

SOLUTION BRIEF

# Converge IT, IoT, and OT Security Operations

## Delivering Packet-Level Visibility Without Blind Spots or Performance Tradeoffs

Industrial networks are converging fast with IT, IoT and OT calling on a single infrastructure. Your SOC needs packet-level visibility everywhere, regardless of the existing system's complexities. Keysight's visibility platform gives Nozomi Networks the data it needs to detect threats before they become incidents.

A modern network visibility architecture overcomes common challenges encountered in accessing, replicating and distributing packet-level data to Nozomi Networks for analysis:

- **Illuminates blind spots that veil security threats** by capturing hard-to-reach traffic. A visibility platform also economizes packet capture where duplicate packets may be over-burdening security sensors.
- **Allows monitoring infrastructures to keep pace** as networks evolve to 10G/40G/100G speeds.
- **Extends the value of SOC budgets** and cybersecurity expertise to find and respond to threats faster.



## Joint Solution Highlights

**Faster, more flexible deployment** for IT, IoT and OT environments that include legacy equipment

**Monitoring infrastructure scales efficiently** as networks grow and converge

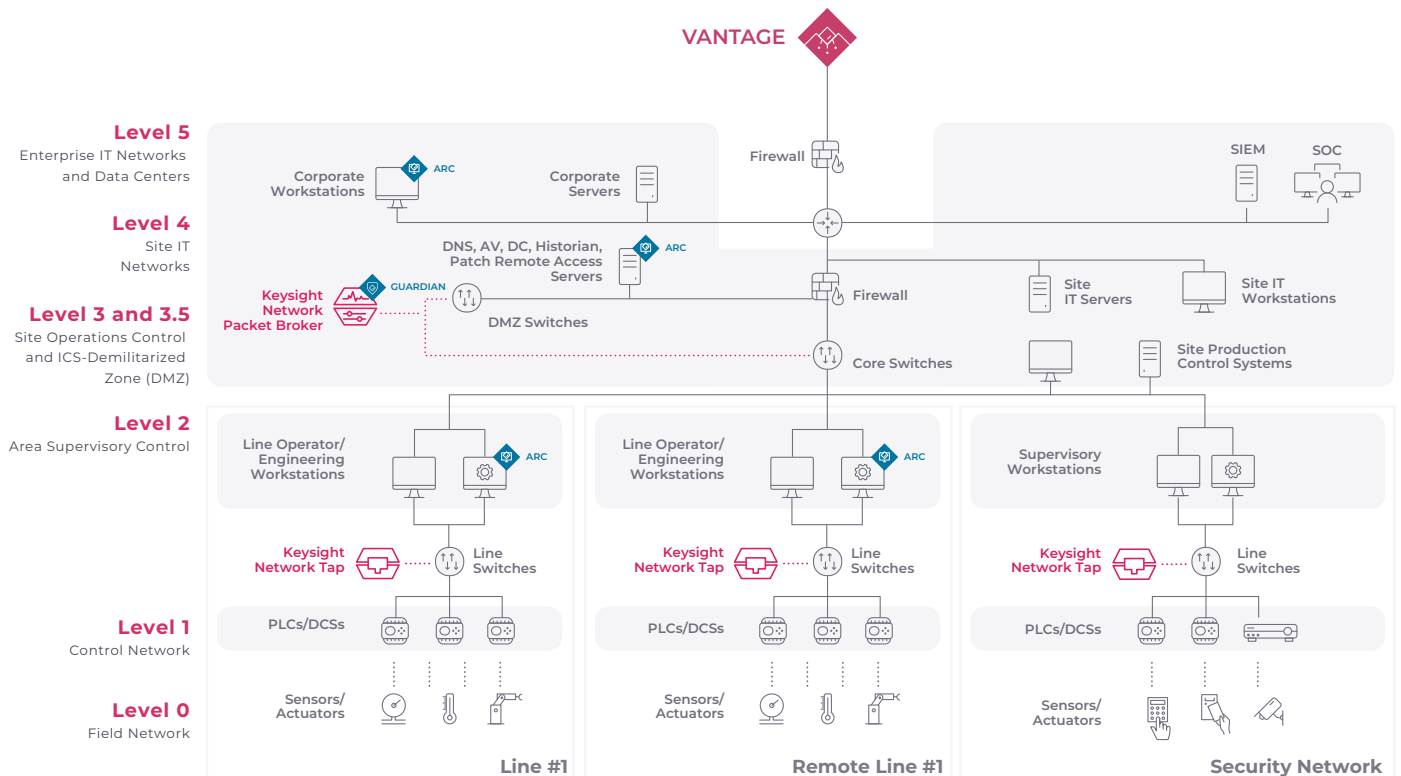
**Performance and security improve** across critical network infrastructure

