

NetBlazer version 2.2

Customer Presentation

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July/2014

EXFO



Agenda

- 1 Introduction**
- 2 New features in Release 2.2
- 3 EXFO TFv
- 4 Conclusion

FTB-1 PLATFORM

THE FIELD TECH'S CHOICE



FTB-1: Portability and Flexibility

ONBOARD UTILITIES



Bluetooth Data Mover



Update Manager



Wi-Fi Wizard



Internet Explorer



Remote control



EXFO Connect

ONBOARD TEST TOOLS



Expert IPTV



EXpert IP



EXpert VoIP



Wireshark



Net Stumbler



Jperf

UNMATCHED CONNECTIVITY



2x



NetBlazer



**IT'S YOUR
CHOICE**

FTB-810



Dedicated
Transport Tester
DSn/PDH
ISDN PRI
OC 48/STM 16

FTB-810G



Dedicated
Transport Tester
DSn/PDH
ISDN PRI
OC 192/STM 64

FTB-870



Multiservice Tester
Sonet/SDH/OTN
10M to 10G
Fibre Channel:
1, 2, 4, 8, 10x
SyncE/1588
CPRI/OBSAI

FTB-880



Multiservice Tester
SONET/SDH/OTN
DSn/PDH/ISDN
10M to 10G
Fibre Channel:
1, 2, 4, 8, 10x
SyncE/1588
CPRI/OBSAI

FTB-860GL



10M to 10G
Loopback only

FTB-860



Multiservice Tester
Fibre Channel:
1, 2, 4x
SyncE/1588
CPRI/OBSAI

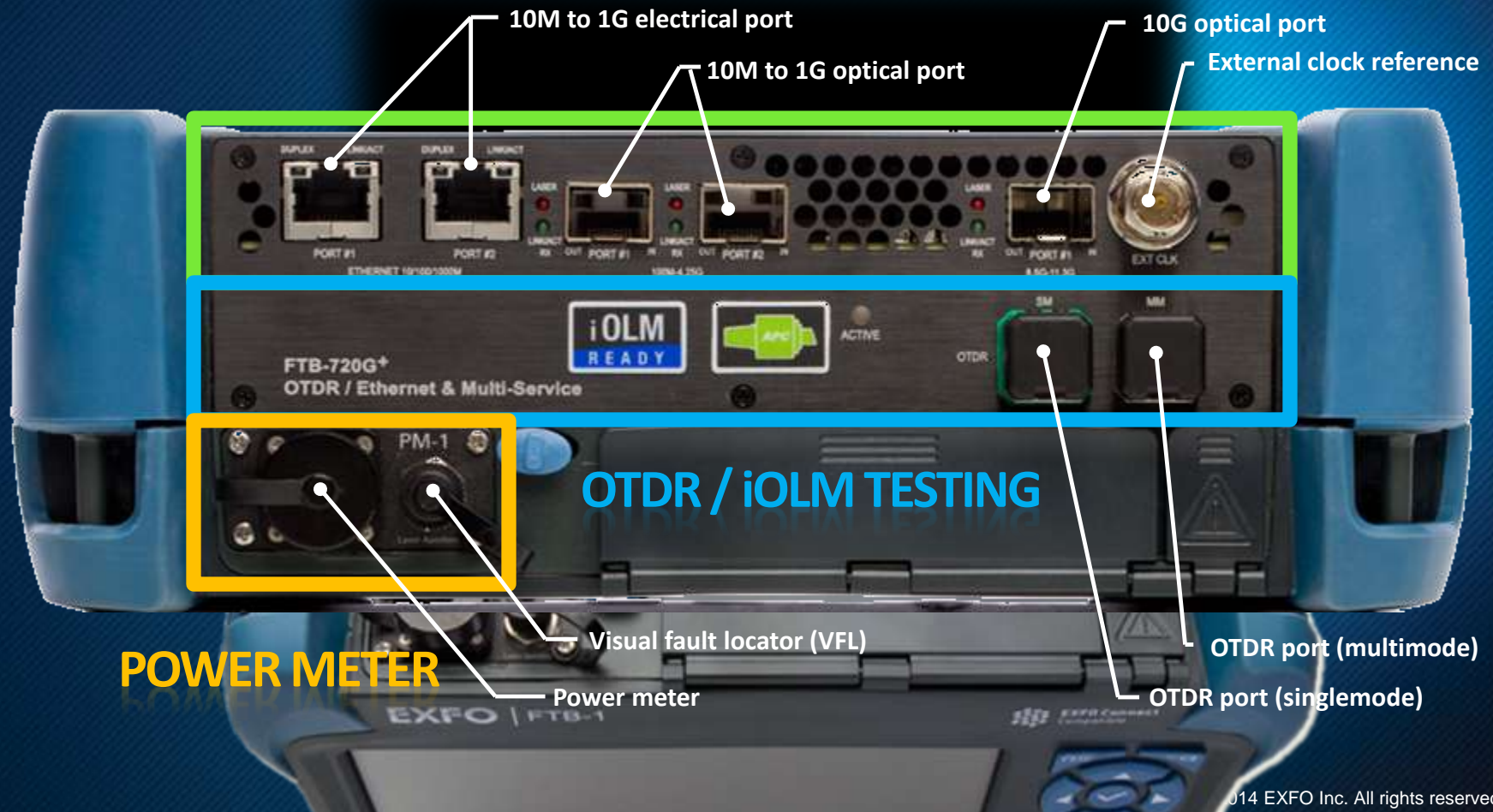
FTB-860G



10M to 10G
Fibre Channel:
1, 2, 4, 8, 10x
SyncE/1588
CPRI/OBSAI

One Solution – FTB-700G Series

COMBINING OPTICAL AND MULTISERVICE PROTOCOL TESTING



FTB-700G SERIES

WHY WAS THIS PRODUCT CREATED?



FIP-430B
Fiber Inspection Probe

Connect^{or}Max2

- › Automated pass/fail connector analyzer
- › One-touch results in <4 seconds
- › Full reports
- › Compatible with EXFO's [FIP-400B inspection probe](#)



iOLM | intelligent Optical Link Mapper

- › No training required: self-setting device
- › No trace misinterpretation thanks to a clear schematic link view
- › Link-Aware™ delivers simple, accurate fiber-optic link test results
- › Prompt diagnosis for quick, accurate identification of network issues



EtherSAM

- › SLA validation in a single test
- › Simultaneous bidirectional testing
- › Standards-based (ITU-T Y.1564)



EXFO Connect

Make your data mean business.

