



CASE STUDY

# Leading Medical Technology Provider Gains Deep Visibility into Its Manufacturing Processes

**The Nozomi Networks OT/IoT security solution allows this healthcare technology company to see what's going on in its network, spot vulnerabilities and quickly address high-priority risks.**

“ Nozomi Networks helped this healthcare technology manufacturer roll out a mature security program across its manufacturing plants and engineering lab environments around the world. The solution's detailed OT network topology, advanced monitoring capabilities, extensive integrations and outstanding scalability gave their Security Operations Center enterprise-level visibility without any disruption to ongoing operations.

**JOHN HERZOG – Director of Sales, Nozomi Networks**

## Customer Profile

Global medical technology and digital solutions

Operating in over 150 countries

50K+ employees

## Goals & Challenges

Expand visibility into global manufacturing and engineering processes

Prevent and minimize downtime due to operational disruptions or security incidents

Accelerate enterprise-wide security maturity

## Results

Consolidated visibility across global manufacturing facilities

Real-time insights into OT/IoT vulnerabilities and risks

Accelerated response to potential operational disruption

# Guardian

## Unlocks Visibility Across OT and IoT for Accelerated Digital Transformation

### The Challenge: Gaining Visibility Across Globally Distributed Manufacturing Processes

This healthcare company's intelligent medical technologies are redefining patient care. Its expertise in diagnostics, research and biopharmaceutical solutions are helping physicians detect disease earlier and create personalized treatment plans for patients.

The organization's manufacturing facilities, spread around the world, had varying levels of security maturity. Some had visibility

into the mixed environment of OT and IoT devices being used in plant operations, while others didn't. Inconsistent situational awareness and insight made it difficult to monitor and manage manufacturing processes efficiently. It also made it challenging to identify production line availability risks, and quickly troubleshoot problems.

### The Solution: An Automated Asset Inventory and Real-time OT/IoT Network Visualization

The first step towards building a stronger OT and IoT security posture involves tracking the devices operating on the network, and how they're interacting.

Upon deployment, Nozomi Networks Guardian immediately generated an interactive network visualization map displaying all assets and lines of communications. It also created a comprehensive inventory, complete with name, type, serial number, firmware version, components and more.

The solution then analyzed network traffic and established a baseline for legitimate activity and behavior. The breadth and depth of information gave plant managers

and the cybersecurity team extensive visibility into the operational environment, including:

- A macro view of its entire OT and IoT network
- The protocols used to communicate between nodes and zones
- Network traffic information such as throughput, protocols and open TCP connections
- Detailed attributes of endpoints and connections
- A solid foundation for identifying system vulnerabilities and anomalies



We invited each of our business units to do their own review of the Nozomi Networks solution and team. The level of engagement during pre-sale discussions, solution training, and post-sale deployment has been exemplary. When combined with the system's maturity and scalability, it was easy to get to a unanimous decision that this was the right solution for us worldwide.

Director of Cybersecurity, Medical Technology Company

# Anomaly & Threat Detection

## Quickly Identify Process Reliability and Cybersecurity Threats

### **The Challenge:** **Preventing Production Line Disruption**

When COVID-19 hit and global demand for ventilators skyrocketed, this medical technology provider quickly scaled up its manufacturing lines to produce triple its usual output.

One critical step involved engaging the network team responsible for new product line and manufacturing systems infrastructure. The team needed to ensure that ramp up could be done securely, without introducing any risk to plant floors.

Fortunately, when the company first started looking for an ICS vulnerability and incident response platform, its selection criteria included the ability to monitor production processes and identify vulnerabilities and behavioral anomalies. Other priorities included the ability to automatically alert operators to reliability issues, filter out noise and provide context that would allow them to proactively address the issues before downtime occurred.

### **The Solution:** **Ongoing Vulnerability Assessment + Advanced Threat Detection**

The Nozomi Networks solution was in place when the pandemic began to wreak havoc around the world. This meant that the company was already monitoring its network for operational anomalies that could bring critical production lines down. The solution's precise alerts, which exclude benign anomalies, helped focus the company's attention on high-priority risks and improved its mean-time-to-response (MTTR).

The cybersecurity team was well armed with the tools it needed to detect threats, thanks to the large number of ICS and IT protocols monitored by the Nozomi Networks solution. The products also integrate with

a roster of third-party security tools such as SIEMs and asset and log management systems. Integrations with firewalls allowed the team to automatically block attacks.

The medical technology company also leveraged the Nozomi Networks Threat Intelligence service. It continually updates Guardian sensors with rich data and analytics, and correlates threat intelligence information with broader environmental behavior. This provided an added layer of security and operational insight to its risk management program. It also helped the company confidently scale up production to address changing market demand.

