



FTBx-8870 Report

| wallawalla-k12

PASS

Report Header:	EXFO Inc.
Report Title:	wallawalla-k12
Report Date:	2/3/2025 6:33:49 PM
Type:	EtherSAM (Y.1564)

Job Information

Job ID:	RTASK3240463
Circuit ID:	Astound:11/EUNI/144144//WBB
Contractor Name:	
Customer Name:	wallawalla-k12
Operator Name:	daniel dh
Comment:	

Table of contents

SUMMARY	1
TEST RESULTS	5
TEST SETUP	6
FUNCTIONS	9
SYSTEM INFORMATION	33
LOGGER	35

SUMMARY

Results Summary

Test Status	
Service Configuration Test Status	Completed, Pass
Service Performance Test Status	Completed, Pass
Pass/Fail Verdict	PASS
Start Time	2/3/2025 06:18:21 PM
Duration	00d:00:10:48
Test Recovery	0

EtherSAM

Services Summary			
	Service Name	Service Configuration Test	Service Performance Test
1	Service 1	PASS	PASS

Service Configuration Summary						
	Service Name	Frame Loss Rate	Max Jitter (ms)	Max Latency (ms)	Max Throughput (Mbit/s)	Service Verdict
1	Service 1	0.0E-00	0.03433	12.38817	9749.99	PASS

Service Performance Summary						
	Service Name	Frame Loss Rate	Max Jitter (ms)	Max Latency (ms)	Avg Throughput (Mbit/s)	Service Verdict
1	Service 1	0.0E-00	0.03663	12.38960	9749.99	PASS

VLAN Preservation	No Mismatch Detected
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RX Power Level		
	Min	Max
Power Range (dBm)	-19.0	-1.0
RX Power Level (dBm)	-2.9	-2.8

RX Frequency		
	Max Negative Offset	Max Positive Offset
Frequency Offset (ppm)	0.0	0.4

Alarms/Errors

Alarms/Errors List	
Active/Historical Alarms/Errors	None

Interface	
Alarms	Seconds
LOS	0
Frequency	0

Ethernet	
Alarms	Seconds
Link Down	0
Local Fault Detected	0
Local Fault Received	0
Remote Fault	0

Errors	Seconds	Count	Rate
Block	0	0	0.00E00
FCS	0	0	0.00E00
Jabber	0	0	0.00E00
Oversize	Disabled		
Runt	0	0	0.00E00
Undersize	0	0	0.00E00
Total		0	

Clock Sync	
Alarm	Seconds
LOC	0

IP/UDP/TCP			
Errors	Seconds	Count	Rate
IP Checksum	0	0	0.00E00
UDP Checksum	0	0	0.00E00
TCP Checksum	0	0	0.00E00
Total		0	

Setup Summary

Application Type	EtherSAM (Y.1564)
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Topology	Single Port
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Interface	Port 1
Interface/Rate	10GE LAN
Connector	SFP+

Flow Control	None
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EtherSAM

Pass/Fail Verdict	Enabled
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Sub-Tests			
Service Configuration Test		Service Performance Test	
Ramp Test	Enabled	Status	Enabled
Burst selection	Disabled	Duration	00d:00:10:00
Duration	00:00:20		

Ramp	
Step Time (s)	5
Step Values	
1	50 %
2	75 %
3	90 %
4	100 %

Services

Total Committed TX Rate (Mbit/s)	9750.00
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Services Summary								
	Service Name	Profile	Frame Size (Bytes)	CIR (Mbit/s)	Max Jitter (ms)	Max Latency (ms)	Frame Loss Rate	CBS (Bytes)
1	Service 1	Data	EMIX	9750.00	2.00000	28.00000	1.0E-04	--

TEST RESULTS

Ethernet Traffic

Frame Type	TX Count	RX Count
Multicast	0	24
Broadcast	2	0
Unicast	346336308	346336307
Non-Unicast	2	24
Total	346336310	346336331

Frame Size (Bytes)	RX Count	%
< 64	0	0.0
64	3	0.0
65 - 127	69267772	20.0
128 - 255	69267133	19.9
256 - 511	24	0.0
512 - 1023	69267133	19.9
1024 - 1518	69267133	19.9
> 1518	69267133	19.9
Total	346336331	

Detailed EtherSAM Results

Service Configuration Test

Service 1 : Service 1

Committed Steps					
Committed Step	Frame Loss Rate	Max Jitter (ms)	Max Latency (ms)	Verdict	Avg Throughput (Mbit/s)
1-50%CIR	0.0E-00	0.03433	12.37969	PASS	4874.96
2-75%CIR	0.0E-00	0.01890	12.38115	PASS	7312.48
3-90%CIR	0.0E-00	0.01551	12.38500	PASS	8774.95
CIR	0.0E-00	0.01160	12.38817	PASS	9749.99

