



FTBx-8870 Report

FAIL

Report Header: EXFO Inc.
Report Title:
Report Date: 7/29/2022 4:10:34 PM
Type: EtherSAM (Y.1564)

Job Information

Job ID: RTASK2182258
Circuit ID: GTT:GTT/002411473
Contractor Name:
Customer Name: spokane-k12
Operator Name: daniel dh
Comment:

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SUMMARY

Results Summary

Test Status	
Service Configuration Test Status	Completed, Pass
Service Performance Test Status	Completed, Fail
Pass/Fail Verdict	FAIL
Start Time	7/29/2022 03:52:35 PM
Duration	00d:00:11:24
Test Recovery	0

EtherSAM

Services Summary			
	Service Name	Service Configuration Test	Service Performance Test
1	Service 1	PASS	FAIL
2	Service 2	PASS	FAIL

Service Configuration Summary							
	Service Name	Direction	Frame Loss Rate	Max Jitter (ms)	Max Latency (ms)	Max Throughput (Mbit/s)	Service Verdict
1	Service 1	L->R	0.0E-00	0.04478	8.84002	4749.96	PASS
		R->L	0.0E-00	0.03165		4749.97	PASS
2	Service 2	L->R	0.0E-00	0.03599	7.74490	4749.97	PASS
		R->L	0.0E-00	0.03853		4749.97	PASS

Service Performance Summary							
	Service Name	Direction	Frame Loss Rate	Max Jitter (ms)	Max Latency (ms)	Avg Throughput (Mbit/s)	Service Verdict
1	Service 1	L->R	3.7E-05	0.07936	47.11492	4749.82	FAIL
		R->L	8.3E-02	23.85703		4354.32	FAIL
2	Service 2	L->R	1.8E-04	7.42427	86.43194	4749.10	FAIL
		R->L	8.3E-02	23.85703		4354.34	FAIL

VLAN Preservation	No Mismatch Detected
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RX Power Level		
	Min	Max
Power Range (dBm)	-15.0	0.5
RX Power Level (dBm)	-3.1	-3.0

RX Frequency		
	Max Negative Offset	Max Positive Offset
Frequency Offset (ppm)	-0.2	0.0

Alarms/Errors

Alarms/Errors List	
Active/Historical Alarms/Errors	Frame Loss, OOSeq

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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Interface	Port 1
Interface/Rate	10GE LAN
Connector	SFP+

Flow Control	None
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EtherSAM

DTS Enabled	
Remote ID	MAX-860GF5
Nat Router Detection	No NAT
Local WAN IP	N/A
Pass/Fail Verdict	Enabled

Sub-Tests			
Service Configuration Test		Service Performance Test	
Ramp Test	Enabled	Status	Enabled
Burst selection	Disabled	Duration	00d:00:10:00
Duration	00:00:40		

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

Services

Total Committed TX Rate (Mbit/s)	L->R	9500.00
	R->L	9500.00

Services Summary									
	Service Name	Profile	Frame Size (Bytes)	Direction	CIR (Mbit/s)	Max Jitter (ms)	Max Latency (ms)	Frame Loss Rate	CBS (Bytes)
1	Service 1	Data	Random	L->R	4750.00	2.00000		1.0E-04	--
				R->L	4750.00	2.00000	28.00000	1.0E-04	
2	Service 2	Data	Random	L->R	4750.00	2.00000		1.0E-04	--
				R->L	4750.00	2.00000	28.00000	1.0E-04	

TEST RESULTS

Ethernet Traffic

Frame Type	TX Count	RX Count
Multicast	0	48
Broadcast	4	4
Unicast	899405208	826513153
Non-Unicast	4	52
Total	899405212	826513205

Frame Size (Bytes)	RX Count	%
< 64	0	0.0
64	443	0.0
65 - 127	34185723	4.1
128 - 255	72915146	8.8
256 - 511	145813405	17.6
512 - 1023	291618954	35.2
1024 - 1518	281979534	34.1
> 1518	0	0.0
Total	826513205	

