

# CASE STUDY

## Extended QA for a leading Industrial Ethernet solution provider



This case study showcases how Veryx Technologies enabled a global industrial ethernet solution provider to meet their targets by providing extended QA testing.

### Client

The customer is a leading networking solution provider for industrial and mission critical application.

### Challenges

The customer was planning to launch a set of new platforms with new embedded networking stack that will set a benchmark in the automation sector and further extend the range of applications for their Industrial Ethernet switches. The challenge was

- End to end test on multiple variants.
- Long test cycles.
- Repetitive manual test

### Solution

Veryx Technologies readily took up the challenge and was determined to provide good quality and increasing value for their esteemed customer. The key highlights of the strategy were:

- ✓ Usage of ready-to-use exhaustive library of tests
- ✓ End to end test
  - Functionality test
  - Vulnerability test
  - Load & Stress test
  - Performance test
  - Interaction test for multiple features
  - Interoperability test with different hardware variants
- ✓ Test automation to reduce the test cycle time and effort

Veryx quickly ramped up the team with the skilled engineers, as they were already experienced in designing, developing and deploying comprehensive and flexible testing solutions. The test included real time deployment scenarios.

## Benefits

- ✓ Test automation helped in increasing the productivity by 84%
- ✓ Better quality software due to regression testing on every builds
- ✓ Streamlining of the test process by defining test strategy, mapping of requirements, test execution and issue resolution
- ✓ Simultaneous test execution of multiple releases
- ✓ Reduced cost by simulating complex topologies using open source tools.



## Technology

- ✓ OS: Linux, Windows
- ✓ Scripting Languages: TCL/TK and Python.
- ✓ Features:
  - L2 and L3 switching
  - Time Synchronization Protocols
  - Redundancy Protocols like Spanning Tree, MRP, PRP and HSR.
  - Unicast Routing (RIP/OSPF).
  - Multicast routing (DVMRP, PIM-SM),
  - Industrial Protocols like Ethernet/IP, MODBUS, IEC61850
- ✓ Hands on experience in IXIA, Spirent and XENA traffic generation tools.

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### About Veryx Technologies

Veryx Technologies is a provider of innovative testing, automation and monitoring solutions for network service providers, cloud service providers, data centers, Enterprise IT and network equipment vendors. Veryx offers solutions for network testing, performance monitoring and equipment testing applications for technologies such as Carrier Ethernet, IP, Cloud, SDN, NFV and Smart Networks.

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