Service Performance Test

Service 1 : Service 1

	Average	Minimum	Maximum	Estimate
Throughput (Mbit/s)	9749.99	9749.82	9750.15	N/A
Jitter (ms)	0.00009	< 0.00001	0.03663	0.00005
Latency (ms)	12.37557	12.32365	12.38960	N/A
	Seconds	Count	Rate	
Frame Loss	0	0	0.0E00	
Out-of-Sequence	0	0	0.0E00	

TEST SETUP

Clock Synchronization	
Clock Mode	Internal

Detailed Services Configuration

Layer Mode	Mixed
IP Version	IPv4
Global Pass/Fail Verdict	Enabled
Total Committed TX Rate (Mbit/s)	9750.00

Service 1

Service Profile	
Service Name	Service 1
Profile	Data
Frame Size Type	EMIX
Frame Size (Bytes)	70, 128, 512, 1024, 9000

SLA Parameters	
Information Rate	
CIR (Mbit/s)	9750.00
Performance Criteria	
Max Jitter (ms)	2.00000
Max Latency (ms)	28.00000
Frame Loss Rate	1.0E-04

Test Parameters

Framing	
Frame Format	Ethernet II
Network Layer	IPv4
Transport Layer	UDP
VLAN	None
MPLS	Disabled

Addressing

	MAC	IP Address	UDP Port
Source	00:03:01:F8:22:DD	10.112.0.1 / 255.255.255.0	49184
Destination	00:03:01:14:60:B5	10.112.0.100	7

EtherType	0x0800
Automatic IP (DHCP)	Disabled
TTL	128
TOS	0x00
Default Gateway	Disabled

FUNCTIONS

Ping & Trace Route

Network	
Source MAC Address	00:03:01:F8:22:DD
Source IP Address	10.112.0.1 (Stream 1)
Destination IP Address	10.112.0.100

Ping	
Timeout (ms)	4000
Delay (ms)	1000
Data Size (Bytes)	32
TTL	128
Type Of Service (TOS)	0x00

Ping Results		
No.	Status	Reply Details
54266	Timeout	
54267	Timeout	
54268	Timeout	
54269	Timeout	
54270	Timeout	
54271	Timeout	
54272	Timeout	
54273	Timeout	
54274	Timeout	
54275	Timeout	
54276	Timeout	
54277	Timeout	
54278	Timeout	
54279	Timeout	
54280	Timeout	
54281	Timeout	
54282	Timeout	
54283	Timeout	
54284	Timeout	
54285	Timeout	
54286	Timeout	
54287	Timeout	
54288	Timeout	

54289	Timeout	
54290	Timeout	
54291	Timeout	
54292	Timeout	
54293	Timeout	
54294	Timeout	
54295	Timeout	
54296	Timeout	
54297	Timeout	
54298	Timeout	
54299	Timeout	
54300	Timeout	
54301	Timeout	
54302	Timeout	
54303	Timeout	
54304	Timeout	
54305	Timeout	
54306	Timeout	
54307	Timeout	
54308	Timeout	
54309	Timeout	
54310	Timeout	
54311	Timeout	
54312	Timeout	
54313	Timeout	
54314	Timeout	
54315	Timeout	
54316	Timeout	
54317	Timeout	
54318	Timeout	
54319	Timeout	
54320	Timeout	
54321	Timeout	
54322	Timeout	
54323	Timeout	
54324	Timeout	
54325	Timeout	
54326	Timeout	
54327	Timeout	
54328	Timeout	
54329	Timeout	
54330	Timeout	
54331	Timeout	

54332	Timeout	
54333	Timeout	
54334	Timeout	
54335	Timeout	
54336	Timeout	
54337	Timeout	
54338	Timeout	
54339	Timeout	
54340	Timeout	
54341	Timeout	
54342	Timeout	
54343	Timeout	
54344	Timeout	
54345	Timeout	
54346	Timeout	
54347	Timeout	
54348	Timeout	
54349	Timeout	
54350	Timeout	
54351	Timeout	
54352	Timeout	
54353	Timeout	
54354	Timeout	
54355	Timeout	
54356	Timeout	
54357	Timeout	
54358	Timeout	
54359	Timeout	
54360	Timeout	
54361	Timeout	
54362	Timeout	
54363	Timeout	
54364	Timeout	
54365	Timeout	
54366	Timeout	
54367	Timeout	
54368	Timeout	
54369	Timeout	
54370	Timeout	
54371	Timeout	
54372	Timeout	
54373	Timeout	
54374	Timeout	

