

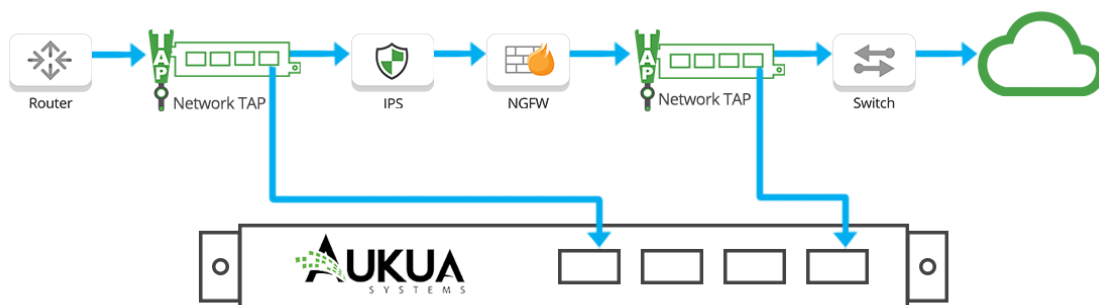
Ensuring Application Performance With Aukua Systems and Garland Technology

A Joint Solution from Aukua and Garland Technology

Identify network latency bottlenecks by using empirical data directly measured against live network application traffic.

It is well understood that network latency plays a fundamental and direct role in end-user network application performance. This is especially true for audio and video delivery, bandwidth sensitive mobile applications, cloud computing, and storage services applications. How can you gain insight into how your network devices are contributing to network latency issues? How are the smarter more complex security devices we are deploying in our networks contributing to this problem? While these devices are critical to protecting our networks, are they impacting some applications more than others?

Aukua Systems has developed a solution to precisely measure one-way latency between two points for each and every network application packet of interest. This solution uses our MGA2510 [Latency Monitoring Analyzer](#) passively connected to two Garland Technology network TAPs which reliably provide every packet to the Aukua MGA2510 for analysis.



Monitor Latency of Live Network Traffic

Traditional approaches to measuring network latency rely on indirect methods such as pings (ICMP) or require injecting additional foreign traffic onto a network. These methods are not accurate, provide no information on how some application is impacted differently from others, and in many cases, they can violate regulatory or procedural requirements.

Leveraging Garland Technology TAPs, live network data is duplicated with less than 3ns latency added, supplying out-of-band traffic to Aukua's MGA2510 Latency Monitoring Analyzer. The 100% visibility enables the Aukua solution full monitoring and direct analysis of network application traffic without introducing packets into the network.

Garland Technology Network TAPs and Packet Brokers

Garland Technology provides a full platform of network access products including a range of network TAPs and Network Packet Broker devices, supporting the entire wire spectrum from 10/100M copper to 1G/10G/40G/100G.

Key Capabilities

- **Complete Network Visibility** by passing all live wire data
- **Ensure No Dropped Packets** for out-of-band tools
- **Quality standard**, all TAPs are tested with live network data and validated
- **100% failsafe packet capture** – all Network TAPs are tested and validated, and have built-in failsafe and/or heartbeat technology.
- **Reliable traffic aggregation, load balancing, and filtering** – full control over traffic behavior and flexibility for aggregation and regeneration.

Aukua Ethernet Test and Monitoring Platform

Aukua's MGA2510 is the only Ethernet test platform providing inline visibility with focus on capture, analysis, and monitoring to natively support 2.5G, 5G, and 10GBASE-T as well as optical rates.. The MGA2510 supports Bit Error Rate (BER) testing, throughput testing and can be used as a traffic generator.

Key Capabilities

- **Measures one-way latency** directly experienced by application or production traffic with 1.0ns precision.
- **Passive deployment** - no need to introduce extra unwanted traffic into the network (such as with ICMP or active probes).
- **Allows you to stay compliant** with regulatory requirements while improving the accuracy of latency measurements
- **Leverage a powerful and customizable set of L2L7 filters and triggers** to configure which applications, devices, addresses or protocols to monitor or capture
- **Real-time stats** and graphical analysis including latency histogram, custom bandwidth stats, and packet size distribution.

About Aukua

Aukua Systems builds world-class high-performance test and monitoring solutions which are powerful, affordable and easy to use. Aukua was founded to deliver on the promise to provide easy to use test and monitoring solutions, without sacrificing performance, accuracy and reliability. Aukua is based in Austin, Texas. For more information, visit www.aukua.com or follow [@aukuasystems](https://twitter.com/aukuasystems)



Have Questions?

sales@garlandtechnology.com | +1 716.242.8500 | garlandtechnology.com

Garland Technology is an industry leader delivering network products and solutions for enterprises, service providers, and government agencies worldwide. Since 2010, Garland Technology has developed the industry's most reliable test access points (TAPs), enabling data centers to address IT challenges and gain complete network visibility. For more information, or learn more about the inventor of the first bypass TAP, visit GarlandTechnology.com or [@GarlandTech](https://twitter.com/GarlandTech).