# Guardian

## Unified Visibility, Monitoring and Security Across Distributed Operations

### The Challenge: Accelerating Security Maturity Across the Manufacturing Supply Chain

Given the critical nature of its business, the company had invested significant resources in establishing a solid framework for its security program, complete with best practices, employee training, ongoing audits, and much more.

With the infrastructure in place, the cybersecurity team felt it was time to

ramp up security maturity across its entire manufacturing supply chain. To achieve this, it needed a proven ICS visibility and security solution that could easily scale to support globally-distributed manufacturing processes that were interconnected, automated and IoT-enabled.

### The Solution: A Highly Scalable Solution Built to Deliver Outstanding Regional and Global Insight

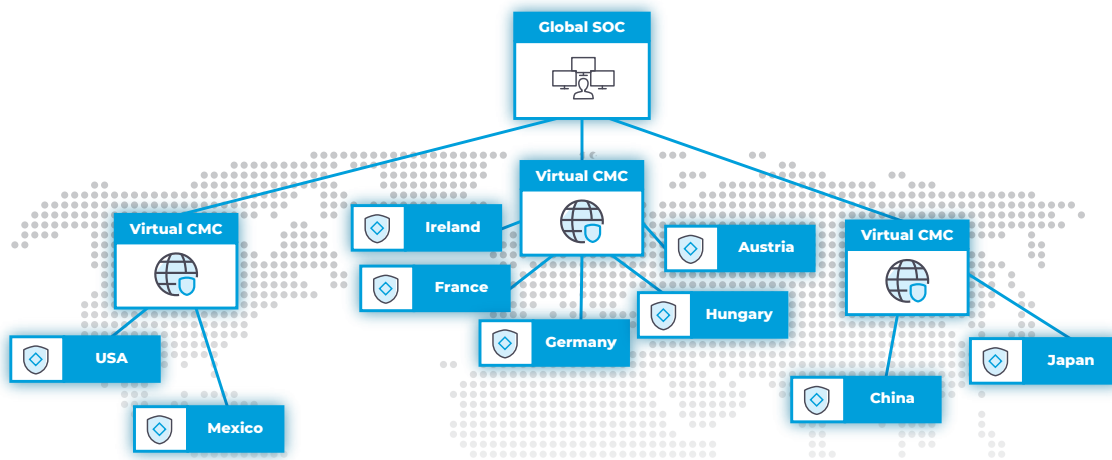
The Nozomi Networks solution was built for scalability. Guardian sensors come in physical, virtual, ruggedized, portable and container versions to fit all deployment scenarios, and a single Guardian sensor can monitor up to 500,000 assets in real-time. In addition, Guardian's large enterprise series, including the powerful 750 and 1,000 models deployed by the medical technology company, can be easily customized to meet the network needs of specific sites, including 1G and 10G deployments.

The company deployed virtual Central Management Consoles (CMCs) in North

America, EMEA and APAC to aggregate data from in-region manufacturing and engineering operations. It now feeds this information to a global OT Security Operations Center (SOC) located in North America.

Built-in integrations with asset, identity management and other systems made it easy to streamline security processes across IT and OT, and around the world.

As a result, the medical technology manufacturer now has consolidated OT/IoT visibility and security risk management within a single pane of glass.



Sample deployment map showing the global Security Operations Center (SOC) receiving feeds from Nozomi Networks Central Management Consoles (CMCs) and in-region Guardian sensors.

**The Results:  
Fast, Easy  
Deployment  
Delivers  
Immediate Value  
to Cybersecurity  
Team**

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This multi-national medical technology company was able to quickly roll out a mature OT and IoT security solution across operations in multiple countries. It can now continuously monitor its manufacturing and engineering processes for vulnerabilities and risks. The company can also quickly spot and respond to anomalies that could disrupt availability. Even better, it can do all this and more from a central location managed by a small team of security experts.

As of October 2020, Nozomi Networks' industry leading solution for network visibility and threat detection was monitoring over 17,000 devices and network connections for the company's facilities in North America, Europe and Asia. To further strengthen its cyber resilience, this innovative medical technology company plans to more than double its deployment of Guardian sensors within its manufacturing and engineering operations in 2021.

# The Nozomi Networks Advantage

**Securing the  
World's Largest  
Organizations**

Accelerating your digital transformation by reducing cyber risk.

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**Unifying  
Cybersecurity  
Visibility**

Innovating visibility and threat detection across your OT, IoT, IT and cyber-physical systems.

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**Partnering to  
Accelerate IT/OT  
Convergence**

Deeply aligned with the OT, IoT and IT partners you trust.

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# Nozomi Networks

## **The Leading Solution for OT and IoT Security and Visibility**

Nozomi Networks accelerates digital transformation by protecting the world's critical infrastructure, industrial and government organizations from cyber threats. Our solution delivers exceptional network and asset visibility, threat detection, and insights for OT and IoT environments. Customers rely on us to minimize risk and complexity while maximizing operational resilience.

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