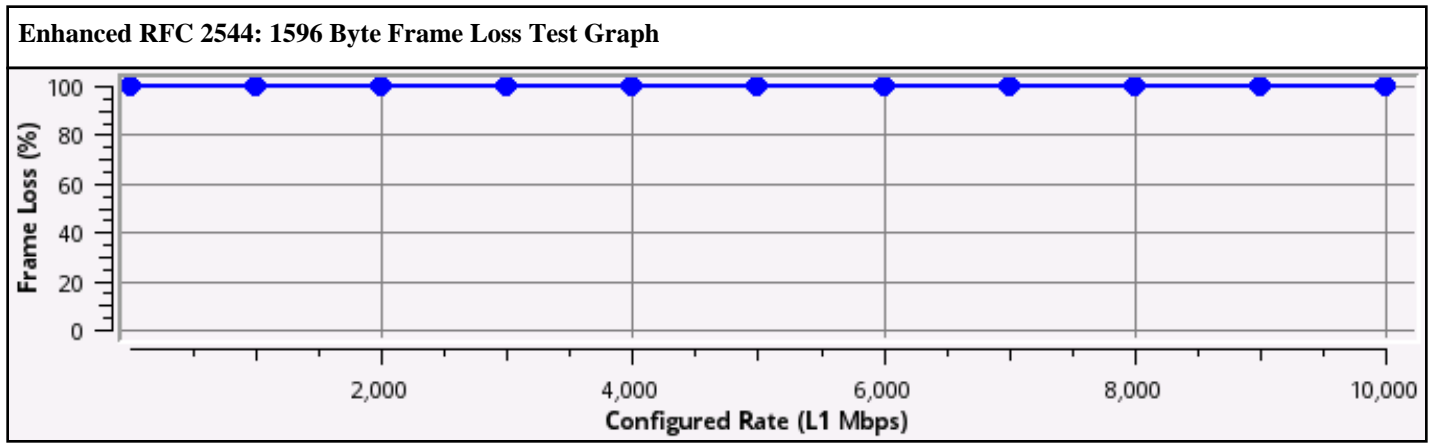
**Enhanced RFC 2544: 1518 Byte Frame Loss Test Graph**



**Enhanced RFC 2544: 1518 Byte Frame Loss Test Results**

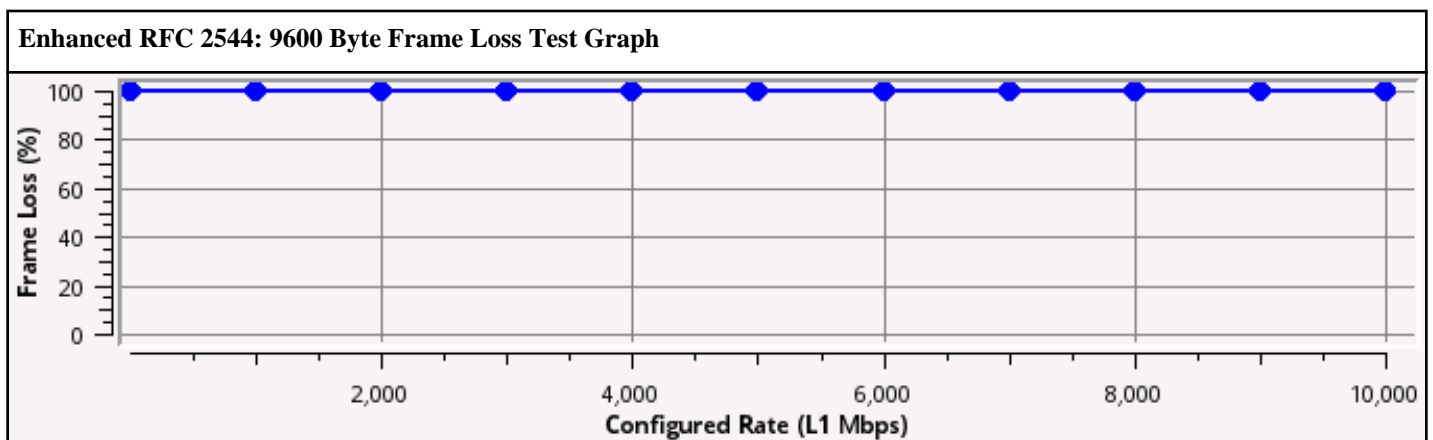
<i>Throughput Rate (L1 Mbps)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>Pause Detect</i>	<i>Cfg Rate (L1 Mbps)</i>
9953.5	0.46	111,909	No	10000.0
9000.0	0.00	0	No	9000.0
8000.0	0.00	0	No	8000.0





