

SOLUTION BRIEF

Real-time Cyber Security and Visibility for Industrial Control Networks

See and Secure Your Industrial Networks

Superior Operational Visibility

Accurately visualize your industrial networks and improve resilience with real-time asset inventory and network monitoring.

Best-in-Class ICS Threat Detection

Rapidly manage cyber threats and process risks with a solution that correlates multiple, advanced detection techniques.



Most Global Installations

Centrally monitor hundreds of facilities with a solution proven to scale across continents and integrate with IT/OT systems.

Nozomi Networks is the leader of industrial cyber security, delivering the best solution for real-time visibility to manage cyber risk and improve resilience.

With one solution, our customers gain:

- Advanced cyber security
- Improved operational reliability
- Easy IT/OT integration

Through the innovative use of artificial intelligence (AI), we help the largest industrial facilities around the world See and SecureTM their critical control networks.

Today Nozomi Networks supports over a quarter of a million devices in sectors such as:





Transportation





Mining

±



Let our advanced solution automate the hard work of inventorying, visualizing and monitoring your industrial control networks.

You benefit from the real-time visibility and threat detection needed to ensure high cyber resiliency and reliability.

DEPLOYMENTS INCLUDE



Hydro-generation Plants



420+ Gas Distribution Locations

300+ Electric Distribution Sites

#thosewhoknowpicknozomi

Leverage Our Global Expertise



1,000+ Installations Across 5 Continents





40+ System Integrators and VARs



100+ Trained and Certified Partners

OUR OFFICES



FORTUNE 500 CUSTOMERS

#1 Global Electric UtilityTop 3 Energy Companies

Major Multinational Deployments





STRATEGIC PARTNERS

accenture



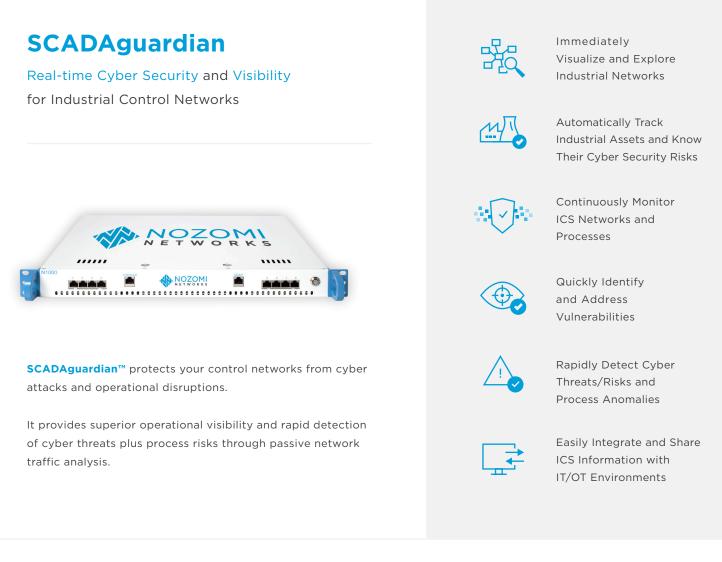
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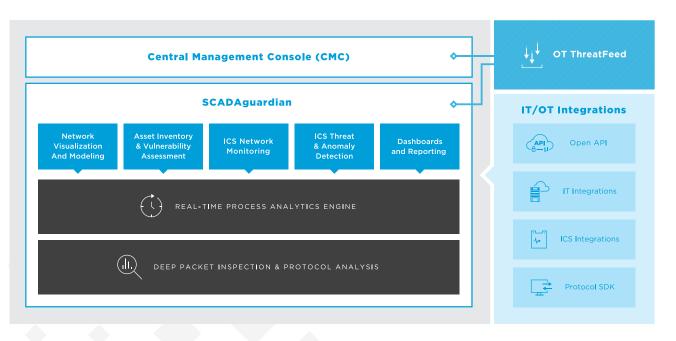


GE Power



...and more





Nozomi Networks Solution Architecture - SCADAguardian Edition

The award winning Nozomi Networks solution improves cyber resiliency and reliability via a modular, extensible and scalable architecture.

