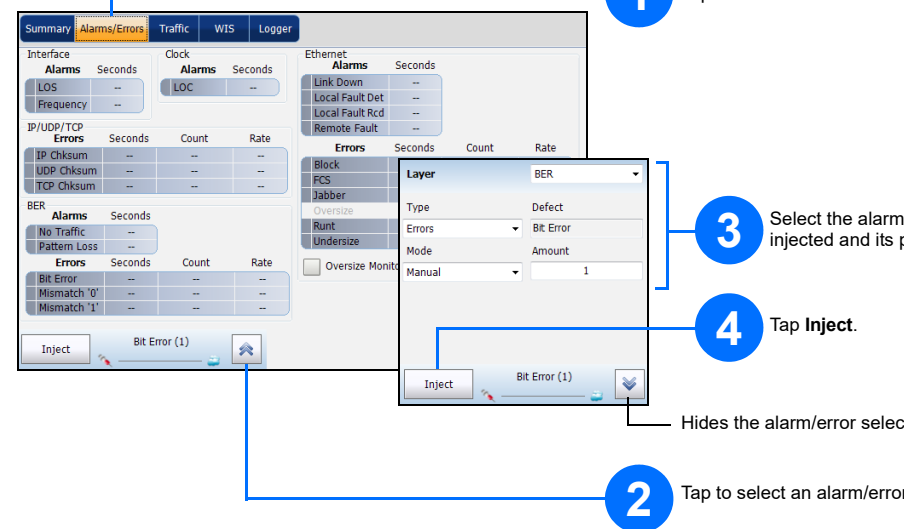# Getting Results

The **Summary** tab is automatically displayed once the test is started. Select a tab to get additional test results.

The **Stop** button is displayed when the test is running.

Test control buttons are reconfigured according to the test application and status.

Alarm/Error Injection
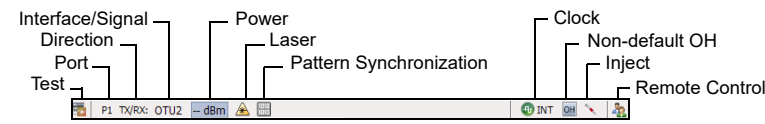

1 Tap the **Alarms/Errors** tab.

3 Select the alarm/error to be injected and its parameters.

4 Tap **Inject**.

Hides the alarm/error selection.

2 Tap to select an alarm/error.

Status Bar

- Interface/Signal
- Direction
- Port
- Test
- Power
- Laser
- Pattern Synchronization
- Clock
- Non-default OH
- Inject
- Remote Control

Additional Status Bar Symbols:

	Connection between two testing units (**Dual Test Set** or **Loop Up**)
	Loopback Tool

Global Indicator

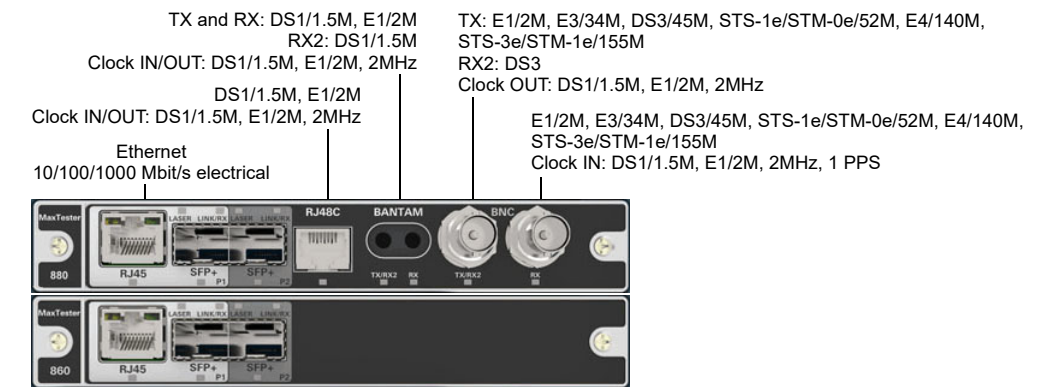The global indicator displays the pass/fail verdict, global alarm, timer, and/or test duration.