- › Automation and business intelligence
- › Cloud-based equipment and test data management

FTB Anywhere™

Floating Test Licenses

- › BUDGET FLEXIBILITY
- › Available anywhere, anytime and to anyone
- › Eliminates the barrier to field-testing efficiency
- › Feature-rich solution





Agenda

- 1 Introduction
- 2 New features in Release 2.2**
- 3 EXFO TFv
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DS1 SIGNALING

DS1/DS3 MULTIPATTERN

ONE-WAY LATENCY

NEW REPORTS

EthersAM ENHANCEMENTS

ADVANCED FILTERS

PACKET CAPTURE

CARRIER ETHERNET OAM

TCP THROUGHPUT

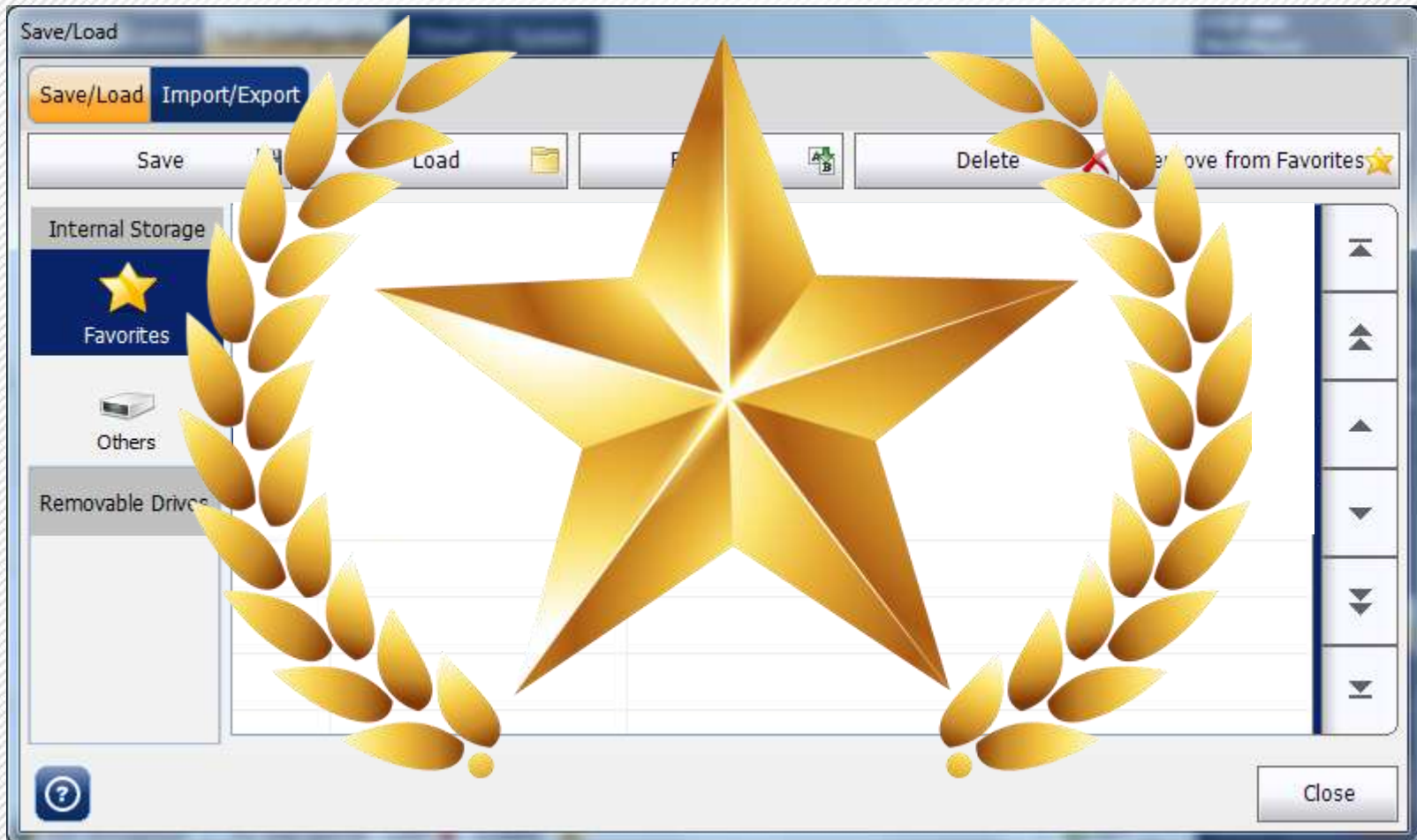


TIDAL WAVE OF FEATURES

Various **FREE** Upgrades

Other Enhancements

Favorites



Other Enhancements

More Ethernet Statistics

In load 2.0

The screenshot displays the FTB-880 NetBlazer interface with several data tables and control panels. The 'Alarms/Errors' tab is active, showing statistics for Interface, Clock, Ethernet, and BER. A blue box highlights the 'IP/UDP/TCP Errors' table, and another blue box highlights the 'Inject' button and 'Bit Error (1)' field in the bottom left. The right sidebar contains a 'Start' button and various function icons.

Interface	Alarms	Seconds
LOS		--
Frequency		--

Clock	Alarms	Seconds
LOC		--

Ethernet	Alarms	Seconds
Link Down		--

Errors	Seconds	Count	Rate
Symbol	--	--	--
Idle	--	--	--
False Carrier	--	--	--
FCS	--	--	--
Jabber	--	--	--
Oversize			
Runt	--	--	--
Undersize	--	--	--

IP/UDP/TCP Errors	Seconds	Count	Rate
IP Chksum	--	--	--
UDP Chksum	--	--	--
TCP Chksum	--	--	--

BER	Alarms	Seconds
No Traffic		--
Pattern Loss		--

Errors	Seconds	Count	Rate
Bit Error	--	--	--
Mismatch '0'	--	--	--
Mismatch '1'	--	--	--

Oversize Monitoring

Inject Bit Error (1)

FTB-880 NetBlazer

Start

Save Load Report Discover Remote

Reset Laser Inject

Setup Results Functions

EtherBERT | P1 1GE Optical LINK ↓ -- dBm | INT

Complete Error/Alarm Injection
(BER, PattLoss, FCS, Symbol & LOS)

Other Enhancements

More Ethernet Statistics

Before

The screenshot displays the FTB-880 NetBlazer interface with several sections:

- Summary** (selected), Alarms/Errors, Traffic, and Logger tabs.
- Interface Alarms**: A table with columns 'Alarms' and 'Seconds'. It lists 'LOS' and 'Frequency', both with '--' in the Seconds column.
- Clock Alarms**: A table with columns 'Alarms' and 'Seconds'. It lists 'LOC' with '--' in the Seconds column.
- IP/UDP/TCP Errors** (highlighted with a blue box): A table with columns 'Errors', 'Seconds', 'Count', and 'Rate'. It lists 'IP Chksum', 'UDP Chksum', and 'TCP Chksum', all with '--' in the Seconds, Count, and Rate columns.
- BER Alarms**: A table with columns 'Alarms' and 'Seconds'. It lists 'No Traffic' and 'Pattern Loss', both with '--' in the Seconds column.
- BER Errors**: A table with columns 'Errors', 'Seconds', 'Count', and 'Rate'. It lists 'Bit Error', 'Mismatch '0'', and 'Mismatch '1'', all with '--' in the Seconds, Count, and Rate columns.
- Ethernet Alarms**: A table with columns 'Alarms' and 'Seconds'. It lists 'Link Down' with '--' in the Seconds column.
- Ethernet Errors**: A table with columns 'Errors', 'Seconds', 'Count', and 'Rate'. It lists 'Symbol', 'Idle', 'False Carrier', 'FCS', 'Jabber', 'Oversize', 'Runt', and 'Undersize', all with '--' in the Seconds, Count, and Rate columns.
- Injection Controls** (highlighted with a blue box): An 'Inject' button, a dropdown menu set to 'Bit Error (1)', and an upward arrow button.
- Footer**: Shows 'EtherBERT', 'P1 1GE Optical LINK' with a red down arrow, '-- dBm', a warning icon, and 'INT' with a green up arrow.
- Right Panel**: Contains a 'Start' button, 'Save Load', 'Report', 'Discover Remote', 'Reset', 'Laser', and 'Inject' buttons, and a 'Setup' button.

