



# FTBx-8870 Report

| uw-forks-bacc |

PASS

|                |                        |
|----------------|------------------------|
| Report Header: | EXFO Inc.              |
| Report Title:  | uw-forks-bacc          |
| Report Date:   | 11/17/2020 11:39:10 AM |
| Type:          | EtherSAM (Y.1564)      |

## Job Information

|                  |                      |
|------------------|----------------------|
| Job ID:          | RTASK1661679         |
| Circuit ID:      | 04.KXFS.525726..CNTY |
| Contractor Name: |                      |
| Customer Name:   | uw-forks-bacc        |
| Operator Name:   | danielh              |
| Comment:         |                      |

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## SUMMARY

### Results Summary

| Test Status                       |                        |
|-----------------------------------|------------------------|
| Service Configuration Test Status | Completed, Pass        |
| Service Performance Test Status   | Completed, Pass        |
| Pass/Fail Verdict                 | PASS                   |
| Start Time                        | 11/17/2020 11:24:37 AM |
| 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         | 0.11507         | 9.43852          | 449.99                  | 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         | 0.10395         | 10.21757         | 450.00                  | PASS            |

|                          |                      |
|--------------------------|----------------------|
| <b>VLAN Preservation</b> | No Mismatch Detected |
|--------------------------|----------------------|

| RX Power Level       |       |      |
|----------------------|-------|------|
|                      | Min   | Max  |
| Power Range (dBm)    | -15.0 | 0.5  |
| RX Power Level (dBm) | -2.8  | -2.7 |

| RX Frequency           |                     |                     |
|------------------------|---------------------|---------------------|
|                        | Max Negative Offset | Max Positive Offset |
| Frequency Offset (ppm) | -0.6                | 0.0                 |

## 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**

| <b>Alarm</b> | <b>Seconds</b> |
|--------------|----------------|
| LOC          | 0              |

**IP/UDP/TCP**

| <b>Errors</b> | <b>Seconds</b> | <b>Count</b> | <b>Rate</b> |
|---------------|----------------|--------------|-------------|
| IP Checksum   | 0              | 0            | 0.00E00     |
| UDP Checksum  | 0              | 0            | 0.00E00     |
| TCP Checksum  | 0              | 0            | 0.00E00     |
| Total         |                | 0            |             |

## Setup Summary

|                         |                   |
|-------------------------|-------------------|
| <b>Application Type</b> | EtherSAM (Y.1564) |
|-------------------------|-------------------|

| Interface             | Port 1   |
|-----------------------|----------|
| <b>Interface/Rate</b> | 10GE LAN |
| <b>Connector</b>      | SFP+     |

|                     |      |
|---------------------|------|
| <b>Flow Control</b> | None |
|---------------------|------|

### EtherSAM

|                   |         |
|-------------------|---------|
| 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                   | 00:00:20 |                          |              |

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

### Services

|                                  |        |
|----------------------------------|--------|
| Total Committed TX Rate (Mbit/s) | 450.00 |
|----------------------------------|--------|

| 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    | Random             | 450.00       | 2.00000         | 28.00000         | 1.0E-04         | --          |

## TEST RESULTS

### Ethernet Traffic

| Frame Type  | TX Count | RX Count |
|-------------|----------|----------|
| Multicast   | 0        | 23       |
| Broadcast   | 2        | 0        |
| Unicast     | 42704088 | 42704088 |
| Non-Unicast | 2        | 23       |
| Total       | 42704090 | 42704111 |

| Frame Size (Bytes) | RX Count | %    |
|--------------------|----------|------|
| < 64               | 0        | 0.0  |
| 64                 | 29297    | 0.0  |
| 65 - 127           | 1845959  | 4.3  |
| 128 - 255          | 3757558  | 8.7  |
| 256 - 511          | 7511927  | 17.5 |
| 512 - 1023         | 15030374 | 35.1 |
| 1024 - 1518        | 14528996 | 34.0 |
| > 1518             | 0        | 0.0  |
| Total              | 42704111 |      |

## 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         | 0.11507         | 9.09558          | PASS    | 224.99                  |
| 2-75%CIR        | 0.0E-00         | 0.10419         | 9.09134          | PASS    | 337.49                  |
| 3-90%CIR        | 0.0E-00         | 0.09354         | 9.23702          | PASS    | 404.99                  |
| CIR             | 0.0E-00         | 0.08490         | 9.43852          | PASS    | 449.99                  |

### Service Performance Test

#### Service 1 : Service 1

|                     | Average | Minimum   | Maximum  | Estimate |
|---------------------|---------|-----------|----------|----------|
| Throughput (Mbit/s) | 450.00  | 449.97    | 450.02   | N/A      |
| Jitter (ms)         | 0.01699 | < 0.00001 | 0.10395  | 0.01396  |
| Latency (ms)        | 9.01496 | 8.96351   | 10.21757 | 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

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|                                  |         |
|----------------------------------|---------|
| Layer Mode                       | Mixed   |
| IP Version                       | IPv4    |
| Global Pass/Fail Verdict         | Enabled |
| Total Committed TX Rate (Mbit/s) | 450.00  |

## Service 1

### Service Profile

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

### SLA Parameters

|                      |          |
|----------------------|----------|
| Information Rate     |          |
| CIR (Mbit/s)         | 450.00   |
| 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:D8 | 10.112.0.1 / 255.255.255.0 | 49184    |
| Destination | 00:03:01:10:1D:1B | 10.112.0.11                | 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:D8     |
| Source IP Address      | 10.112.0.1 (Stream 1) |
| Destination IP Address | 10.112.0.11           |