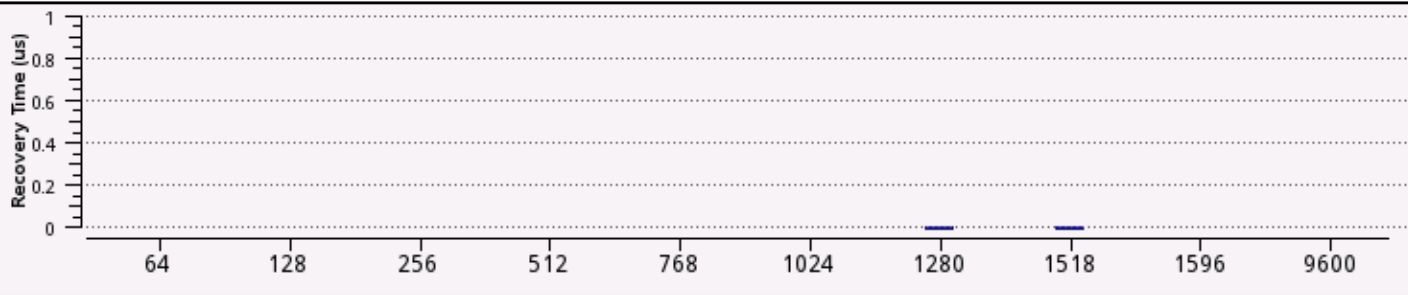
**Enhanced RFC 2544: 1596 Byte Frame Loss Test Results**

<i>Throughput Rate (L1 Mbps)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>Pause Detect</i>	<i>Cfg Rate (L1 Mbps)</i>
0.00	100.00	23,160,644	No	10000.0
0.00	100.00	20,838,112	No	9000.0
0.00	100.00	18,527,039	No	8000.0
0.00	100.00	16,208,086	No	7000.0
0.00	100.00	13,895,159	No	6000.0
0.00	100.00	11,579,308	No	5000.0
0.00	100.00	9,263,548	No	4000.0
0.00	100.00	6,947,396	No	3000.0
0.00	100.00	4,631,617	No	2000.0
0.00	100.00	2,315,028	No	1000.0
0.00	100.00	232	No	0.1



<b>Enhanced RFC 2544: 9600 Byte Frame Loss Test Results</b>				
<i>Throughput Rate (L1 Mbps)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>Pause Detect</i>	<i>Cfg Rate (L1 Mbps)</i>
0.00	100.00	3,885,573	No	10000.0
0.00	100.00	3,501,246	No	9000.0
0.00	100.00	3,111,615	No	8000.0
0.00	100.00	2,723,240	No	7000.0
0.00	100.00	2,334,189	No	6000.0
0.00	100.00	1,945,133	No	5000.0
0.00	100.00	1,556,091	No	4000.0
0.00	100.00	1,167,099	No	3000.0
0.00	100.00	778,041	No	2000.0
0.00	100.00	389,019	No	1000.0
0.00	100.00	39	No	0.1