Complete Error/Alarm Injection
(BER, PattLoss, FCS, Symbol and LOS)

Frequency Offset

Ability to modify the frequency offset
up to +/- 120 ppm

The screenshot shows the FTB-880 NetBlazer configuration interface. The main window is titled "ftb1-646206 - TightVNC Viewer". The interface is divided into several sections:

- Test Applications:** Test Applications, Test Configurator (selected), Timer, System.
- Port 1 - 1GE Optical:** Configuration for the optical port. It includes a LINK status indicator (up arrow), an Auto-Negotiation checkbox (checked), Duplex settings (Full Duplex), and Flow Control settings (None).
- Physical Interface:** A table showing laser status and power levels.
- TX Frequency:** Configuration for the transmit frequency, including a Frequency (MHz) field (1250.138750), an Offset (ppm) field (111.0), and a Step Size (ppm) field (1.0).
- RX Frequency:** Configuration for the receive frequency, including a table for Max Offset (ppm).

Laser	TX Power (dBm)	Wavelength (nm)	RX Power (dBm)	Min RX Power (dBm)	Max RX Power (dBm)
ON	-5.5	850 nm	-5.9	-5.9	-5.9

TX Frequency		RX Frequency			
Frequency (MHz)	Offset (ppm)	Frequency (MHz)	Offset (ppm)	Max Offset (ppm)	
1250.138750	111.0	1250.138750	111.0	Negative	Positive
				-0.2	111.2

At the bottom of the interface, there are tabs for Interface, Network, and SFP/SFP+. The status bar at the bottom shows "Traffic Gen & Mon", "P1 1GE Optical", "LINK" (up arrow), "-5.9 dBm", and "INT".

Report Generation

New Traffic Generation

Now with 16 Streams and Per-Stream Statistics!

All Statistics are displayed
on each page!

Summary
Streams
Traffic
Alarms/Errors
Logger

FTB-860G
NetBlazer

Stream	TX Rate (%)	RX Rate (%)			
		Current	Average	Minimum	Maximum
1	0.0126	0.0126 ✔	0.0126	0.0126	0.0126
2	1.0000	0.5357 ✔	0.9922	0.1357	1.9358
3	0.3972	0.3970 ✔	0.3972	0.3970	0.3981
4	10.0000	9.9999 ✔	10.0000	9.9998	10.0001
5	8.0000	8.0000 ✔	8.0000	7.9998	8.0000
6	15.0000	14.9999 ✔	14.9999	14.9998	15.0001
7	20.0000	19.9999 ✔	20.0000	19.9997	20.0002
8	5.0000	4.9999 ✔	4.9999	4.9999	5.0000
9	3.0000	3.0000 ✔	3.0000	2.9999	3.0000
10	9.0000	9.0000 ✔	9.0000	8.9998	9.0000
11	6.0000	6.0000 ✔	6.0000	5.9998	6.0000
12	8.0000	8.0000 ✔	8.0000	7.9998	8.0000
13	4.0000	4.0000 ✔	3.9999	3.9999	4.0000
14	5.0000	4.9999 ✔	4.9999	4.9999	5.0000
15	2.0000	2.0000 ✔	1.9999	1.9999	2.0000
16	--	--	--	--	--
Total	96.4098	95.9453			

Thresholds

Throughput
Jitter
Latency
Frame Loss / Out-of-Sequence
MPLS

Stop

Traffic Gen & Mon
P1 1GE Optical LINK ↑
-5.8 dBm ⚠
INT ⊕

Setup
Results
Functions

Save Load
Report
Discover Remote

No Alarm

Reset
Laser

0d:00:02:29

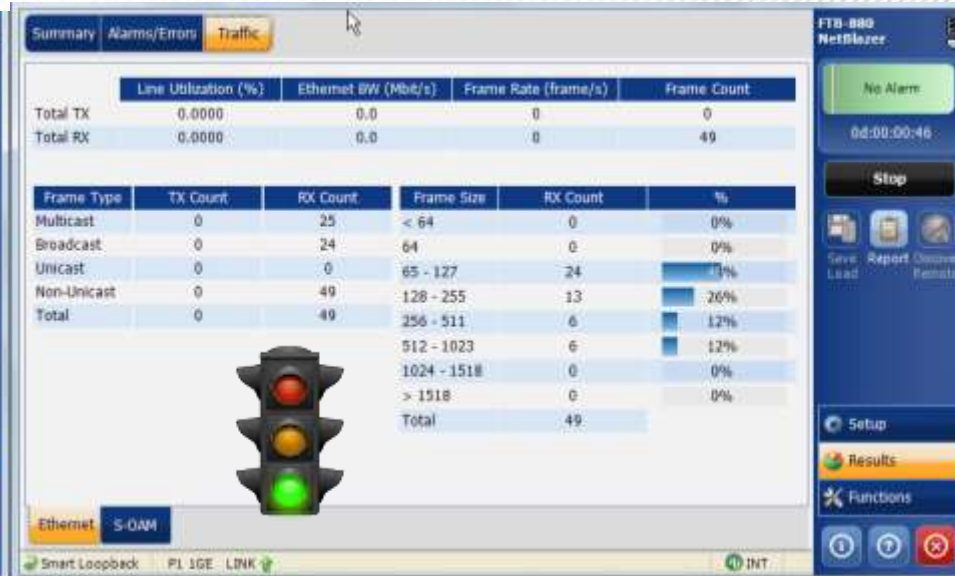
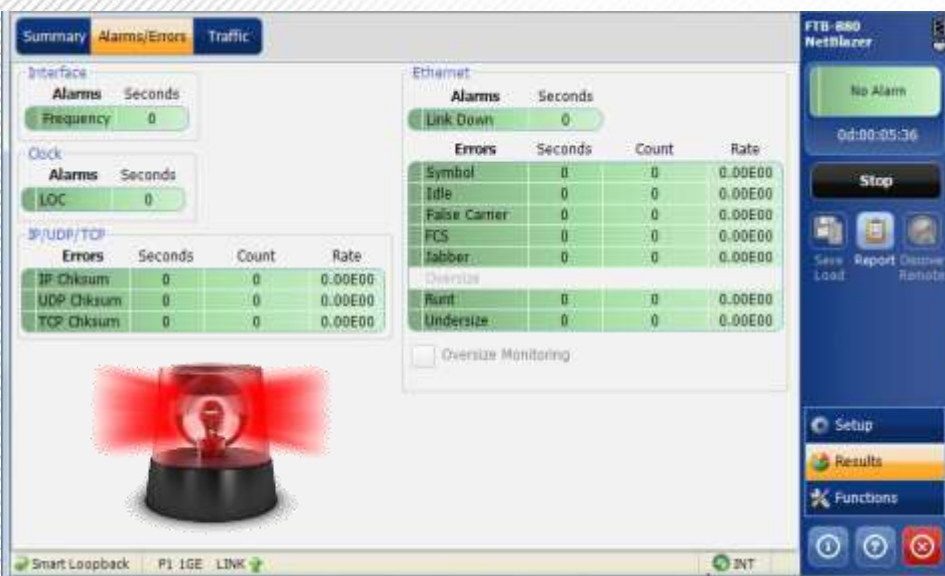
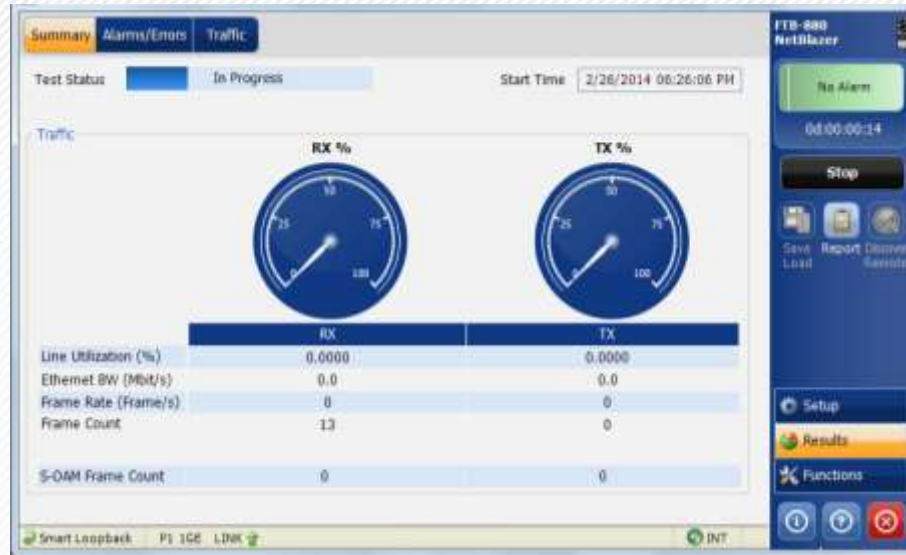
VLANs

