

### Real-World Network Conditions... *In Your Lab!*

You thoroughly tested your solution or application, and yet after delivering to your end-customer it failed to meet expectations. Now you have angry customers, you're losing market share to competitors, and your costs are rising. What went wrong?

Many times it is simply that you forgot to consider the impact of real-world network conditions in your development and testing plans. All networks have latency, bandwidth limits, and congestion issues which vary with time. These real aspects of networks affect how communication protocols and applications behave, and therefore have a direct influence on performance and ultimately end-user experience.

Taking a wait-and-see approach to discover this real-world network impact has tremendous risk and cost. The traditional approach of only testing in an ideal lab environment isn't good enough for today's networked or cloud-based world.

#### The Solution

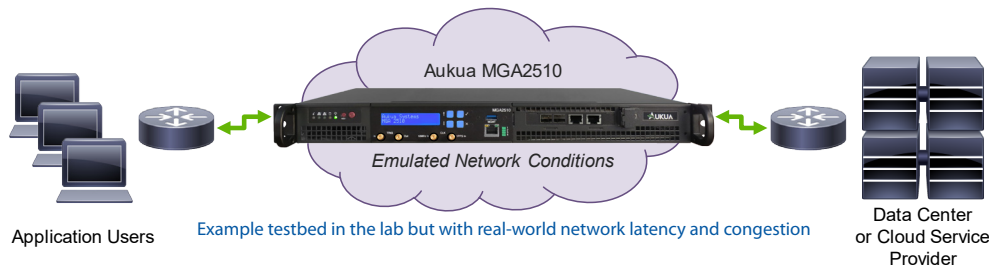
Network Impairment Emulators from Aukua Systems.

Our Network Impairment Emulators bring real-world network delays, congestion and bandwidth limitations to your lab, so you can quickly and easily measure empirically the effects these networks will cause. All this **before** you deploy or deliver solutions to your customers.









#### How it Works

Aukua's FPGA-based Network Impairment Emulators, also called WAN emulators, sit inline within your development test bed to accurately add delay, limit bandwidth and recreate network congestion scenarios for a programmatic, reproducible and realistic test methodology. This is NOT a simulation. It allows you to directly experience in your lab, application response times, bandwidth performance, voice & video quality, and overall application stability, just as your customers will.



#### Benefits of using Aukua Network Impairment Emulators

-  **Accurately Predict Application Performance**  
New insights enable right-sizing solutions while still meeting customer requirements, improving time-to-market, controlling costs, keeping customers happy
-  **Reduce Mean Time to Repair (MTTR)**  
When customer issues occur, you have a proven method to quickly reproduce, fix, and then test fixes against your customer's network conditions
-  **Gain Confidence**  
Rest assured that your applications will perform at their peak, your disaster plans are sound, and your customers will be satisfied
-  **Convince Your Customers**  
Aukua Network Emulators make great sales and marketing tools, bringing a real-world aspect to your pre-sales product demonstrations
-  **Reduce Risk, Deploy Earlier and Save Money**  
Gain competitive advantage with a smarter test methodology that finds problems early, *before* you deliver
-  **Optimize Solutions**  
Developers can more effectively tune applications to work under high latency and congestion scenarios with maximum possible performance