54375	Timeout	
54376	Timeout	
54377	Timeout	
54378	Timeout	
54379	Timeout	
54380	Timeout	
54381	Timeout	
54382	Timeout	
54383	Timeout	
54384	Timeout	
54385	Timeout	
54386	Timeout	
54387	Timeout	
54388	Timeout	
54389	Timeout	
54390	Timeout	
54391	Timeout	
54392	Timeout	
54393	Timeout	
54394	Timeout	
54395	Timeout	
54396	Timeout	
54397	Timeout	
54398	Timeout	
54399	Timeout	
54400	Timeout	
54401	Timeout	
54402	Timeout	
54403	Timeout	
54404	Timeout	
54405	Timeout	
54406	Timeout	
54407	Timeout	
54408	Timeout	
54409	Timeout	
54410	Timeout	
54411	Timeout	
54412	Timeout	
54413	Timeout	
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54416	Timeout	
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54418	Timeout	
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54429	Timeout	
54430	Timeout	
54431	Timeout	
54432	Timeout	
54433	Timeout	
54434	Timeout	
54435	Timeout	
54436	Timeout	
54437	Timeout	
54438	Timeout	
54439	Timeout	
54440	Timeout	
54441	Timeout	
54442	Timeout	
54443	Timeout	
54444	Timeout	
54445	Timeout	
54446	Timeout	
54447	Timeout	
54448	Timeout	
54449	Timeout	
54450	Timeout	
54451	Timeout	
54452	Timeout	
54453	Timeout	
54454	Timeout	
54455	Timeout	
54456	Timeout	
54457	Timeout	
54458	Timeout	
54459	Timeout	
54460	Timeout	

54461	Timeout	
54462	Timeout	
54463	Timeout	
54464	Timeout	
54465	Timeout	
54466	Timeout	
54467	Timeout	
54468	Timeout	
54469	Timeout	
54470	Timeout	
54471	Timeout	
54472	Timeout	
54473	Timeout	
54474	Timeout	
54475	Timeout	
54476	Timeout	
54477	Timeout	
54478	Timeout	
54479	Timeout	
54480	Timeout	
54481	Timeout	
54482	Timeout	
54483	Timeout	
54484	Timeout	
54485	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
54486	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
54487	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
54488	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
54489	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
54490	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
54491	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
54492	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
54493	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
54494	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
54495	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
54496	Successful	IP=10.112.0.100, Bytes=32, Time=23 ms, TTL=127
54497	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
54498	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
54499	Successful	IP=10.112.0.100, Bytes=32, Time=14 ms, TTL=127
54500	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
54501	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
54502	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
54503	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127

[illegible]

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[illegible]

55192	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55193	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55194	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55195	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55196	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55197	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55198	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55199	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55200	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55201	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55202	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55203	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55204	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55205	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55206	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55207	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55208	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55209	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55210	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55211	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55212	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55213	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55214	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55215	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55216	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55217	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55218	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55219	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55220	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55221	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55222	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55223	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55224	Successful	IP=10.112.0.100, Bytes=32, Time=12 ms, TTL=127
55225	Timeout	
55226	Timeout	
55227	Timeout	
55228	Timeout	
55229	Timeout	
55230	Timeout	
55231	Timeout	
55232	Timeout	
55233	Timeout	
55234	Timeout	

55235	Timeout	
55236	Timeout	
55237	Timeout	
55238	Timeout	
55239	Timeout	
55240	Timeout	
55241	Timeout	
55242	Timeout	
55243	Timeout	
55244	Timeout	
55245	Timeout	
55246	Timeout	
55247	Timeout	
55248	Timeout	
55249	Timeout	
55250	Timeout	
55251	Timeout	
55252	Timeout	
55253	Timeout	
55254	Timeout	
55255	Timeout	
55256	Timeout	
55257	Timeout	
55258	Timeout	
55259	Timeout	
55260	Timeout	
55261	Timeout	
55262	Timeout	
55263	Timeout	
55264	Timeout	
55265	Timeout	

Ping Statistics	
Packets Transmitted	55265
Packets Received	1486
Percentage Lost (%)	97.3
Minimum Round Trip Time (ms)	2
Maximum Round Trip Time (ms)	23
Average Round Trip Time (ms)	6

SYSTEM INFORMATION

Product Name	Power Blazer Series
Version	Power Blazer Series 1.124
Module ID	FTBx-8870
Slot ID	1
Software Product Version	1.124.0.53
	Power Blazer Series 1.124
Assembly Hardware Revision	B
Serial Number	1343183
Calibration Date	4/20/2020 9:30:00 PM

Pluggable Module

Module ID	SFP+
Vendor Name	WFS
Part Number	10GB-SFP-LR-JN
Serial Number	WFJNXPL917
Hardware Revision	1.0
Connector Type	LC
Speed	10G
Type/Compliance Code	LR, 10.0 km (SMF)
Wavelength	1310 nm
Mode	Single-Mode Fiber
Power Class	Power Class 1 Module (<= 1W max)
Temperature (Max)	28.7 °C