**Integrate security monitoring** by deploying Nozomi Guardian sensors directly on Keysight packet brokers

# Visibility Creates a Foundation for Growth

Keysight delivers 100% visibility to the network links and real-time data that Nozomi Networks needs to analyze and strengthen performance, operational resilience and security. Deploying Keysight with Nozomi Networks together overcomes common pain points of scaling your IT/OT monitoring infrastructure so you can:

- **Monitor 100% of traffic without missing critical packets:** Keysight visibility solutions ensure all traffic needed for monitoring and analysis gets collected and transmitted with no loss of critical packets — a common problem encountered using SPAN or competing visibility solutions.
- **Efficiently monitor multiple links in distant locations:** Keysight taps and network packet brokers (NPBs) collect and aggregate traffic from multiple places across your network into a single location for efficient processing and accurate monitoring. As needed, Keysight Vision NPBs create tunnels to collect traffic in distant locations (such as remote OT environments) for central analysis by IT and security professionals.
- **Deliver the same critical data to multiple tools:** The Keysight visibility platform distributes traffic to multiple destinations with or without filtering data for each individual tool.
- **Avoid oversubscription of high-end switches:** Keysight taps collect and replicate network traffic without using SPAN techniques that consume valuable ports on high-end switches. Along with eliminating extra work to configure network traffic access, using taps to collect and mirror data instead of SPAN avoids a drag on switch performance. In some industrial environments with older switches in place, no SPAN ports are available at all.
- **Prevent traffic volumes from overwhelming monitoring infrastructures:** Intelligent Keysight packet brokers filter and deduplicate traffic so each monitoring tool receives exactly — and only — the data that it needs to analyze.
- **Reduce hardware footprint and deployment complexity:** Deploying Nozomi Guardian sensors directly on Keysight packet brokers eliminates standalone sensor hardware, accelerates deployments, and lowers total cost of ownership.



# Better Together: Keysight and Nozomi Networks Deliver End-to-end Visibility

Using a Keysight visibility platform to collect and replicate data for analysis by the Nozomi Networks platform allows defenders and operational teams to see, secure and monitor all IT, IoT, and OT assets in real time. Utilizing Keysight's platform with packet de-duplication and filtering enhances the performance and efficiency of Nozomi Guardian sensors, which can also be deployed directly on Keysight packet brokers to simplify monitoring.

When used in conjunction with Nozomi Guardian Air (wireless sensor), Nozomi Arc (endpoint sensor), and Nozomi Arc Embedded (embedded endpoint sensor), security and operational teams can access data and analytics of the entire OT and IoT system landscape. The data collected and analyzed across all sensors can be centrally managed in the Nozomi Vantage SaaS platform, providing a unified view of all assets, alerts, network activity, and providing AI-powered insights and risk analysis. Together, Keysight's visibility fabric with the Nozomi Networks platform give your team the complete, real-time picture needed to detect, investigate, and respond at any scale.

## Joint Solution Benefits



### 100% visibility across converged environments

- Clear view of all IT, IoT and OT traffic for complete security
- Monitor all IT, IoT, OT, and even edge and cloud assets – including on-prem legacy devices
- Eliminate network and cloud blind spots



### Better, faster threat detection and response

- Ensure continuity of services and operations
- Offload decryption to uncover encrypted threats



### Streamlined operations as your network scales

- Keep up with exploding traffic volumes
- Avoid misconfigured production switches (RSPAN)
- Improve tool and monitoring infrastructure utilization



### Reduced cost and complexity

- Lower costs by consolidating monitoring
- Reduce the burden on IT, OT, and security teams
- Extend the value of tool investments



### **About KEYSIGHT**

At Keysight (NYSE: KEYS), we inspire and empower innovators to bring world-changing technologies to life. As an S&P 500 company, we're delivering market-leading design, emulation, and test solutions to help engineers develop and deploy faster, with less risk, throughout the entire product life cycle. We're a global innovation partner enabling customers in communications, industrial automation, aerospace and defense, automotive, semiconductor, and general electronics markets to accelerate innovation to connect and secure the world.

Learn more at [Keysight Newsroom](#) and [www.keysight.com](http://www.keysight.com).



### **About Nozomi Networks**

Nozomi Networks protects the world's critical infrastructure from cyber threats. Our platform uniquely combines network and endpoint visibility, threat detection, and AI powered analysis for faster, more effective incident response. Customers rely on us to minimize risk and complexity while maximizing operational resilience.