

Setting up the T-BERD®/MTS6000A and 6000A Platform

For a 10G LAN Layer II Ethernet Test



1. From the Systems screen select the Setup Soft key





For a 10G LAN Layer II Ethernet Test

2. Select Setup Soft key and then Select Test Ethernet 10GigE LAN Layer 2 Traffic Terminate



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3. The Test will launch



For a 10G LAN Layer II Ethernet Test

V2 Mts6000-10198	_ 0 🔀
ic i 15:24	\$ 07/03/2018
Select View Reports Tools Help 🗑 P1:10GigE LAN Laver 2 Traffic Te	
P1: 10GigE LAN Layer 2 Traffic Term Level (dBm) Freq Dev (ppm) Freq Dev (ppm)	Setup र्¶⇔
Ethernet Payload LBM/LTM J-Connect	
Traffic \$ 256 \$ Test Mode Frame Size	Restart 7
Summary Summary Status	
Ethernet Signal Present Signal Present Signal Present Sync Acquired Link Active Frame Detect Frame Detect Pattern Sync Signal Loss Seconds 112 VLAN Frame Detect Signal Detect Stacked VLAN Detect Frame Detect Enderse Fault Detect Signal Loss Seconds 112 Rx Mbps, L2 Unavailable Tx Mbps, L2 0.0 Frame Detect Signal Detect Stacked VLAN Frame Detect Stacked VLAN Detect Remote Fault Detect Round Trip Delay - FD (us) = Average Unavailable Round Trip Delay - FD (us) = Average Unavailable Maximum	SAM- Complete Enhanced RFC 2544
Laser Actions Service Disruption Errors Faults OAM Capture	
XFP Laser Connector Off Clock Source Freq Offset (ppm)	

4. From the Summary Results window select Actions and select Setup



For a 10G LAN Layer II Ethernet Test

VC Mts6000-10198	- • •
10 L L L L L L L L L L L L L L L L L L L	15:25 07/03/2018
Select View Reports Tools Help 🔞 P1: 10GigE LAN Layer 2 Traffic	Te
Interface Ethernet OAM Traffic Capture Filters Timed Test	Results
Connector Signal Physical Layer Network Visibility GPS/CDMA Receiver	
Optical Connector	
XFP	
Wavelength (nm) 1310	
Vendor FINISAR CORP.	
Vendor PN FTLX1412M3BCL-JG Min Rate (Mbits/sec) 9,900	
Vendor Rev 00 Max Rate (Mbits/sec) 11,300	
Power Level Type Average Power	
Diagnostic Monitoring 1 Max Rx Level (dBm) 2.00002	
Diagnostic Byte 8 Max Tx Level (dBm) 0.999913	
Transceiver Ethernet 10GBASE-LR; Ethernet 10GBASE-LW; FC 1200-SM-LL-L; Sonet/SDH I-64.1r; Sonet/SDH I-64.1	

5. Select Interface and Connector verify that your XFP is a 1310 for Single mode and Select Results



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V2 Mts6000-10198	
Ť¢:	15:49 07/03/2018
Select View Reports Tools Help 🛐 🔹 🕨 📭 👔	LAN Layer 2 Traffic Te
Interface Ethernet OAM Traffic Capture Filters Timed Test	Results
Filters Summary Ethernet Byte Pattern Rx Payload TPID Rx Payload Settings Payload Analysis: On Rx BERT Pattern: 2^23 - 1	

6. Select the Filters tab and Summery and Clear All Filters and then select Results



Setting up the T-BERD®/MTS6000A and 6000A Platform

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V2 Mts6000-10198	- • •
10:	46 08/03/2018
Belect View Reports Tools Help 🔞 P1: 10GigE LAN Layer 2 Traffic Te.	
Interface Ethernet OAM Traffic Capture Filters Timed Test	Results
Load Type Constant Constant Load Load (Mbps) Load Unit Bit Rate Allow flooding K Load (Mbps) Load (Mbps) Load (Mbps) Load (Mbps) Load (L1 Load (Mbps) Load (L1 Load (L1 L1 L1 L1 L1 L1 L0 L0	
	J

