

## Real-time Cybersecurity and Visibility for Industrial Control Networks

Solution Brief

The Nozomi Networks Solution improves ICS cyber resiliency and provides real-time operational visibility. Major customers have improved **reliability**, **cybersecurity** and **operational efficiency** using our technology.



Rapidly Detect  
Cybersecurity Threats,  
Risks and Incidents



Quickly Recognize  
Operational  
Anomalies



Easily Track Industrial  
Assets and Know Their  
Cybersecurity Risks



Significantly Reduce  
Mitigation, Troubleshooting  
and Forensic Efforts



Centrally Supervise and  
Monitor Large, Distributed  
Industrial Networks



Confidently Deploy at  
Enterprise Scale thanks  
to Proven Performance

Up until now it's been difficult to have comprehensive, real-time visibility into ICS networks, devices and process status. Without that insight, protecting the control network from cyberattacks and avoiding operational disruptions is a challenge. Nozomi Networks' innovative technology solves this challenge and does it in a way that is completely non-intrusive and safe for ICS and SCADA networks.

It automatically discovers, in real-time, the industrial network including its components, connections and topology. Its advanced learning capability then develops process and security profiles specific to your ICS and uses behavioral analytics to constantly monitor them. The result is the rapid detection of cyberattacks and critical process anomalies.

At Nozomi Networks we believe that cybersecurity and real-time operational monitoring go hand-in-hand to ensure reliability.

### Industrial Cybersecurity

- Anomaly, Intrusion and Risk Detection
- Incident Correlation
- Vulnerability Assessment

### Operational ICS Visibility

- Asset Inventory
- Network Visualization & Modeling
- Real-time Network Monitoring
- Dynamic ICS Behavioral Learning

### Proven Large-Scale Deployments

- Utilities
- Oil and Gas
- Manufacturing
- Meets Enterprise Requirements
- Integrates with Security Infrastructure
- Delivers Fast ROI

"Nozomi Networks has impressive traction for a young company with several large industrial enterprises operating at scale commercial deployments – industrial clients should engage to secure their increasingly connected enterprises"

## Key Benefits



### Rapidly Detect Cybersecurity Threats and Incidents

Non-intrusive installation does not require changes, downtime or disruption to the network. ICS network traffic is used to build a baseline ICS Virtual Image of your operation, a logical and comprehensive model of your physical process and network deployment. Rapid identification of critical states thanks to advanced industrial network behavioral analytics and continuous real-time assessment.



### Reduce Troubleshooting and Remediation Efforts

Instead of spending days decoding network data and manually aggregating information from various sources, use SCADAguardian's deep and centralized analysis to quickly arrive at real-time answers to industrial issues and incident investigations. You save time and reduce costs.



### Fast Identification and Remediation of Operational Anomalies

By baselining the devices on your network and how they impact process behavior, Nozomi Networks' solution quickly identifies malfunctions, misconfigurations and irregularities. Reports and alerts help you avert service disruptions, expensive repairs and loss of revenue.



### Track Industrial Assets and Corresponding Cybersecurity Risks

With real-time asset inventories and vulnerability assessment, you know the systems and devices of your ICS including their hardware and software configurations. Combined with vulnerability assessment; you have complete visibility into your cybersecurity risk posture and can conduct rapid remediation.



### Save Time and Avoid Regulatory Compliance Fines

SCADAguardian provides detailed, automated business reports, eliminating the need for time consuming, manual data aggregation and avoiding regulatory penalties.



### Easily Monitor Remote Sites from a Central Location

Take advantage of visibility across multiple plants and large geographic areas using the Nozomi Networks' Central Management Console. Remotely troubleshoot and respond to incidents faster and reduce onsite support costs.



## Capabilities



### Automated Real-Time Modeling of Industrial Control Networks

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- ICS network traffic is used to build a baseline ICS Virtual Image of your physical process and network deployment.
- Rapid identification of critical states thanks to advanced industrial network behavioral analytics and continuous real-time assessment.