NOT 1, NOT 2 but NOW 3 VLANs

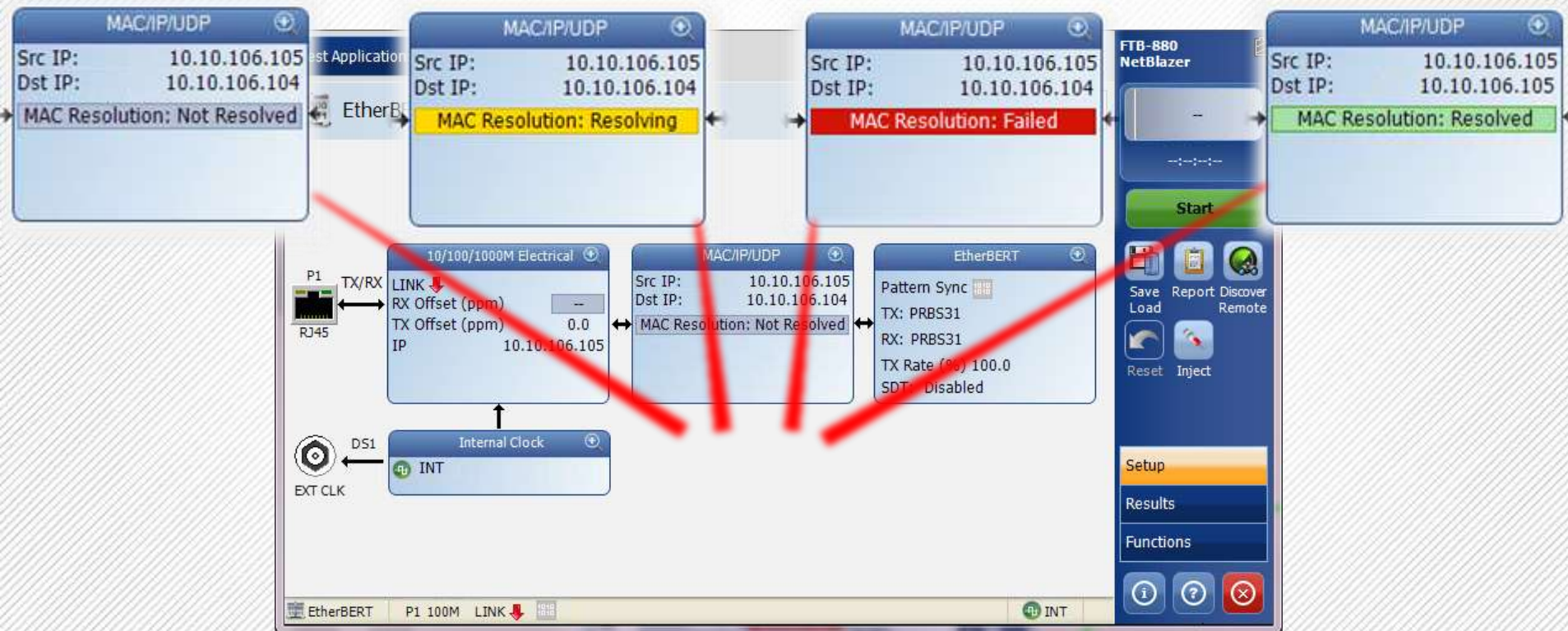
The screenshot shows the configuration page for 'Port 1 - 10/100/1000M Electrical' in the FTB-880 NetBlazer interface. The 'VLAN' section is expanded, showing a table of three VLAN configurations. The 'VLAN Tag' is set to 3. The three VLANs are: E-VLAN (VLAN ID 2, Priority 0, Type 0x9100), S-VLAN (VLAN ID 2, Priority 0, Type 0x88A8), and C-VLAN (VLAN ID 2, Priority 0, Type 0x8100). The E-VLAN, S-VLAN, and C-VLAN labels and their corresponding rows are circled in green, blue, and red respectively.

	E-VLAN	S-VLAN	C-VLAN
VLAN ID	2	2	2
Priority	0 (000 - Low...)	0 (000 - Low...)	0 (000 - Low...)
Type	0x9100	0x88A8	0x8100
Drop Eligible	No	No	No

SMART LOOPBACK TWEAKS



Test Configurator



Visual Frame Display

Choose your protocol,
from basic to advanced

The screenshot displays the FTB-880 NetBlazer software interface. At the top, there are tabs for 'Test Applications', 'Test Configurator', 'Timer', and 'System'. The 'Test Configurator' tab is active, showing a 'Streams' section with a 'Modify Frame Structure' button and a 'Couple with Interface' checkbox. Below this, there are tabs for 'Preamble/SFD', 'MAC', 'VLAN', 'MPLS', 'IPv6', 'TCP', 'Payload', and 'FCS'. The 'IPv6' tab is selected, showing a configuration table and various input fields.

IPv6		
Ver.	Traffic Class	Flow Label
	0x00	0
Payload Length	Next Header	Hop Limit
--	--	128
Source IPv6 Address		
--		
Destination IPv6 Address		
FE80:::6A69		

Source Link-Local IPv6 Address: FE80:0000:0000:0000:021C:AFF:FECC:CCCC

Source Global IPv6 Address: --

IPv6 Destination Address: FE80:0000:0000:0000:0203:01FF:FEF:6A69

Resolve MAC Address: --

Source IP Multiplier: --

Hop Limit: 128

Flow Label: 0

TOS/DS (Traffic Class): 0x00

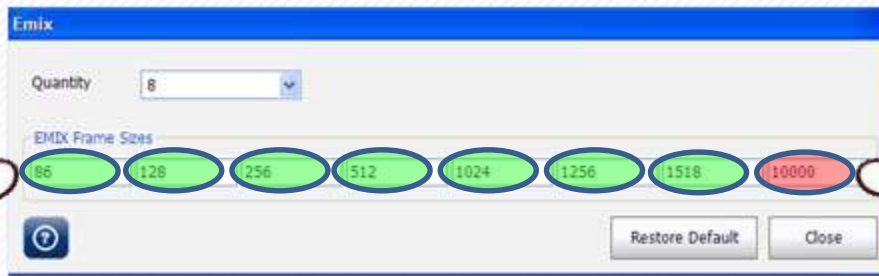
TOS/DS Config...

Buttons: Profile, MAC/IP/UDP, Global

Footer: Traffic Gen & Mon, P1 100M, LINK, INT

Right sidebar: FTB-880 NetBlazer, Start, Save Load, Report Discover Remote, Reset, Setup, Results, Functions, Info, Help, Close.