Detailed EtherSAM Results

Service Configuration Test

Service 1 : Service 1

Committed Steps						
Committed Step	Direction	Frame Loss Rate	Max Jitter (ms)	Max Latency (ms)	Verdict	Avg Throughput (Mbit/s)
1-50%CIR	L->R	0.0E-00	0.03321	7.41523	PASS	2374.98
	R->L	0.0E-00	0.03165		PASS	2375.00
2-75%CIR	L->R	0.0E-00	0.03632	8.50999	PASS	3562.50
	R->L	0.0E-00	0.02460		PASS	3562.49
3-90%CIR	L->R	0.0E-00	0.04478	8.84002	PASS	4274.99
	R->L	0.0E-00	0.01694		PASS	4274.99
CIR	L->R	0.0E-00	0.03739	8.09880	PASS	4749.96
	R->L	0.0E-00	0.02829		PASS	4749.97

Service 2 : Service 2

Committed Steps						
Committed Step	Direction	Frame Loss Rate	Max Jitter (ms)	Max Latency (ms)	Verdict	Avg Throughput (Mbit/s)
1-50%CIR	L->R	0.0E-00	0.02807	7.40181	PASS	2374.98
	R->L	0.0E-00	0.02807		PASS	2375.00
2-75%CIR	L->R	0.0E-00	0.02900	7.49099	PASS	3562.50
	R->L	0.0E-00	0.02973		PASS	3562.49
3-90%CIR	L->R	0.0E-00	0.03599	7.74490	PASS	4275.00
	R->L	0.0E-00	0.03417		PASS	4274.99
CIR	L->R	0.0E-00	0.03449	7.68176	PASS	4749.97
	R->L	0.0E-00	0.03853		PASS	4749.97

Service Performance Test

Service 1 : Service 1

	Direction	Average	Minimum	Maximum	Estimate
Throughput (Mbit/s)	L->R	4749.82	4642.70	4784.07	N/A
	R->L	4354.32	4110.57	4542.42	N/A
Jitter (ms)	L->R	0.00059	< 0.00001	0.07936	0.00061
	R->L	0.00036	< 0.00001	23.85703	0.00018
Latency (ms)	Round-trip	30.03472	7.33937	47.11492	N/A
		Seconds	Count	Rate	
Frame Loss	L->R	1	16471	3.7E-05	
	R->L	584	36305641	8.3E-02	
Out-of-Sequence	L->R	0	0	0.0E00	
	R->L	2	45331	1.0E-04	

Service 2 : Service 2

	Direction	Average	Minimum	Maximum	Estimate
Throughput (Mbit/s)	L->R	4749.10	4173.85	4920.38	N/A
	R->L	4354.34	4110.70	4542.69	N/A
Jitter (ms)	L->R	0.00064	< 0.00001	7.42427	0.00051
	R->L	0.00036	< 0.00001	23.85703	0.00021
Latency (ms)	Round-trip	30.19660	7.33784	86.43194	N/A
		Seconds	Count	Rate	
Frame Loss	L->R	3	82520	1.8E-04	
	R->L	586	36302966	8.3E-02	
Out-of-Sequence	L->R	0	0	0.0E00	
	R->L	3	45448	1.0E-04	

TEST SETUP

Clock Synchronization

Clock Mode	Internal
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Detailed Services Configuration

IP Version	IPv4	
Layer Mode	Mixed	
Global Pass/Fail Verdict	Enabled	
	L->R	R->L
Total Committed TX Rate (Mbit/s)	9500.00	9500.00

Service 1

Service Profile	
Service Name	Service 1
Profile	Data
Frame Size Type	Random

SLA Parameters		
	L->R	R->L
Information Rate		
CIR (Mbit/s)	4750.00	4750.00
Performance Criteria		
Max Jitter (ms)	2.00000	2.00000
Max Latency (ms)	28.00000	28.00000
Frame Loss Rate	1.0E-04	

Test Parameters		
	L->R	R->L

Framing		
Frame Format	Ethernet II	
Network Layer	IPv4	
Transport Layer	UDP	
	L->R	R->L
VLAN	None	None