### Unprecedented Operational Visibility

- Improve network and process awareness with always-up-to-date network mapping and visualization.
- Instantly detect real-time ICS process anomalies such as incorrect activity, misconfigurations and malfunctions.
- Enhance process insight with intuitive customizable dashboards that highlight key issues. Drill down tools make it easy to analyze issues.



### Rapid Identification of Cybersecurity and Process Anomalies

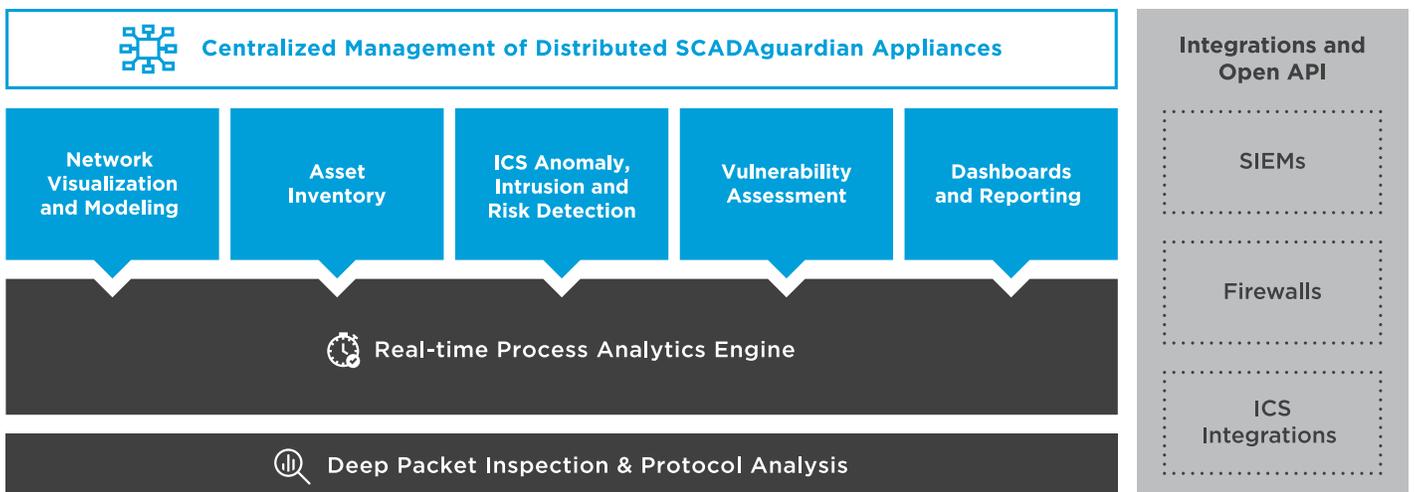
- Detect and mitigate cybersecurity incidents, whether they are internal or external, malicious or accidental.
- Stay up-to-date on cybersecurity status with alerts and at-a-glance dashboards.
- Understand incidents using real-time query, replay and forensic tools.