EtherSAM Enhancements



Full RFC frame sizes

Jumbo frame size



Visual Frame Display (VFD)

The VFD enables us to go deeper into the framing and to adjust to our heart's content

The screenshot displays the 'Test Configurator' tab of the FTB-880 NetBlazer interface. The 'Streams' section is active, showing a 'Modify Frame Structure' panel with a 'Couple with Interface' checkbox. Below this, the 'MAC' section is highlighted, containing fields for 'Destination MAC Address', 'Source MAC Address', 'Destination MAC Address', and 'EtherType'. The 'Source MAC Address' field is set to '00:1C:AF:CC:CC:CC' and is being pointed to by a hand icon with a green callout box labeled 'SRC mac modification'. The 'EtherType' field is set to '0x010B' and is also being pointed to by a hand icon with a green callout box labeled 'EtherType modification'. The interface includes a 'Start' button, a 'Reset' button, and a 'Setup' button. The bottom status bar shows 'Traffic Gen & Mon', 'P1 100M', 'LINK' with an up arrow, and 'INT'.

MAC	Value
Destination MAC Address	00:03:01:FD:6A:69
Source MAC Address	00:1C:AF:CC:CC:CC
Destination MAC Address	00:03:01:FD:6A:69
EtherType	0x010B



TCP Throughput

ExacTCP

NetBlazer Series Now Equipped with TCP Throughput Test App Application!

Simple One-Page Test Results!

The screenshot displays the 'Summary' tab of the ExacTCP test results. The interface includes a navigation bar with 'Summary', 'Alarms/Errors', 'Traffic', and 'Logger'. The main content area shows test status, start time, and TCP throughput details. A 'Throughput' gauge is visible on the right. A table lists TCP throughput metrics, with a blue arrow pointing to the 'Maximum' column. The bottom status bar shows 'TCP Throughput' and 'P1 1GE Optical LINK'.

FTB-880 NetBlazer

Summary Alarms/Errors Traffic Logger

Test Status -- Start Time --

TCP Throughput

TCP Connection Status --

Throughput

Total

Transmitted Frames --

Re-transmitted Frames --

Efficiency(%) --

Window Size Unit MBytes Throughput Threshold (%) 100.0 -- %

	Last	Minimum	Maximum	Average
TCP Throughput (%)	--	--	--	--
Window Size (MBytes)	--	--	--	--
Round Trip Latency (ms)	--	--	--	--

EthernetTraffic

	Line Utilization (%)	Ethernet BW (Mbit/s)	Frame Rate (frame/s)	Frame Count
Total TX	--	--	--	--
Total RX	--	--	--	--

Start

Save Load Report Discover Remote



Reset Laser

Setup

Results

Functions

TCP Throughput P1 1GE Optical LINK -- dBm INT



The NetBlazer Series Now Supports TCP Throughput Testing

Automated BERT

DS1 Feature

Legacy Anyone?

Summary Alarms/Errors Performance Monitoring Logger

Test Status **In Progress** ✖ FAIL Start Time 7/8/2014 12:34:52 AM

Multi-Pattern BER

Pattern	Pattern Loss		Bit Error	
	Seconds	Seconds	Count	Rate
1111	0	0	0	0.00E00
1in8	0	0	0	0.00E00
2in8	0	0	0	0.00E00
3in24	0	0	0	0.00E00
ORSS	0	0	0	0.00E00
All	0	0	0	0.00E00

Bit Error Rate

Bit Error Manual Amount 1 Inject

Restart Sequence Threshold 1.0E-12

all the results you need

FTB-880 NetBlazer

FAIL LOS 0d:00:03:09

Stop

Save Load Report Reset Inject

Setup Results Functions

P1 TX/RX: DS1 -- dBdsx -- Vpp INT

Enable

on

L2 Transparency Testing

What Is a Layer-2 Transparency Test?

- › Simulates the processing of layer-2 control protocol (L2CP) frames through a network
- › **Control frames** interact with network devices while **data frames** pass through a network without interacting with the devices that comprise the network
- › Example of control protocols: spanning tree (STP, RSTP, MSTP), link aggregation (LACP), Cisco's proprietary protocols (CDP, VTP, PagP, etc.)
- › Verifies transparent forwarding of L2CP frames through switched and/or routed networks

L2CP Frames

- › Parameters used to generate L2CP frames:
 - › **Destination MAC address:** Always set to a multicast value. This value depends on L2CP and how it is used.
 - › **Protocol identifier:** Depending on the protocol, it is typically a combination of the following: frame format, EtherType or LLC (depending on format) and subtype.
 - › In certain cases: **frame size** and **frame rates**.

Destination MAC Address	Frame Format	EtherType or LLC	Subtype
-------------------------	--------------	------------------	---------

Example:

Protocols	Protocol Identifier	Destination MAC Address
CDP	Frame format: 802.3 SNAP Ethertype = 0x2000; OUI=0x00000C	01-00-0C-CC-CC-CC

L2 Transparency on the NetBlazer

Example

Protocols	Protocol Identifier	Destination MAC Address
CDP	Frame format: 802.3 SNAP EtherType = 0x2000; OUI=0x00000C	01-00-0C-CC-CC-CC

The screenshot shows the NetBlazer interface with the 'Test Configurator' tab selected. The 'Streams' section is active, and the 'MAC' tab is chosen. The configuration fields are as follows:

- Destination MAC Address: 01:00:0C:CC:CC:CC
- Source MAC Address: 0A:12:4C:44:33:11
- EtherType: 0x2000
- OUI: User-Defined (0x00000C)

The 'Destination MAC Address' field is highlighted with a red box. The 'EtherType' and 'OUI' fields are also highlighted with red boxes. The 'Resolve MAC Address' checkbox is unchecked. The interface includes a 'Start' button, 'Save Load', 'Report Discover Remote', and 'Reset' buttons. The status bar at the bottom shows 'Traffic Gen & Mon', 'P1 100M', and 'LINK'.



Layer-2 Transparency



CDP
PVST+
RDP

5 FRAMES SENT

5 FRAMES RCVD



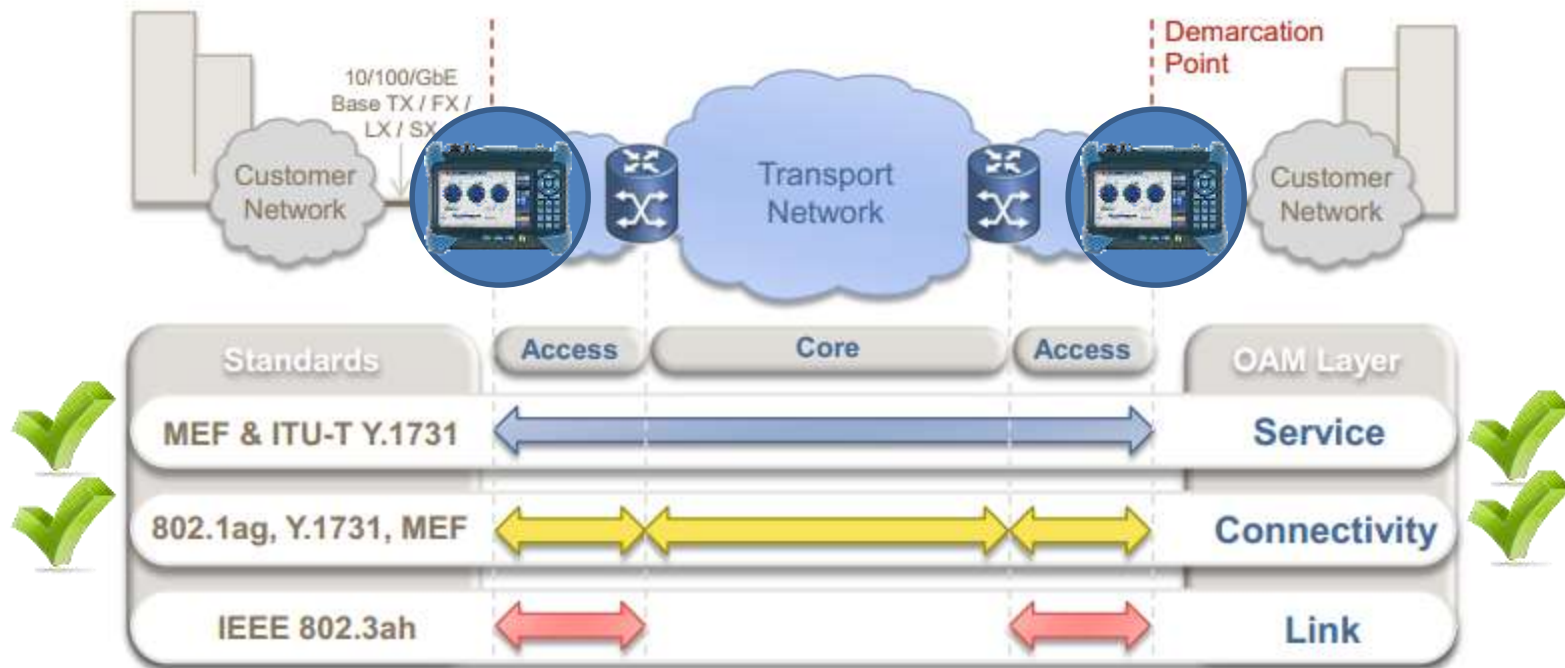
The NetBlazer Series Now Supports Layer-2 Transparency Tests