Addressing

		MAC	IP Address	UDP Port
L->R	Source	00:03:01:F8:22:D8	10.112.0.1 / 255.255.255.0	49184
	Destination	00:03:01:10:2D:87	10.112.0.100	7
R->L	Source	00:03:01:10:2D:87	10.112.0.100 / 255.255.255.0	7
	Destination	00:03:01:F8:22:D8	10.112.0.1	49184

	L->R	R->L
EtherType	0x0800	0x0800
Automatic IP (DHCP)	Disabled	No
TTL	128	128
TOS	0x00	0
Default Gateway	Disabled	Disabled

Service 2

Service Profile	
Service Name	Service 2
Profile	Data
Frame Size Type	Random

SLA Parameters		
	L->R	R->L
Information Rate		
CIR (Mbit/s)	4750.00	4750.00
Performance Criteria		
Max Jitter (ms)	2.00000	2.00000
Max Latency (ms)	28.00000	28.00000
Frame Loss Rate	1.0E-04	

Test Parameters		
	L->R	R->L

Framing		
Frame Format	Ethernet II	
Network Layer	IPv4	
Transport Layer	UDP	
	L->R	R->L
VLAN	None	None

Addressing

		MAC	IP Address	UDP Port
L->R	Source	00:03:01:F8:22:D8	10.112.0.1 / 255.255.255.0	49184
	Destination	00:03:01:13:C0:94	10.112.0.100	7
R->L	Source	00:03:01:13:C0:94	10.112.0.100 / 255.255.255.0	7
	Destination	00:03:01:F8:22:D8	10.112.0.1	49184

	L->R	R->L
EtherType	0x0800	0x0800
Automatic IP (DHCP)	Disabled	No
TTL	128	128
TOS	0x00	0
Default Gateway	Disabled	Disabled

FUNCTIONS

Ping & Trace Route

Network	
Source MAC Address	00:03:01:F8:22:D8
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
1	Successful	IP=10.112.0.100, Bytes=32, Time=7 ms, TTL=127
2	Successful	IP=10.112.0.100, Bytes=32, Time=7 ms, TTL=127
3	Successful	IP=10.112.0.100, Bytes=32, Time=7 ms, TTL=127
4	Successful	IP=10.112.0.100, Bytes=32, Time=7 ms, TTL=127

Ping Statistics	
Packets Transmitted	4
Packets Received	4
Percentage Lost (%)	0.0
Minimum Round Trip Time (ms)	7
Maximum Round Trip Time (ms)	7
Average Round Trip Time (ms)	7

Trace Route	
Timeout (ms)	4000
Max Hop Count	128

SYSTEM INFORMATION

Product Name	Power Blazer Series
Version	Power Blazer Series 1.94
Module ID	FTBx-8870
Slot ID	1
Software Product Version	1.94.0.63
	Power Blazer Series 1.94
Assembly Hardware Revision	B
Serial Number	1343184
Calibration Date	4/20/2020 8:28:00 PM

Pluggable Module

Module ID	SFP+
Vendor Name	WFS
Part Number	WFSP-1396-10-J
Serial Number	3172922861
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)	33.6 °C