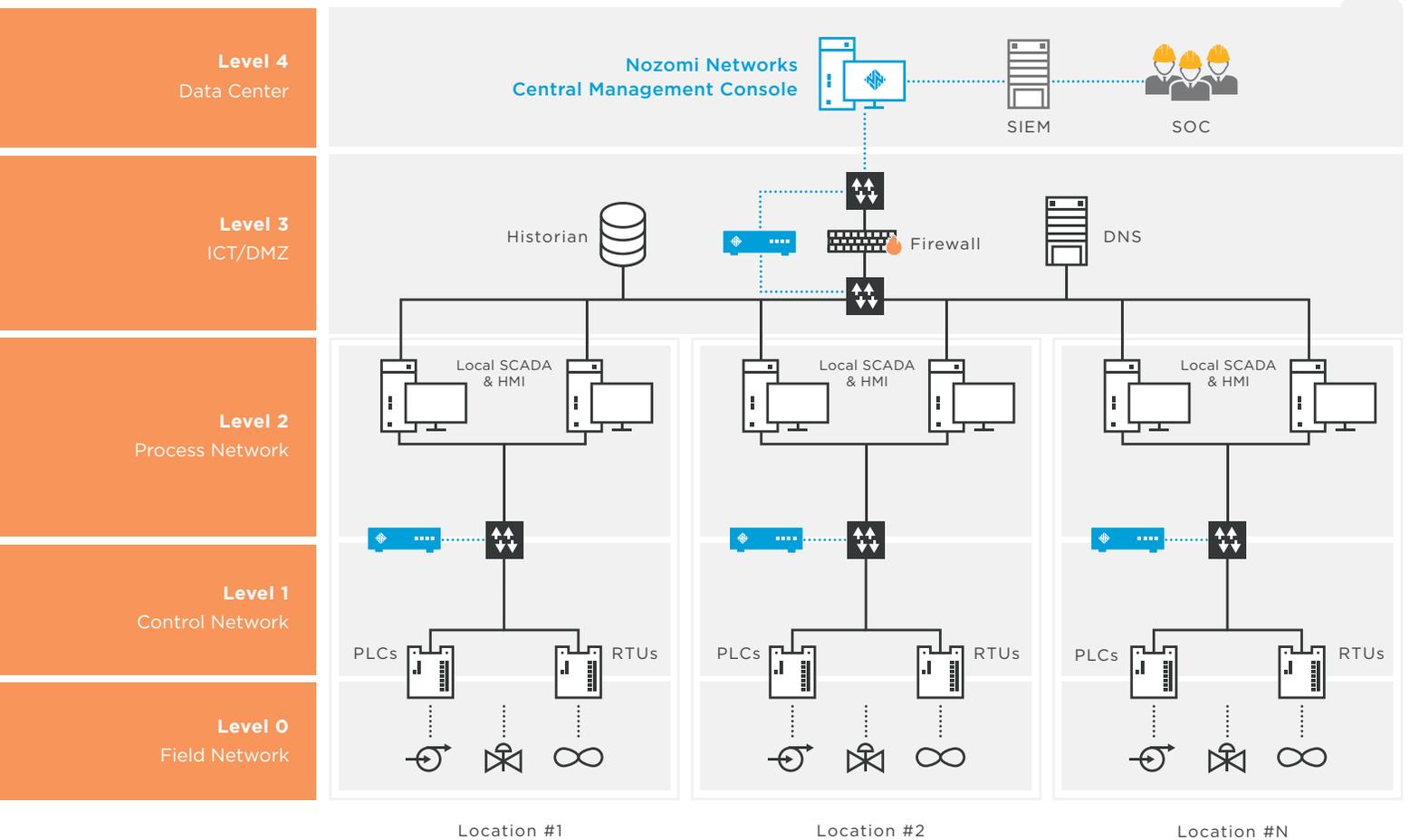
### Value Delivered to Energy, Utility and Manufacturing Leaders

- Proven solution with large-scale, global deployments.
- Broad applicability with support for many ICS protocols and a wide range of industrial and automation vendor devices.
- Endorsed by customers, analysts and partners including VARs, SIs and device manufacturers.

## Solution Architecture



## Sample Architecture



## The Nozomi Networks Advantage

Up to now cybersecurity solutions have involved cumbersome manual configurations, a requirement that doesn't fit with the complexity of industrial installations. Nozomi Networks' technology, on the other hand, combines recent advances in AI (artificial intelligence) and machine learning with in-depth ICS knowledge. The result is a solution that automatically models and monitors large, heterogeneous industrial systems.

Let SCADAguardian automate the hard work of knowing and monitoring your ICS - providing you with the real-time visibility and detection you need to ensure cyber resilience and high availability.

## About Nozomi Networks

Nozomi Networks is revolutionizing Industrial Control System (ICS) cybersecurity with the most comprehensive platform to deliver real-time cybersecurity and operational visibility. Since 2013 the company has innovated the use of machine learning and artificial intelligence to meet the unique challenges of critical infrastructure operations. Nozomi Networks delivers both cybersecurity and process anomaly detection along with industrial network visualization and monitoring, asset inventory, and vulnerability assessment. Deployed in the world's largest industrial installations, customers benefit from enhanced cybersecurity and improved operational reliability with one end-to-end solution. Nozomi Networks is headquartered in San Francisco, California. [www.nozominetworks.com](http://www.nozominetworks.com)