Carrier Ethernet OAM



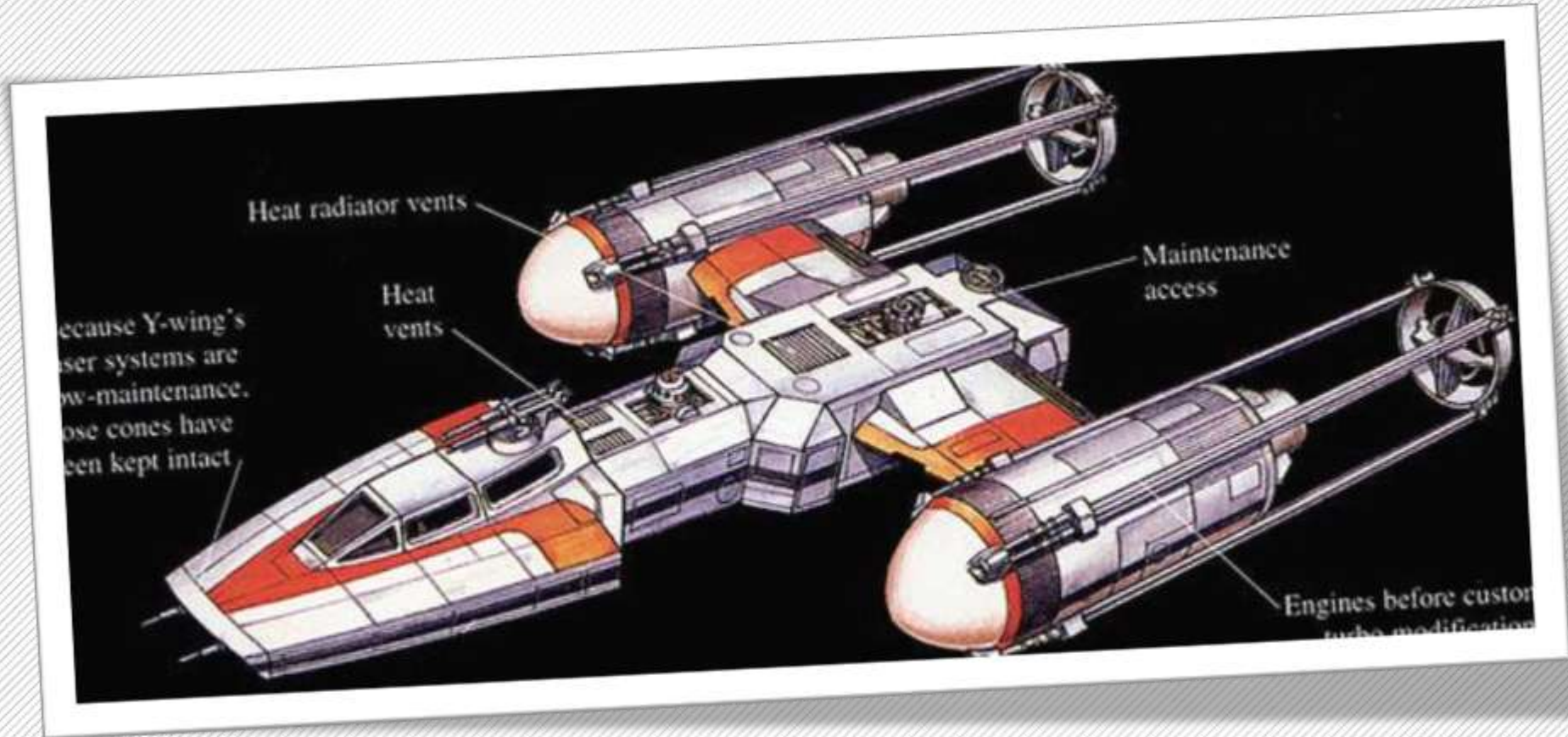
Why S-OAM?

Service Operations and Maintenance



OAM Layer	Function/Focus
Service	End-to-end service (customer) view, reflected in SLAs
Connectivity	Network and service connectivity and performance monitoring, topology-aware, multidomain
Link	Focused on single-hop links, 1 st mile transport

It's NOT the new Y wing!



ITU-T Y.1731 & MEF

Y.1731 which
unparalleled
service-level
measure SLA
standard for

		Y.1731	MEF
Fault Management	Continuity Check	✓	✓
	Loopback	✓	✓
	Link Trace	✓	✓
	RDI	✓	✓
	AIS	✓	✓
	CSF	✓	✓
	LCK	✓	✓
	Test	✓	✓
Performance Management	Frame Delay	✓	✓
	Frame Delay Variation	✓	✓
	Frame Loss	✓	✓
	Synthetic Loss	✓	✓

customer
accurately
the facto

TH



Y

802.1ag

802.1ag
multiple
the con

PO

		Y.1731	MEF	802.1ag
Fault Management	Continuity Check	✓	✓	✓
	Loopback	✓	✓	✓
	Link Trace	✓	✓	✓
	RDI	✓	✓	✓
	AIS	✓	✓	
	CSF	✓	✓	
	LCK	✓	✓	
	Test	✓	✓	
Performance Management	Frame Delay	✓	✓	
	Frame Delay Variation	✓	✓	
	Frame Loss	✓	✓	
	Synthetic Loss	✓	✓	

sists of
der to check

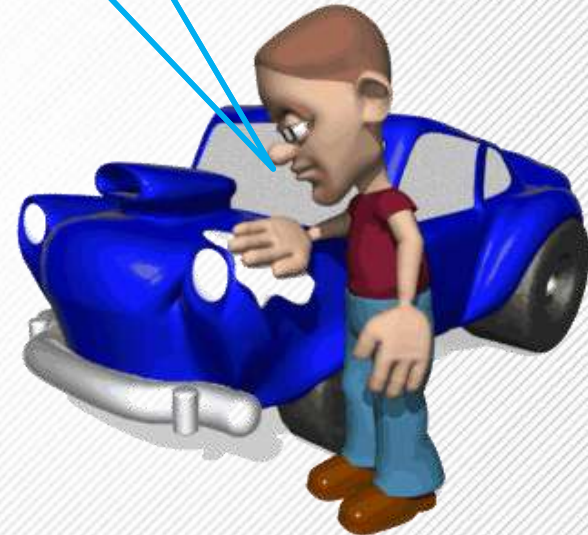
nily

Whats a CCM

Continuity Check Message

HELLOOOO

What's up?
IT'S ALL GOOD!