Tap anywhere within the global indicator area to view the maximized view of these indicators.

Test Control Buttons

	Start **Stop** **TX**	Starts test. Available when the test is not running. Stops test. Available when the test is running. Enables traffic generation and starts test. Available with Traffic Gen & Mon.
	Save Load	Saves, loads, imports, exports, and deletes configuration file(s). Available when the test is not running.
	Report	Saves, opens, imports, exports, and deletes test report(s). Available when the test is running or stopped, but the report generation (save) is only possible when the test is stopped.
	Laser (on)	Indicates that the laser control is on (for at least one lane for parallel interface); the laser button has a red border. Tapping this button will turn off the laser (for all lanes for parallel interface). Only available with optical ports.
	Laser (off)	Indicates that the laser control is off (for all lanes for parallel interface). Tapping this button will activate the laser immediately by emitting an optical laser signal (on all lanes for parallel interface). Only available with optical ports.
	Reset	Clears results, statistics, and logger content. Available when the test is running.
	Inject	Injects alarms/errors based on settings from the Inject button from the Results - Alarms/Errors tab.
	Discover Remote	Discovers and connects to a remote module that loops back the traffic via Smart Loopback or Dual Test Set (DTS).
	Lpbk Tool	Loops back the Ethernet frames/packets that are received on the port unused by the main test application.

MaxTester Application
MAX-800 Series

Physical Interfaces

Connect the signal to the corresponding interface on the module. For optical interfaces, make sure to insert the proper transceiver and carefully connect optical fiber cables to the transceiver IN (RX) and OUT (TX) ports.

TX and RX: DS1/1.5M, E1/2M
RX2: DS1/1.5M
Clock IN/OUT: DS1/1.5M, E1/2M, 2MHz

DS1/1.5M, E1/2M
Clock IN/OUT: DS1/1.5M, E1/2M, 2MHz

Ethernet
10/100/1000 Mbit/s electrical

TX: E1/2M, E3/34M, DS3/45M, STS-1e/STM-0e/52M, E4/140M, STS-3e/STM-1e/155M
RX2: DS3
Clock OUT: DS1/1.5M, E1/2M, 2MHz

E1/2M, E3/34M, DS3/45M, STS-1e/STM-0e/52M, E4/140M, STS-3e/STM-1e/155M
Clock IN: DS1/1.5M, E1/2M, 2MHz, 1 PPS

Ethernet 100 Mbit/s, 1000 Mbit/s,10 Gbit/s[1] LAN/WAN optical
Ethernet 10/100/1000 Mbit/s electrical (using active copper SFP)[2]
MAX-880/890/890Q: OC-1/STM-0, OC-3/STM-1, OC-12/STM-4, OC-48/STM-16, OC-192/STM-64
MAX-880/890/890Q: OTU1, OTU2

Ethernet 100 Gbit/s
OTU4
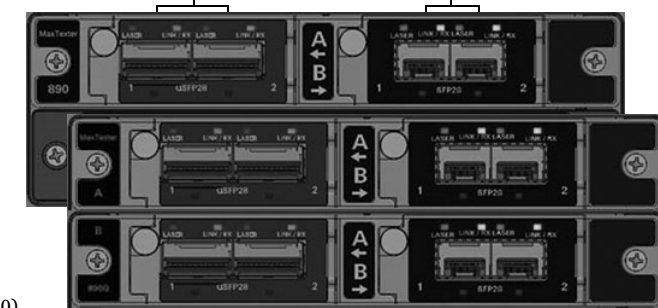
1. Not available on MAX-860.
2. Only available on P2 (MAX-860/860G/880).

Starting the Application

From Mini ToolBox, tap the application button.
For MAX-890Q there is an application for each part of the unit: A and B.

