CASE STUDY



Corelight and Keysight Help Energy Provider Upgrade

OT Network Monitoring and Threat Detection

KEYSIGHT

01

Industry

Energy

02

Customer

Provider of regulated electricity services to nearly 1M customers across the midwestern US

03

Challenge

Upgrading visibility to support monitoring of higher-speed networks

04

Solution

Upgrade previous IDS and NDR solutions to Corelight Open NDR

Upgrade Keysight T1000 taps for OT environments to full-featured Vision Edge network packet brokers (NPBs)

Double down on proven solutions and longstanding partnerships

Overview

A 100-year-old provider of electricity and natural gas service is modernizing its monitoring infrastructure while migrating its network to higher speeds. The project began with upgrading an operational technology (OT) network to 10G with continued evolution to 25G and 40G on the horizon.

To maintain security and control, the company replaced outmoded intrusion detection systems (IDS) and network detection and response (NDR) technology with Corelight Open NDR to analyze OT traffic for threats. They're completing the picture by updating their network visibility to scalable Keysight Vision Edge packet brokers to provide the Corelight tools with all the right data at just the right time.

The Challenge

IT/OT network convergence and consolidation require complete visibility and precise orchestration. The energy company opted to upgrade its IDS and NDR solutions across nearly 30 data centers to strengthen security, accelerate threat detection, and scale visibility and monitoring as the network evolves.

They conducted a proof of concept (PoC) demonstration that led to replacing the outdated IDS and vulnerability management systems with a Corelight security monitoring solution. The Corelight team introduced the security team to Keysight to discuss upgrading its network visibility. Already a satisfied customer of Keysight's T1000 "Tough Taps," a ruggedized visibility offering optimized at the same time for challenging OT and industrial internet of things (IIoT) environments, the provider decided to double down on Keysight's network visibility platform.

In choosing the ideal visibility solution, a decision-making team led by system engineers and cybersecurity managers and architects wanted the new platform to deliver:

- Extended visibility to remote power substations
- A consolidated view of IT/OT operations
- High-capacity processing of consolidated network traffic
- An easy to use, cost-effective solution that would scale to meet future needs

> "Corelight gives your team eyes on everything crossing the wire. Combined with Keysight's ability to get the right packets to the right tools, it becomes a reliable detection and investigation platform that's scalable and futureproof."

The Solution

A Modern Joint Solution from Corelight and Keysight

When they first considered visibility partners years before, the company chose Keysight for its flexibility deployment options, scalable architecture, ease of use, and lower cost of ownership. They looked to extend these same benefits to their newly modernized centers while upgrading to take full advantage of Keysight's world-class graphical user interface (GUI) and advanced processing capabilities.

After choosing their ideal solutions, the team began migrating the existing T1000 taps to future-ready Vision Edge 40 (E40) packet brokers that could handle speeds up to 40G and higher. The powerful new E40s give the team full-featured packet brokers featuring:

- High-performance traffic aggregation
- Intelligent filtering and deduplication
- Cost-efficient replication of traffic to Corelight and other go-to monitoring tools

The rollout began with installing Vision E40s at eight prominent data centers located throughout the Midwest.

What's Next?

More Traffic, More Features, More Functions

As the modernization unfolds, the rollout of Vision E40s could span nearly 30 data centers. Joint network and security monitoring solutions from Corelight and Keysight stand ready to tackle future demands, like processing-intensive Transport Layer Security/Secure Sockets Layer (TLS/SSL) traffic decryption. The company also may leverage additional visibility intelligence by deploying Keysight's AppStack and SecureStack software suites to enhance analysis and fast-track threat detection.

Visit https://www.keysight.com/us/en/products/network-visibility.html for the latest from Keysight on insights for optimizing network monitoring, security, and analysis.

For more info, contact: 1-888-438-4942 or visibilitysales@keysight.com

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