ETH-LT →

MEP

MIP

MIP

MIP

MIP

MEP

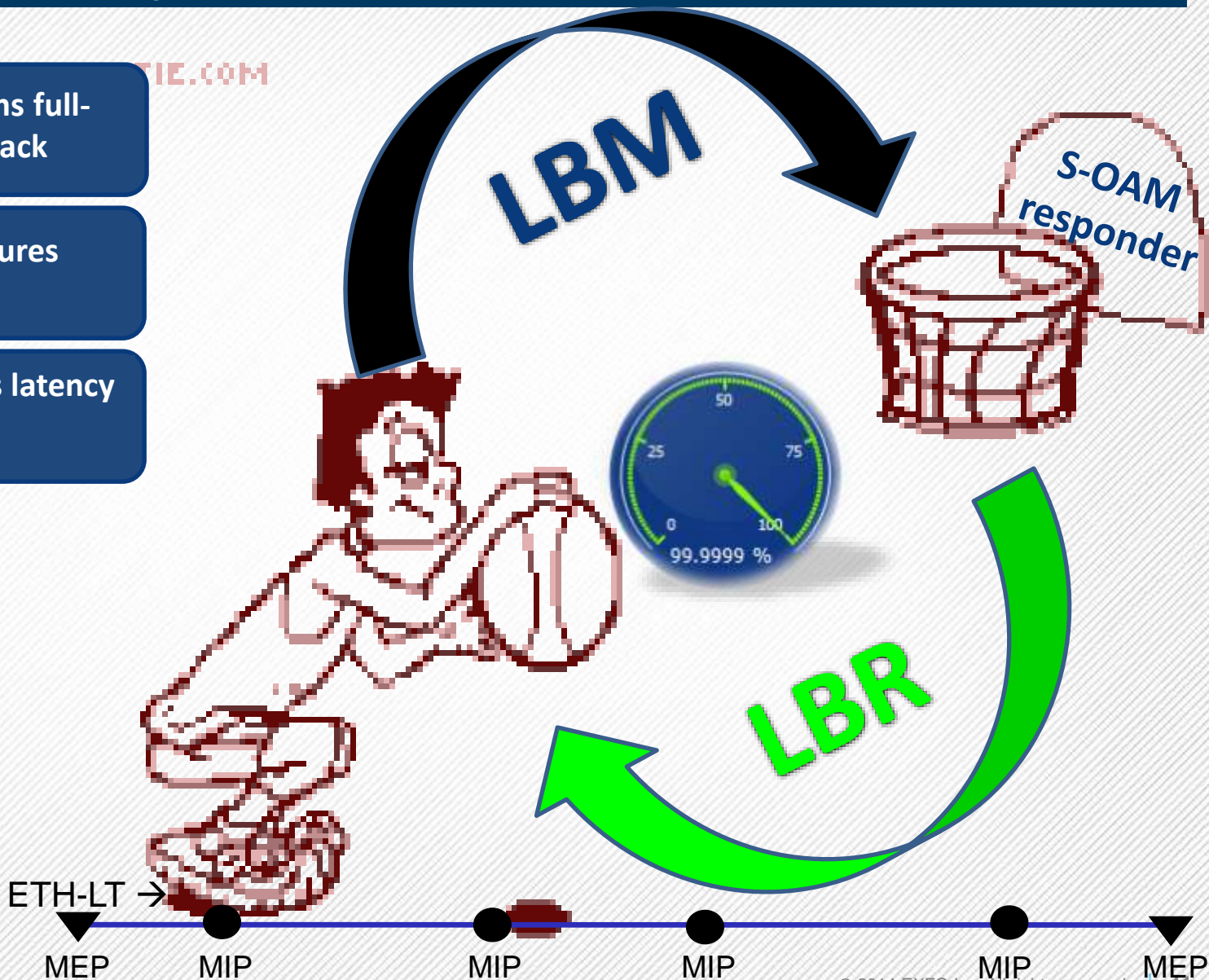
What Is an LBM?

Loopback Message

NetBlazer performs full-line-rate loopback

NetBlazer measures frame loss

NetBlazer measures latency



S-OAM Link Trace

Trace Route Anyone?

Similar to Trace Route

But, we now find the MEP/MIP and its MAC address, as well as the terminating MEP.

ftb1-646206 - TightVNC Viewer

S-OAM Link Trace Ping & Trace Route

Link Trace


TTL Link Trace ●

Result

TTL	MEP/MIP MAC Address	Forward	Term MEP	Count
				TX LTM 0
				RX LTR 0
				LTR Timeout 0
				Invalid LTR 0

Last Link Trace Status

Carrier Ethernet OAM P1: 1GE Optical LINK ↑ -5.9 dBm ⚠ INT



The NetBlazer Series
Now Supports
Carrier Ethernet OAM

Packet Capture

Advanced Filters and Packet Capture

- › Looking to capture data from electrical or optical ports? With NetBlazer, it is now possible.
- › 10 Base-T to 10 GigE
- › BERT
- › TGEN
- › Through mode (one direction at a time)
- › SyncE
- › 1588 PTP
- › OAM

- › Advanced filtering
- › Four filters
- › Each filter has four choices with operands
- › Perfect for pinpointing issues or seeing distinct traffic
- › Supports up to 16 distinct choices and values

The screenshot displays the NetBlazer configuration interface. At the top, there are ten filter slots, with slot 1 highlighted in yellow. Below the slots, there is an 'Enable' checkbox and an 'Enabled Time' field showing '00d:00:00:42'. An 'Assign to Capture' button is located on the right. The 'Filter Configuration' section contains a table with columns for 'Not Filter', 'Value', 'Mask', and 'Oper.'. The table lists four filters: IPv4 Source Address (10.8.232.105, 255.255.255.255, AND), UDP Source Port (0, 0xFFFF, AND), IPv4 Protocol (17, 0xFF, AND), and IPv4 Precedence (000, 111). Below this is the 'Filter Statistics' section, which includes a table for RX statistics and a table for error counts.

	Line Utilization (%)	Ethernet BW (Mbit/s)	Frame Rate (frame/s)	Frame Count
RX	0.000000	0.0	0	0

	Error Count		Error Count
IP Checksum	0	Jabber/Giant	0
UDP Checksum	0	Oversize	0
FCS	0	Runt	0
		Undersize	0

At the bottom of the interface, there are two tabs: 'Filters' and 'Packet Capture', with 'Packet Capture' currently selected.