7. Select Traffic verify that your Load Type is Constant and that your Load Unit is Bit Rate Load (Mbps) 10000.0 Layer 1 Select Results



For a 10G LAN Layer II Ethernet Test

V2 Mts6000-10198			
			10:49 08/03/2018
Select View Re	ports Tools Help 🔞	▶ P1: 10GigE LAN Layer 2 Traff	c Te
P1: 10GigE LAN Layer	2 Traffic Term	Level (dBm) 🍙 Running 19h:01m	:29s Setup
		Freq Dev (ppm)	, ■
Ethernet Pay	load LBM/LTM J-Conne	ct	
Acterna 🖨 BERT		- 1 💠 10000.0	Restart
Tx Payload Actern	a Payload Tx BERT Pattern Rx	BERT Pattern Const Load (L1, Mbps)	7
Cuercowu			
Sunimary	Summary 🗘 Status	Summary Status	÷
Signal Present	Signal Present	OFF Signal Present OFF	
Sync Acquired	Link Active	OFF Sync Acquired OFF	
Frame Detect	Local Fault Detect	ON Local Fault Detect ON	Nu Nu
TP Detect			-SAM-
Pattern Sync	Signal Loss Seconds	16 Signal Loss Seconds 10	
SVLAN Frame Detect	Sync Loss Seconds	16 Sync Loss Seconds 10	
Stacked VLAN Detect	Link Loss Seconds	16 Link Loss Seconds 16	
Local Fault Detect Bemote Fault Detect	Local Fault Seconds	16 Local Fault Seconds 10	Enhanced
History	Code Violetiene	10 Code Vieletione	
Time Source	Errored Placks (PCS)	16 Errored Plocks (PCS) 10	
ToD Sync	Block Sync Losses (PCS)	1 Plack Sync Lasses (PCS)	T
🗖 🔵 1 PPS Sync	DIOCK Sync Ebsses (1 CS)		- Toolkit
History			
Laser Action	s Service Disruption Err	ors Faults OAM Capture	
XFP + Laser	Internal 🗢 -1	+1 -10 +10	
Connector Off		Freq Offset (ppm)	

8. Select Payload and verify you have Acterna Below Ethernet and Playload has Bert 2^23-1 selected and that your Const Load is 10000 Mbs



For a 10G LAN Layer II Ethernet Test

V2 Mts6000-10198	15	
		27 07/05/2018
Select View Reports Tools Help 🔞	► P1: 10GigE LAN Layer 2 Traffic Te.	
P1: 10GigE LAN Layer 2 Traffic Term	Level (dBm) -2.3 🦱 Bunning 5m:34	s Setup
	Freq Dev (ppm)	
Ethernet Payload LBM/LTM J-Conned	ct	
Traffic \$ 256		Restart
Test Mode Frame Size		4
Summary Status	Summary 🗘 SLA / KPI 🗘	
Acterna Test Packet Detect	OFF Throughput, Current 🖃 🚺	
Sync Acquired	Rx Mbps, L1 Unavailable	
Clink Active Signal Loss Seconds	330 Tx Mbps, L1 0.0	
ATP Detect	330 Rx Mbps, L2 Unavailable	SAM-
Pattern Sync		Complete
VLAN Frame Detect	234 Frame Loss - FLR ■ 62 Lost Eremon	
Stacked VLAN Detect Block Sync Losses (PCS)	10 Erame Loss Ratio	
Cocal Fault Detect	Bound Trin Delay - ED (us)	Enhanced
Remote Fault Detect	Average Linavailable	RFC 2544
History	Current Unavailable	
Time Source	Maximum Unavailable	
I DD Sync	Packet Jitter - FDV (us) 🖃 🛛 🔤	Toolkit
History		30
	and Earthan Oddard Carstan	
Actions Service Disruption Erro	ors Faults DAM Capture	
XFP 🗢 Laser	+1 -10 +10	
Connector On Clock Source	Freq Offset (ppm)	

9. From the Summery Results window select Actions and turn on your Laser. Verify you have Signal Present Sync Acquired and Link is Active (If you receive a Local Fault Detect place a 5 or 10 Db Attenuator on the RX of side of your TB-6000A)