Immediately Visualize Your Industrial Network

Real-time Network Visualization

- · Improves system awareness and understanding of network structure and activity
- Displays key information such as traffic throughput and TCP connections

Flexible Navigation and Filtering

- Shows macro views + detailed information on endpoints and connections
- Filters by subnets and network segments, or presents topologies





Quickly Detect Threats to Your ICS or SCADA System

(Up-to-the-Minute Threat Detection

- Identifies cyber security and process reliability threats at all times
- Detects attacks in process, early stage advanced threats and cyber risks

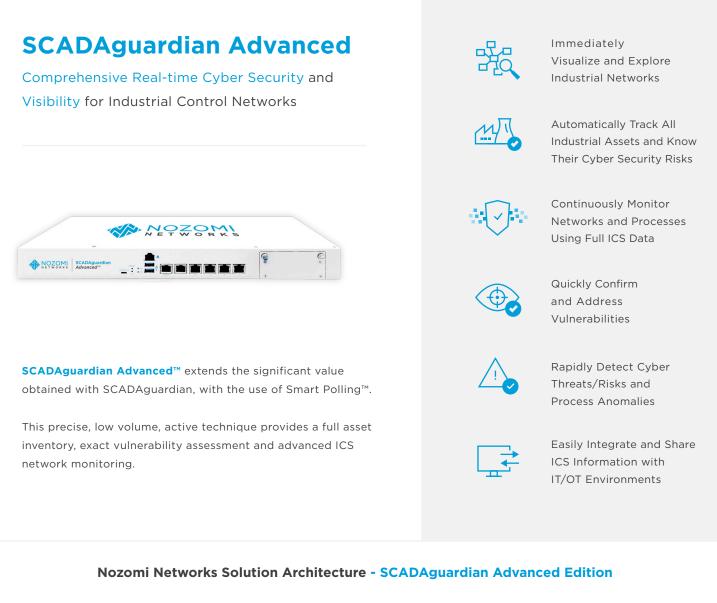
Best-in-Class ICS Threat Detection

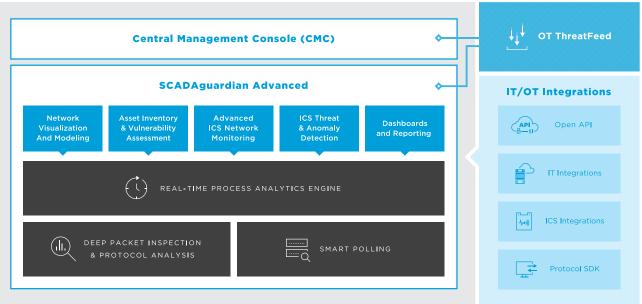
- Uses multiple, hybrid techniques for comprehensive risk detection
- Ensures current monitoring when integrated with optional OT ThreatFeed[™]

Multiple Appliance Formats for Every Type of Deployment

			P	hysical Appliances				
Series	NSG-M		NS	NSG-R				
Model	1000	75	50	250	100	15	0	50
Description		Rack-mounted appliances for large scenarios		Rack-mounted appliances for medium scenarios		Ruggedized appliances for medium or small scenarios		
Monitoring Ports	7 RJ45 + 4 SFP	7 RJ45	+ 4 SFP	5 RJ45	5 RJ45	7 R.	J45	4 RJ45
Max. Protected Nodes	10,000	2,5	00	750	300	50	00	200
			N	/irtual Appliances				
Model	V1000			V750	V250		V100	
Description			virtual appliance large scenarios	A virtual appliance for medium scenarios		A virtual appliance for small scenarios		
Monitoring Ports	Unlimited			4 4		4		4
Max. Protected Nodes	5,000			1,000	500		200	

A portable appliance, suitable for temporary scenarios, is also available. **Contact us** for more information. See **nozominetworks.com/techspecs** for current and complete appliance details.