Latest NetBlazer Pricing



TCP Throughput



\$1995.00



\$995.00

Packet Capture



Carrier Ethernet
OAM



\$1495.00



\$795.00

Advanced filters



Agenda

- 1 Introduction
- 2 Release 2.2 new features
- 3 EXFO TFV**
- 4 Conclusion



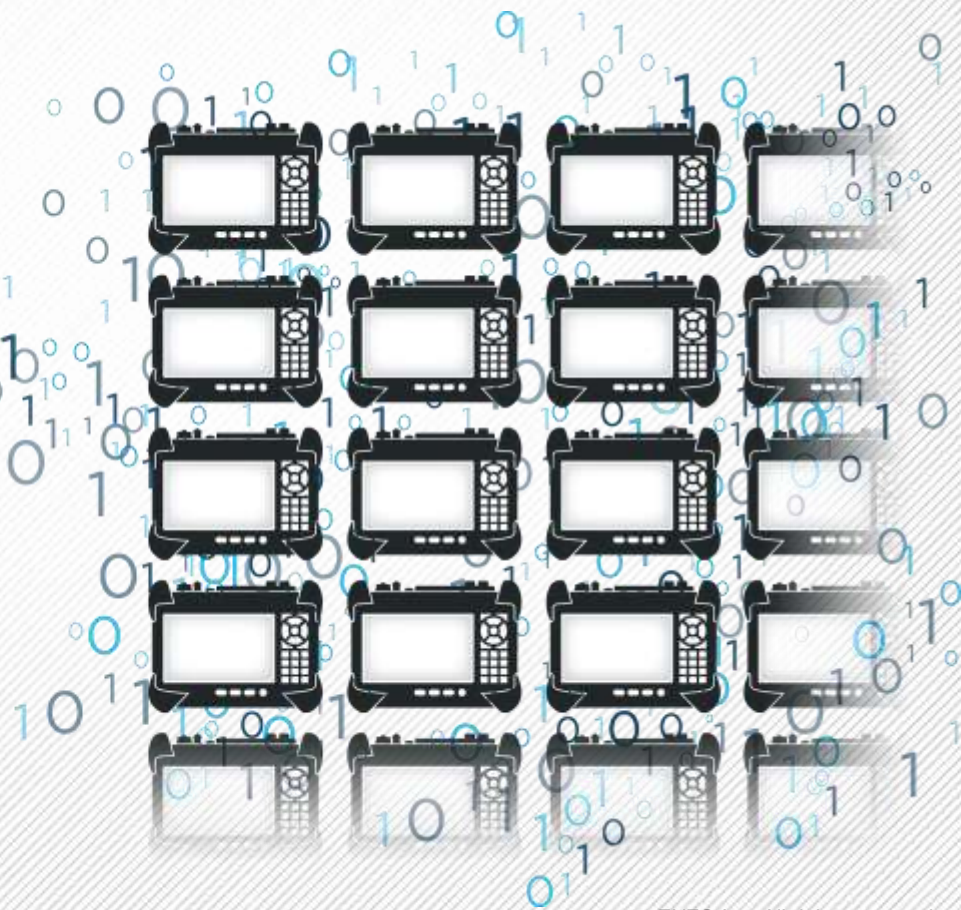
FTB Anywhere

FTB OnDemand

- › EXFO TFv is a cloud-based suite of applications focused on virtualized test functions
- › Currently, FTB Anywhere and FTB OnDemand are included under this umbrella.

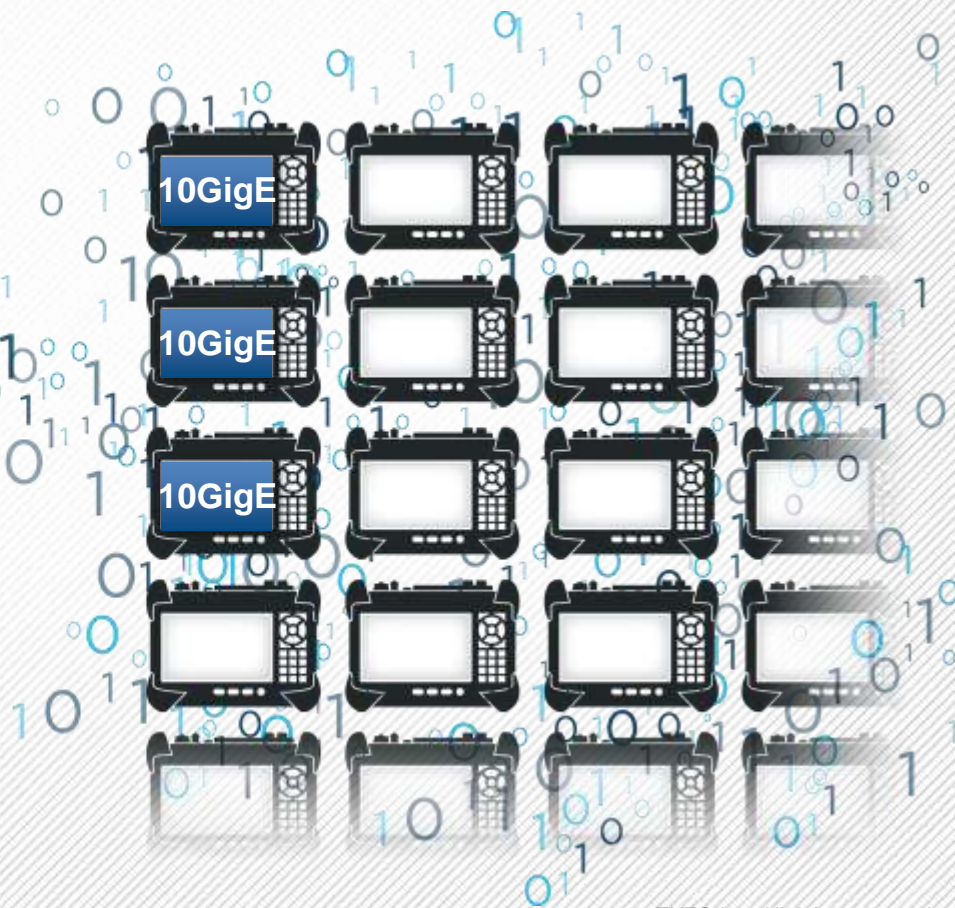
FTB Anywhere

EXFO | C_onnect



FTB Anywhere

EXFO | C_onnect



FTB OnDemand

WHAT?

Time-based SW licenses
(i.e., SW options that expire on a set date)

WHY?

Offers more flexibility in terms of managing SW options and their costs

WHERE?

Available for some (not all) SW options on the NetBlazer and Power Blazer Series of products

HOW?

The offering is activated through a special EC server owned and managed by EXFO (no EXFO Connect subscription required)

Whatever Your Choice Is...

FTB Anywhere



FTB OnDemand



- › You can say **NO** to techs not having the right tool for the job
- › You can say **NO** to filling out shipping waybills
- › You can say **NO** to packing up test tools for shipment across country
- › You can say **NO** to units damaged during shipping
- › You can say **NO** to having to ship equipment across the country using FedEx, UPS and DHL
- › Finally, you can say **NO** to having no other option but to go with the static-restrictive non-floating options offered by the competition



Agenda

- 1 Introduction
- 2 Release 2.2 new features
- 3 EXFO TFV
- 4 Conclusion**

You have what you need!

- › User-friendly and consistent GUIs across the following modules:
 - › 860/860G/870 /880 & 700G
 - › 85100G/88100NG or 88100NGE
- › Now identical feature set for modules 10G and below; providing greater flexibility and a seamless transition from the following 1G to 100G products :
 - › 860/860G/870 /880 & 700G
 - › 88100NG or 88100NGE
- › Completely revamped and fortified FTB-860/860G/870/880 modules making it easier for field technicians to carry out their daily test operations efficiently



The NetBlazer Portfolio

The Field Techs “ALL-in-ONE”



FTB-700G+
Ethernet + Optical



FTB-880

FTB-870

FTB-860G



EXFO | Connect

- > Automation and business intelligence
- > Cloud-based equipment and test data management

FTB Anywhere™
Floating Test Licenses

- > Budget flexibility
- > Available anywhere, anytime and to anyone
- > Eliminating barrier to field-testing efficiency
- > Feature-rich solution

Thank You