



# Medusa Labs Test Tools

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Viavi Solutions brings years of hands-on expertise and knowledge in the test and validation arena and puts it directly into its Medusa Labs Test Tool Suite, which finds elusive data corruptions, I/O timeouts, I/O loss, system lockup scenarios, and data integrity susceptibility. The tools are rich in debug and logging information to allow for rapid analysis of any found issues. They are designed to stress hardware and signal integrity and function on Linux, Solaris, HP-UX, and Windows so that familiarity on one platform leads to familiarity on all others. The broad scope of functionality designed into MLTT makes it as useful for a marketer or salesperson showcasing product capabilities as it is for an engineer optimizing performance.

Get concrete, detailed answers to your questions:

- What is the difference between asynchronous and synchronous I/O?
- How can I check for data corruption during an MLTT test?
- Can I integrate the Xgig® analyzer and Xgig Jammer into my MLTT configuration?
- What is the best way to approach stress, functional, and performance testing using MLTT?
- How do I debug device and data errors using MLTT?

Our classes are designed for engineering-minded individuals such as test engineers, design engineers, technical product/field support, and SAN administrators who address low-level protocol issues.

## 3 Day Course Outline

- Introduction to MLTT
- Concepts
- MLTT Architecture
- GUI Workflow and Usability
- Command Line Workflow and Usability
- Remote Command Line Usability (Catapult)
- Data Patterns
- Licensing
- Applied Testing Scenarios
- Log Analysis
- Analyzer Integration
- Troubleshooting

## What to Expect

- Never pay extra to view trace captures
- Includes insight into the standard based on our real-world testing experience
- Learn from experts with more than 20 years of experience in storage and networking

## Medusa Labs Testing and Training

Viavi is a leading provider of testing and training services through its Medusa Labs offering that focuses on server, storage, and networking interfaces and protocols. Our engineers and trainers are experts in SAS, SCSI, RAID, iSCSI, SATA, SAS, FC, FCoE, PCIe, and NVMe.

Our engineers helped develop some of the industry's key technologies and continue to have a vigorous passion for improving products and sharing their knowledge. This experience and enthusiasm translates into the highest quality testing and training services possible.

We further set ourselves apart by bringing the lab to the classroom through the use of Viavi Xgig analyzers in every class.

### Introduction to MLTT

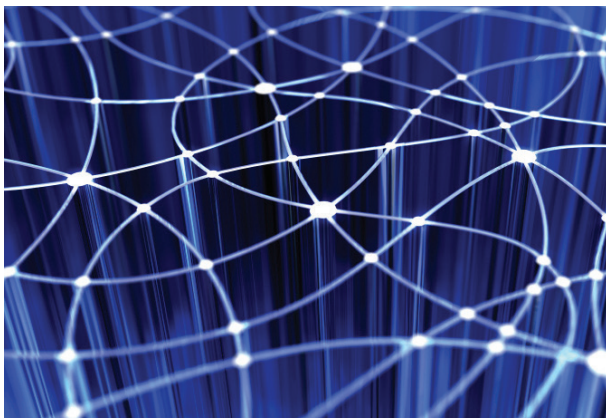
- The developmental history of MLTT
- How does it compare to other tools?
- What does it do?
- Who is it for?

### Concepts

- Storage
- Network
- Link and speed
- I/O

### MLTT Architecture

- File extensions and directory structures
- Maim
- Pain
- Sock
- Catapult
- Other utilities
- Processes and services



### GUI Workflow and Usability

- Hands on walk-through of every switch and menu accessible from the GUI
- What they mean
- What they do
- What they are for and when they would be used

### Command Line Usability

- The command line version of the previous GUI section
- Remote Command Line Usability (Catapult)
- How to use Catapult to use remote systems with the other test tools

### Data Patterns

- Examples and use cases for embedded data patterns
- How to alter existing patterns
- How to make your own using walking-bit functions

### Licensing

- Enterprise Model
- VM Model
- Check-in/Check-out

### Applied Testing Scenarios

- How do I test a...
- Server
- Storage device
- IO bus
- Driver
- SSD

### Log Analysis

- What are they
- Where are they
- What they contain
- How to turn them into useful information

### Analyzer Integration

- Triggering capability in the data path
- Triggering capability out of the data path

### Troubleshooting

- What to do and look for in various error/failure scenarios
- Hands-on lab using an analyzer trace and the associated log files to debug data corruption on a read and on a write



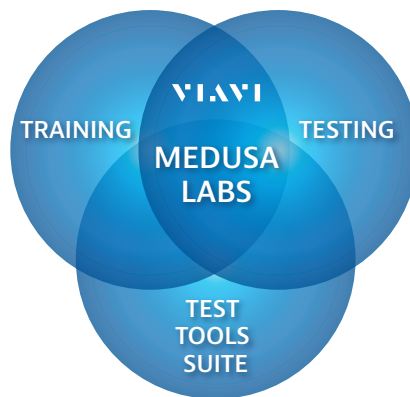
## Xgig Analyzers

We were the first to recognize the importance of using test analysis equipment in the classroom. Today, we insist that not only the instructor but also the students use analyzer software during class. No better method exists for reinforcing concepts discussed in a lecture than by “seeing” them in a trace capture. Using the Viavi Xgig analyzer, we show how the protocol works. Whether onsite at your location or at one of our own facilities, every core training course includes lab time.



## Medusa Labs Testing Services

We test customers’ products quickly and thoroughly in an enterprise environment to ensure that products will survive the rigorous demands of mission-critical applications. Customers come to us for our fast turnaround, superior analysis, excellent results, competitive prices, and, of course, 100% confidentiality. We work hand-in-hand with our customers’ engineers to provide solutions along with information. We provide not only the results of our tests, but also the debug, analysis, and regression tests that are needed to ensure that the products we test perform as expected—for your customers.





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