Software Options

DS1-FDL	DS1/1.5M Facility Data Link	Disabled
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CPRI-10.1G	CPRI 10.1376 Gbit/s	Disabled
SDH	Synchronous Digital Hierarchy	Enabled
SONET	Synchronous Optical Network	Enabled
622M	622 Mbit/s	Disabled
eCPRI-10G	eCPRI over 10G Ethernet	Disabled
DSn	Digital Signal (DS1, DS3)	Disabled
PDH	Plesiochronous Digital Hierarchy (E1, E3, E4)	Disabled
155M	155 Mbit/s	Disabled
2488M	2.488 Gbit/s	Disabled
10G_LAN	Ethernet 10G LAN optical interface	Enabled
10G_WAN	Ethernet 10G WAN optical interface	Enabled
L2-Transparency	L2CP Handling Test in EtherSAM	Disabled
TCM	Tandem Connection Monitoring HO/LO	Disabled
G82752	ITU-T G.8275.2 Profile	Disabled
TunableOptics	Tunable Wavelength Support for SFP+	Disabled
9953M	9.953 Gbit/s	Disabled
OTU1	Optical Transport Unit-1 (2.7 Gbit/s)	Disabled
OTU2	Optical Transport Unit-2 (10.7 Gbit/s)	Disabled
100optical	Ethernet 100Base-FX (Optical) Interface	Disabled
GigE_Optical	Ethernet 1000Base-X (Optical) Interface	Enabled
GigE_Electrical	Ethernet 1000Base-T (Electrical) Interface	Enabled
FC-1X	Fibre Channel 1X	Disabled
FC-2X	Fibre Channel 2X	Disabled
TCP-THPUT	Tcp Throughput Test Application	Disabled
100electrical	Ethernet 100Base-TX (Electrical) Interface	Enabled
10electrical	Ethernet 10Base-T (Electrical) Interface	Enabled
ODUMUX	ODU Multiplexing Payload Type 20 and 21	Disabled
FC-10X	Fibre Channel 10X	Disabled
OTU2-1e-2e	Optical Transport Unit-2 Overclocked (11.049/11.096 Gbit/s)	Disabled
FC-4X	Fibre Channel 4X	Disabled
ADV-FILTERS	Advanced Filtering	Disabled
MPLS	MPLS Encapsulation (10GE and less)	Disabled
IPV6	Internet Protocol Version 6 (IPv6) (10GE and less)	Disabled
OTN-INTR-THRU	OTN Intrusive Through Mode	Disabled
EoOTN	Ethernet over Optical Transport Network	Disabled
ETH-THRU	Through Mode Test Application	Disabled
OTU2-1f-2f	Optical Transport Unit-2 Overclocked (11.270/11.317 Gbit/s)	Disabled
Cable_Test	Cable Test	Disabled
ODU0	OTN ODU0	Disabled
ETH-CAPTURE	Ethernet Frame Capture for Advanced Troubleshooting	Disabled
ODUflex	OTN ODUflex	Disabled
TRAFFIC-SCAN	Traffic Scan	Disabled
52M	52 Mbit/s	Enabled
NI-CSU	NI/CSU Emulation	Disabled
FC-8X	Fibre Channel 8X	Disabled
CPRI	CPRI 2.4576 Gbit/s and 3.072 Gbit/s	Disabled

OBSAI	OBSAI 3.072 Gbit/s	Disabled
1588PTP	1588 Precision Time Protocol	Disabled
SyncE	Synchronous Ethernet	Disabled
ETH-OAM	Carrier Ethernet OAM Test Application	Disabled
CPRI-1.2G	CPRI 1.2288 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
DUAL-PORT	Dual Port Test	Disabled
RFC6349	RFC 6349 Test Application (10GE and less)	Disabled
iSAM	Intelligent Service Activation Methodology	Disabled
PoE	Power Over Ethernet	Disabled
LINK-OAM	Link OAM	Disabled
DP-CPRI	Dual Port CPRI	Disabled
TST-OAM	Test Over Service OAM	Disabled
G82751	ITU-T G.8275.1 Profile	Disabled
iOptics	Intelligent Pluggable Optic Test Application	Disabled
EoE	Ethernet over Ethernet Encapsulation (10GE and less)	Disabled
PBBTE	Provider Backbone Bridge Encapsulation (10GE and less)	Disabled
RFC6349-EXFOWorx	Enables EXFO Worx Interop Operation Mode	Disabled
GCC-BERT	OTN Overhead BERT and Synchronization Validation	Disabled
OBSAI-1.5G	OBSAI 1.536 Gbit/s	Disabled
OBSAI-6.1G	OBSAI 6.144 Gbit/s	Disabled
DTS-NAT	NAT Traversal for DTS applications	Disabled

LOGGER

ID	Start Time	Event	Duration	Details
1	07/29 03:52:35 PM	Test Started		2022-07-29
2	07/29 03:52:42 PM	Service Configuration test started		2022-07-29
3	07/29 03:53:48 PM	Service Performance test started		2022-07-29
4	07/29 03:53:53 PM	Frame Loss	00:02:18	8487420/8487420 S(2)
5	07/29 03:53:53 PM	Frame Loss	00:00:09	519029/519029 S(1)
6	07/29 03:53:54 PM	Latency > 28.0 ms	00:10:06	86.43194 ms S(2)
7	07/29 03:53:54 PM	Latency > 28.0 ms	00:10:06	47.11492 ms S(1)
8	07/29 03:54:04 PM	Frame Loss	00:01:40	6293065/6812094 S(1)
9	07/29 03:55:45 PM	Frame Loss	00:00:27	1751056/8563150 S(1)
10	07/29 03:55:56 PM	OOSeq	00:00:01	30243/30243 S(2)
11	07/29 03:55:56 PM	OOSeq	00:00:01	30213/30213 S(1)