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

| Ping Results |         |               |
|--------------|---------|---------------|
| No.          | Status  | Reply Details |
| 1            | Timeout |               |
| 2            | Timeout |               |
| 3            | Timeout |               |
| 4            | Timeout |               |
| 5            | Timeout |               |
| 6            | Timeout |               |
| 7            | Timeout |               |
| 8            | Timeout |               |
| 9            | Timeout |               |
| 10           | Timeout |               |
| 11           | Timeout |               |
| 12           | Timeout |               |
| 13           | Timeout |               |
| 14           | Timeout |               |
| 15           | Timeout |               |
| 16           | Timeout |               |
| 17           | Timeout |               |
| 18           | Timeout |               |
| 19           | Timeout |               |
| 20           | Timeout |               |
| 21           | Timeout |               |
| 22           | Timeout |               |
| 23           | Timeout |               |

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| 24 | Timeout |  |
| 25 | Timeout |  |
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| 30 | Timeout |  |
| 31 | Timeout |  |
| 32 | Timeout |  |
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| 37 | Timeout |  |
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| 66 | Timeout |  |

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| 67  | Timeout |  |
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| 239 | Timeout |  |
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| 322 | Timeout |  |
| 323 | Timeout |  |
| 324 | Timeout |  |

|     |              |                                             |
|-----|--------------|---------------------------------------------|
| 325 | Timeout      |                                             |
| 326 | Timeout      |                                             |
| 327 | Timeout      |                                             |
| 328 | Timeout      |                                             |
| 329 | Timeout      |                                             |
| 330 | Timeout      |                                             |
| 331 | Timeout      |                                             |
| 332 | Successful   | IP=10.112.0.11, Bytes=32, Time=9 ms, TTL=63 |
| 333 | Successful   | IP=10.112.0.11, Bytes=32, Time=9 ms, TTL=63 |
| 334 | Successful   | IP=10.112.0.11, Bytes=32, Time=9 ms, TTL=63 |
| 335 | Successful   | IP=10.112.0.11, Bytes=32, Time=9 ms, TTL=63 |
| 336 | Successful   | IP=10.112.0.11, Bytes=32, Time=9 ms, TTL=63 |
| 337 | Successful   | IP=10.112.0.11, Bytes=32, Time=9 ms, TTL=63 |
| 338 | Successful   | IP=10.112.0.11, Bytes=32, Time=9 ms, TTL=63 |
| 339 | Successful   | IP=10.112.0.11, Bytes=32, Time=9 ms, TTL=63 |
| 340 | Successful   | IP=10.112.0.11, Bytes=32, Time=9 ms, TTL=63 |
| 341 | Successful   | IP=10.112.0.11, Bytes=32, Time=9 ms, TTL=63 |
| 342 | User aborted |                                             |

### Ping Statistics

|                                     |      |
|-------------------------------------|------|
| <b>Packets Transmitted</b>          | 341  |
| <b>Packets Received</b>             | 10   |
| <b>Percentage Lost (%)</b>          | 97.1 |
| <b>Minimum Round Trip Time (ms)</b> | 9    |
| <b>Maximum Round Trip Time (ms)</b> | 9    |
| <b>Average Round Trip Time (ms)</b> | 9    |

### Trace Route

|                      |      |
|----------------------|------|
| <b>Timeout (ms)</b>  | 4000 |
| <b>Max Hop Count</b> | 128  |

## SYSTEM INFORMATION

|                                   |                          |
|-----------------------------------|--------------------------|
| <b>Product Name</b>               | Power Blazer Series      |
| <b>Version</b>                    | Power Blazer Series 1.70 |
| <b>Module ID</b>                  | FTBx-8870                |
| <b>Slot ID</b>                    | 1                        |
| <b>Software Product Version</b>   | 1.70.0.103               |
|                                   | Power Blazer Series 1.70 |
| <b>Assembly Hardware Revision</b> | B                        |
| <b>Serial Number</b>              | 1343184                  |
| <b>Calibration Date</b>           | 4/20/2020 8:28:00 PM     |

## Pluggable Module

|                             |                                  |
|-----------------------------|----------------------------------|
| <b>Module ID</b>            | SFP+                             |
| <b>Vendor Name</b>          | WFS                              |
| <b>Part Number</b>          | WFSP-1396-10-J                   |
| <b>Serial Number</b>        | 3172922861                       |
| <b>Hardware Revision</b>    | 1.0                              |
| <b>Connector Type</b>       | LC                               |
| <b>Speed</b>                | 10G                              |
| <b>Type/Compliance Code</b> | LR, 10.0 km (SMF)                |
| <b>Wavelength</b>           | 1310 nm                          |
| <b>Mode</b>                 | Single-Mode Fiber                |
| <b>Power Class</b>          | Power Class 1 Module (<= 1W max) |
| <b>Temperature (Max)</b>    | 33.6 °C                          |

## Software Options

|         |                             |          |
|---------|-----------------------------|----------|
| DS1-FDL | DS1/1.5M Facility Data Link | Disabled |
|---------|-----------------------------|----------|

|                 |                                                             |          |
|-----------------|-------------------------------------------------------------|----------|
| 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 |
| 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  | 11/17 11:24:37 AM | Test Started             |          | 2020-11-17                                                                                        |
| 2  | 11/17 11:24:41 AM | Service Configuration te |          | 2020-11-17                                                                                        |
| 3  | 11/17 11:25:15 AM | Service Performance tes  |          | 2020-11-17                                                                                        |
| 4  | 11/17 11:35:25 AM | Test Stopped             |          |  <b>PASS</b> |