For more information, refer to the user guide.

Selecting, Configuring, and Starting a Test

Tap on a
Test Application.

1

Status Bar

---

2 Tap the **Modify Structure** button to set the basic structure of the test such as interface/rate, connector, etc.

3 Tap the interface block to configure the interface/signal parameters. Ensure that the link is up and the power level (when supported) is present in the status bar before proceeding to the next step.

4 Tap the protocol block to configure either the frame structure and its parameters for Ethernet test applications or the embedded signal for Transport test applications.
This block is not present for all tests.

5 Tap the test block to configure specific test settings.
This block is not present for all tests.

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7 Tap the **Start** button to start the test.

6 Tap the clock block to configure the clock synchronization (only available on MAX-860G using 10G WAN interface and on MAX-880).

*Note: For advanced testing, tap the **Functions** button.*

Modify Structure

TX/RX
Interface/Rate
STM-64 [9.95328 Gbit/s]

Connector
Port 1 - SFP+

Framing
Framed

SDH Multiplexing
AU-4-64c | Config Mux

Client
Pattern

Topology

Coupled (TX=RX) | Decoupled (TX≠RX) | Through

OK   Cancel

OC-192 [9.953 Gbit/s]

Physical Interface

Laser	TX Power (dBm)	Wavelength (nm)	RX Power (dBm)	Min RX Power (dBm)	Max RX Power (dBm)
ON	—	1310 nm	—	—	—

☐ Laser OFF at Start-Up   Power Range (dBm) ___ To ___

TX Frequency
Frequency (GHz) —
☐ Offset (ppm) [-] 0.0 [+]
Step Size (ppm) 1.0

RX Frequency
Frequency (GHz) | Offset (ppm) | Max Offset (ppm) Negative / Positive

Signal Configuration

OC-192	STS-1	VT1.5
Synchronization Status Message (S1) Synchronized - Traceability Unkn...	Timeslot 1:[1, 1] ☐ TCM TC-UNEQ-P	Number 1, 1 ☐ TCM TC-UNEQ-V
REI-L Computation Method M1 Only	☐ Overwrite Fixed Stuff	
	Background Traffic Equipped	Background Traffic Equipped

Signal | Traces | Labels | SFP/SFP+

Services

Modify Frame Structure ☐ Couple with Interface

Preamble/SFD | **MAC** | IP | UDP | Payload | FCS

MAC
Destination MAC Address
FE:FE:FE:FE:FE:FE
Source MAC Address
00:00:00:00:00:00
EtherType 0x0800

Source MAC Address 00:00:00:00:00:00
Destination MAC Address Not Resolved ☐ Resolve MAC Address
EtherType 0x0800

Profile | MAC/IP/UDP | Global

Services

Service Service 1 ☐ Enable

Total TX Rate (%) 0.0000

Profile
Profile | Data

Frame Size (Bytes) Fixed | 88

Test Parameters
☐ Traffic Policing (%) 92.1739
Burst Max Rate (%)

SLA Parameters
Information Rate % 50.0000
☐ CIR
☐ CIR+EIR
Burst Size
☐ CBS
☐ EBS

Performance Criteria
☐ Max Jitter (ms) 15.0
☐ Round-trip Latency (ms) 15.0
☐ Frame Loss (%) 0.0

Profile | MAC/IP/UDP | Global

RFC 2544

Dual Test Set
☐ Dual Test Set
Disconnected
Dual Test Set Enabled | Discover Remote

Global Options
Flow Direction Local To Remote
Rate Unit %
☐ Pass/Fail Verdict

Subtests	Estimated Time (H:MM)
☐ Throughput	00:01
☐ Back-to-Back	00:01
☐ Frame Loss	00:02
☐ Latency	00:01
Total	00:06

Frame Distribution
Frame Distribution RFC 2544   Quantity 7

Frame Size (Bytes)						
64	128	256	512	1024	1280	1518

Restore RFC 2544 Defaults

Global | Subtests