ID	Start Time	Event	Duration	Details
12	07/29 03:55:57 PM	Jitter > 2.0 ms	00:00:01	23.85703 ms S(2)
13	07/29 03:55:57 PM	Jitter > 2.0 ms	00:00:01	23.85703 ms S(1)
14	07/29 03:56:12 PM	Frame Loss	00:00:18	1199155/9686575 S(2)
15	07/29 03:56:13 PM	Frame Loss	00:00:24	1557620/10120770 S(1)
16	07/29 03:56:31 PM	Frame Loss	00:01:44	6496076/16182651 S(2)
17	07/29 03:56:38 PM	Frame Loss	00:00:13	866739/10987509 S(1)
18	07/29 03:56:52 PM	Frame Loss	00:00:02	200755/11188264 S(1)
19	07/29 03:56:55 PM	Frame Loss	00:01:24	5223926/16412190 S(1)
20	07/29 03:58:16 PM	Frame Loss	00:02:10	7336628/23519279 S(2)
21	07/29 03:58:20 PM	Frame Loss	00:00:31	1796577/18208767 S(1)
22	07/29 03:58:52 PM	Frame Loss	00:00:53	3293601/21502368 S(1)
23	07/29 03:59:42 PM	OOSeq	00:00:01	1/30244 S(2)
24	07/29 03:59:46 PM	Frame Loss	00:00:44	2218467/23720835 S(1)
25	07/29 04:00:27 PM	Frame Loss	00:00:27	1408548/24927827 S(2)
26	07/29 04:00:31 PM	Frame Loss	00:01:22	4157765/27878600 S(1)
27	07/29 04:00:55 PM	Frame Loss	00:00:03	198200/25126027 S(2)
28	07/29 04:00:59 PM	Frame Loss	00:00:59	3105585/28231612 S(2)
29	07/29 04:01:43 PM	OOSeq	00:00:01	15204/45448 S(2)
30	07/29 04:01:43 PM	OOSeq	00:00:01	15118/45331 S(1)
31	07/29 04:01:44 PM	Jitter > 2.0 ms	00:00:01	22.55732 ms S(2)
32	07/29 04:01:44 PM	Jitter > 2.0 ms	00:00:01	22.55732 ms S(1)
33	07/29 04:01:54 PM	Frame Loss	00:01:16	5698234/33576834 S(1)
34	07/29 04:02:00 PM	Frame Loss	00:01:06	5053936/33285548 S(2)
35	07/29 04:03:07 PM	Frame Loss	00:00:02	230840/33516388 S(2)
36	07/29 04:03:10 PM	Frame Loss	00:00:35	2430890/35947278 S(2)
37	07/29 04:03:11 PM	Frame Loss	00:00:49	2728807/36305641 S(1)
38	07/29 04:03:46 PM	Frame Loss	00:00:14	355688/36302966 S(2)
39	07/29 04:03:59 PM	RX Rate < 4750.0 Mbit/s	00:00:01	4354.34 Mbit/s S(2)
40	07/29 04:03:59 PM	Frame Loss > 1.0E-04	00:00:01	8.3E-02 S(2)
41	07/29 04:03:59 PM	RX Rate < 4750.0 Mbit/s	00:00:01	4354.32 Mbit/s S(1)

ID	Start Time	Event	Duration	Details
42	07/29 04:03:59 PM	Frame Loss > 1.0E-04	00:00:01	8.3E-02 S(1)
43	07/29 04:03:59 PM	Service 1 Fail		1 Service 1
44	07/29 04:03:59 PM	Service 2 Fail		2 Service 2
45	07/29 04:03:59 PM	Test Stopped		 FAIL