<b>Enhanced RFC 2544: CBS Test Results</b>								
<i>Frame Length (Bytes)</i>	<i>CIR (L1 Mbps)</i>	<i>Cfg Burst Size (kB)</i>	<i>Tx Burst Size (kB)</i>	<i>Average Rx Burst Size (kB)</i>	<i>Frames Sent</i>	<i>Frames Received</i>	<i>Lost Frames</i>	<i>Pause Detect</i>
64	10000.0	10	9.984	9.984	10,223,460	10,223,460	0	No
128	10000.0	10	9.984	9.984	5,111,730	5,111,730	0	No
256	10000.0	10	9.984	9.984	2,555,865	2,555,865	0	No
512	10000.0	10	9.728	9.728	1,245,165	1,245,165	0	No
768	10000.0	10	9.984	9.984	851,955	851,955	0	No
1024	10000.0	10	9.216	9.216	589,815	589,815	0	No
1280	9975.0	10	8.96	8.960	458,745	458,745	0	No
1518	9953.0	10	9.108	9.108	393,210	393,210	0	No
1596	10000.0	10	9.576	0.000	393,210	0	393,210	No
9600	10000.0	10	9.6	0.000	65,535	0	65,535	No

**Enhanced RFC 2544: System Recovery Test Graph****Enhanced RFC 2544: System Recovery Test Results**

<i>Frame Length (Bytes)</i>	<i>Overload Rate (LI Mbps)</i>	<i>Recovery Rate (LI Mbps)</i>	<i>Average Recovery Time (us)</i>	<i>Pause Detect</i>
64	Unavailable	Unavailable	Unavailable	No
128	Unavailable	Unavailable	Unavailable	No
256	Unavailable	Unavailable	Unavailable	No
512	Unavailable	Unavailable	Unavailable	No
768	Unavailable	Unavailable	Unavailable	No
1024	Unavailable	Unavailable	Unavailable	No
1280	10000.0	5000.0	0	No
1518	10000.0	5000.0	0	No
1596	Unavailable	Unavailable	Unavailable	No
9600	Unavailable	Unavailable	Unavailable	No

**Enhanced RFC 2544: Extended Load Test Results**

Tx Frame Count	142,311,663
Rx Frame Count	142,311,663
Errored Frame Count	0
OoS Frame Count	0
Lost Frame Count	0
Frame Loss Ratio	0.0

**Enhanced RFC 2544: Extended Load Test Event Log**

<i>No.</i>	<i>Event Name</i>	<i>Start Time</i>	<i>End Time</i>	<i>Duration/Value</i>
1	START	11:23:24	11:23:24	0:00:00.0

2	STOP	11:24:02	11:24:02	0:00:00.0
3	START	11:24:05	11:24:05	0:00:00.0

<b>Enhanced RFC 2544: Network Configuration</b>	
Frame Type	DIX
Test Mode	Traffic
Encapsulation	None
Loop Type	Broadcast
EtherType	0x800
Source MAC	00-80-16-92-9D-9A
Auto-increment Source	No
Destination MAC	00-80-16-92-9C-F0

<b>Enhanced RFC 2544: Test Configuration</b>	
Tests to Run	Throughput, Latency, Packet Jitter, Frame Loss, Burst (CBS), System Recovery, Extended Load
Acterna Payload Version	Version 2
Bandwidth Unit	L1 Mbps
Max Test Bandwidth (Mbps)	10000.0
Frame Lengths Selected (bytes)	64, 128, 256, 512, 768, 1024, 1280, 1518, 1596, 9600
Throughput Measurement Accuracy	To within 1 Mbps
Throughput Zeroing-in Process	RFC 2544 Standard
Throughput Frame Loss Tolerance (%)	0
All Tests Duration (s)	30
All Tests Number of Trials	1
Throughput Pass Threshold	Not Selected
Configure Max Bandwidth per Frame Size	Not Selected
Latency Pass Threshold	Not Selected
Packet Jitter Pass Threshold	Not Selected
Frame Loss Test Procedure	RFC 2544 Standard

Frame Loss Bandwidth Granularity (Mbps)	1000
Burst Test Type	Committed Burst Size
Burst CBS Size (kB)	10
CBS Duration (s)	2
Burst CBS Show Pass/Fail	Not Selected
Ignore Pause Frames	Not Selected
Extended Load Throughput Scaling (%)	95
Extended Load Frame Length	256
Test Protection	NO