Setting up the T-BERD[®]/MTS6000A and 6000A Platform

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V2 Mts6000-10198		
	15:30	07/03/2018
Select View Reports Tools Help 🔞	P1: 10GigE LAN Layer 2 Traffic Te	
P1: 10GigE LAN Layer 2 Traffic Term	Level (dBm) -2.3 Running 7m:47s	Setup
	Freq Dev (ppm) -0.0	₹⇒
Ethernet Payload LBM/LTM J-Connec	ct	
Traffic 😫 256 😫		Restart
Test Mode Frame Size		4
Summary Status	Summary	
Acterna Test Packet Detect	OFF Throughput, Current	
Sync Acquired	Rx Mbps, L1 Unavailable	
Frame Detect Local Fault Seconds	330 TX Mbps, L1 U.U 330 Bx Mbps, L2 Unavailable	CALL
ATP Detect	Tx Mbps, L2 0.0	Complete
Code Violations	254 Frame Loss - FLR ⊟	
SVLAN Frame Detect Block SVnc Losses (PCS)	10 Frame Loss Batio Unavailable	
Clocal Fault Detect	Round Trip Delay - FD (us)	Enhanced
History	Average Unavailable	RFC 2544
Time Source	Current Unavailable	
ToD Sync		T 11-24
History		Toolkit 2/
Lager Actions Service Discustion Fre		<u></u>
Caser Actions Service Disruption Erro		
Start Loop Loop LLB	Pause Frame	
	Insert	

10. Select Actions and Select Start Traffic



For a 10G LAN Layer II Ethernet Test

V2 Mts6000-10198				
		iic 🖉	15:30	07/03/2018
Select View Reports Tools Help 🖗		P1: 10GigE LAN Lave	er 2 Traffic Te	
P1: 10GigE LAN Layer 2 Traffic Term	Level (d	Bm) -2.3 👝 Dunning	9m/20a	Setun
	Freq De	v (ppm) -0.0	0111.305	Jettap □⇒
Ethernet Payload LBM/LTM J-Connec	ct			
				Restart
Test Mode Frame Size				5
		·		
Summary Summary Status	\$	Summary SLA / KP	\$	
Signal Present		Throughput, Current 🖃		
Signal Loss Seconds	330	Rx Mbps, L1	100.0	
C Frame Detect	330	TX Mbps, L1	100.0	
ATP Detect	254	Tx Mbps 1.2	92.8	SAM-
Pattern Sync	204 62	Frame Loss - ELB	32.0	Complete
SVI AN Frame Detect Block Sync Losses (PCS)	10	Lost Frames	Ο	
Stacked VLAN Detect		Frame Loss Ratio	0.0	
Cocal Fault Detect		Round Trip Delay - FD (us) 🖃		Enhanced
History		Average	< 4	RFC 2544
Time Source		Current	< 4	
		Maximum	< 4	
O 1PPS Sync		Packet Jitter - FDV (us)		Toolkit
History				×
Caser Cations Service Disruption Error	ors	Faults OAM Capture		
	Pause Fra	ame		
Started Up Down	Insert			

11. Traffic Started is yellow and Select Restart



For a 10G LAN Layer II Ethernet Test

V2 Mts6000-10198		- • 💌
	15:55	5 07/03/2018
Select View Reports Tools Help 🔞	▶ P1: 10GigE LAN Layer 2 Traffic Te	
P1: 10GigE LAN Layer 2 Traffic Term	Level (dBm) -2.4 Running 7m:18s	Setup
	+	,
	A	Restart
Test Mode Frame Size		
Summary	Summany A Status	
Ethernet		
Sync Acquired		
Frame Detect	ALL SLIMMARY	SAM-
		Complete
SVLAN Frame Detect	RESULIS	
Local Fault Detect OK	OK I	Enhanced RFC 2544
History		
ToD Sync		Toolkit
History	*	×
- Laser - Actions Service Disruption Erro	ors Faults OAM Capture	
Traffic Loop Loop LLB	ause Frame	
Started I Up Down	Insert	

12. Verify that you have Signal Present, Sync Acquired, Link active, Frame Detect, ATP Detect and Pattern Sync