Software Options

100electrical	Ethernet 100Base-TX (Electrical) Interface	Enabled
100optical	Ethernet 100Base-FX (Optical) Interface	Disabled
10electrical	Ethernet 10Base-T (Electrical) Interface	Enabled
10G_LAN	Ethernet 10G LAN (Optical) and 10GBASE-T (Electrical) interfaces	Enabled
10G_WAN	Ethernet 10G WAN optical interface	Enabled
155M	155 Mbit/s	Disabled
1588PTP	1588 Precision Time Protocol	Disabled
2.5-5GE	Ethernet 2.5GBASE-T and 5GBASE-T (Electrical) interfaces	Disabled
2488M	2.488 Gbit/s	Disabled
52M	52 Mbit/s	Enabled
622M	622 Mbit/s	Disabled
9953M	9.953 Gbit/s	Disabled
Cable_Test	Cable Test	Disabled
CPRI	CPRI 2.4576 Gbit/s and 3.072 Gbit/s	Disabled
CPRI-1.2G	CPRI 1.2288 Gbit/s	Disabled
CPRI-10.1G	CPRI 10.1376 Gbit/s	Disabled
CPRI-4.9G	CPRI 4.9152 Gbit/s	Disabled
CPRI-6.1G	CPRI 6.144 Gbit/s	Disabled
CPRI-9.8G	CPRI 9.8304 Gbit/s	Disabled
DS1-FDL	DS1/1.5M Facility Data Link	Disabled
DSn	Digital Signal (DS1, DS3)	Disabled
eCPRI-10G	eCPRI over 10G Ethernet	Disabled
EoE	Ethernet over Ethernet Encapsulation (10GE and less)	Disabled
EoOTN	Ethernet over Optical Transport Network	Disabled
ETH-OAM	Carrier Ethernet OAM Test Application	Disabled
FC-10X	Fibre Channel 10X	Disabled
FC-1X	Fibre Channel 1X	Disabled
FC-2X	Fibre Channel 2X	Disabled
FC-4X	Fibre Channel 4X	Disabled
FC-8X	Fibre Channel 8X	Disabled
GCC-BERT	OTN Overhead BERT and Synchronization Validation	Disabled
GigE_Electrical	Ethernet 1000Base-T (Electrical) Interface	Enabled
GigE_Optical	Ethernet 1000Base-X (Optical) Interface	Enabled
iOptics	Intelligent Pluggable Optic Test Application	Disabled
iSAM	Intelligent Service Activation Methodology	Disabled
L2-Transparency	L2CP Handling Test in EtherSAM	Disabled
LINK-OAM	Link OAM	Disabled
LLDP	LLDP Neighbor Discovery	Disabled
MPLS	MPLS Encapsulation (10GE and less)	Disabled
NI-CSU	NI/CSU Emulation	Disabled
OBSAI	OBSAI 3.072 Gbit/s	Disabled
OBSAI-1.5G	OBSAI 1.536 Gbit/s	Disabled
OBSAI-6.1G	OBSAI 6.144 Gbit/s	Disabled
ODU0	OTN ODU0	Disabled

ODUflex	OTN ODUflex	Disabled
ODUMUX	ODU Multiplexing Payload Type 20 and 21	Disabled
OTN-INTR-THRU	OTN Intrusive Through Mode	Disabled
OTU1	Optical Transport Unit-1 (2.7 Gbit/s)	Disabled
OTU2	Optical Transport Unit-2 (10.7 Gbit/s)	Disabled
OTU2-1e-2e	Optical Transport Unit-2 Overclocked (11.049/11.096 Gbit/s)	Disabled
OTU2-1f-2f	Optical Transport Unit-2 Overclocked (11.270/11.317 Gbit/s)	Disabled
PBBTE	Provider Backbone Bridge Encapsulation (10GE and less)	Disabled
PDH	Plesiochronous Digital Hierarchy (E1, E3, E4)	Disabled
RFC6349	RFC 6349 Test Application (25GE and less)	Disabled
SDH	Synchronous Digital Hierarchy	Enabled
SONET	Synchronous Optical Network	Enabled
SyncE	Synchronous Ethernet	Disabled
TCM	Tandem Connection Monitoring HO/LO	Disabled
TCP-THPUT	Tcp Throughput Test Application	Disabled
TST-OAM	Test Over Service OAM	Disabled

LOGGER

ID	Start Time	Event	Duration	Details
1	02/03 06:18:21 PM	Test Started		2025-02-03
2	02/03 06:18:25 PM	Service Configuration test started		2025-02-03
3	02/03 06:18:59 PM	Service Performance test started		2025-02-03
4	02/03 06:29:09 PM	Test Stopped		 PASS