Smart Polling safely identifies a full set of ICS data, improving asset inventory, vulnerability assessment and network monitoring.

Automatically Track Your Industrial Assets and Know Your Vulnerability Risks

Full Asset Inventory

- Provides a full set of asset inventory providing accurate deep details
- Identifies firmware versions and their patch levels

Automated Vulnerability Assessement

- Identifies and confirms which vendors devices are vulnerable
- Optimizes workflows with informative dashboards and drilldowns

Product name: Vendor: Boles MAC address	 Controll-ogia 1756-DARTA Rockwell Automation/Aren-Bradiey silver 0000-298-35552 			2225 024132 046132
		Selector/bb 3 & & # 8 # 6 C @ REXEAS2 > Main - Main	erre ph 0405 8004332 0002343232.even/revel Model of 200232.even/revel Phote of 200232. Revel Rev	B T156 PAGE DECADAVCY MODULE (Address 1) device sport firmware period 20004
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	-			-



Continuously Monitor Your Network and ICS

Real-time Network Visualization

- Improves situational awareness and speeds troubleshooting
- Shows macro views of the network plus detailed information

Advanced ICS Network Monitoring

- Monitors assets and network behavior for cyber security and reliability risks
- Uses full ICS data to monitor for threats and anomalies

Compare SCADAguardian Advanced to SCADAguardian

Functionality	Network Analysis	Asset Inventory	Vulnerability Assessment	Network Monitoring & Threat Detection	Deployment
SCADAguardian Advanced	Passive + Active Smart Polling	Identifies All Assets	Confirms Vulnerabilities	for All Assets & ICS Data	Requires Routable IP Address · Installed on Activated SPAN or Mirror Ports · Routing for Selected IPs Enabled
SCADAguardian	Passive	Identifies Communicating Assets	Identifies Vulnerabilities	for Communicating Assets & ICS Data	No Network Changes - Installed on Inactive SPAN or Mirror Ports - No Routing Required

Multiple Appliance Formats for Every Type of Deployment

			Physical Appliances				
Series	NSG-M		NS	G-L	NSG-R		
Model	1000A	750A	250A	100A	150A	50A	
Description	Rack-mounted appliances for large scenarios			Rack-mounted appliances for medium scenarios		Ruggedized appliances for medium or small scenarios	
Monitoring Ports	7 RJ45 + 4 SFP	7 RJ45 + 4 SFP	5 RJ45	5 RJ45	7 RJ45	4 RJ45	
Max. Protected Nodes	10,000	2,500	750	300	500	200	
Virtual Appliances							
Model	V1000A V750 V250A V100A					V100A	
Description			virtual appliance or large scenarios	A virtual appliar for medium scena		A virtual appliance for small scenarios	
Monitoring Ports	Unlimited		4	4		4	
Max. Protected Nodes	5,000		1,000	500		200	
		SCADAguard	lian Advanced Contain	ner Edition			
Description	Embedded container application for switches, routers and other security infrastructure. Fast, flexible deployment option that leverages hardware units.						

Central Management Console

Consolidated OT Cyber Security and Visibility Across Distributed Industrial Sites



Easily manage cyber security for hundreds of distributed industrial installations with the **Central Management Console™ (CMC)**.

It provides consolidated and remote access to your ICS data from SCADAguardian and SCADAguardian Advanced appliances.



Centrally Monitor and Secure Distributed Industrial Facilities



Immediately Visualize and Explore Industrial Networks



Quickly Identify OT Threats and Vulnerabilities



Easily Integrate and Share ICS Information with IT/OT Environments



Significantly Reduce Troubleshooting and Forensic Efforts



Reliably Monitor Hundreds of Facilities, Thousands of Devices



Centralized Monitoring of Distributed Industrial Facilities

Aggregated Summaries / Details by Remote Site

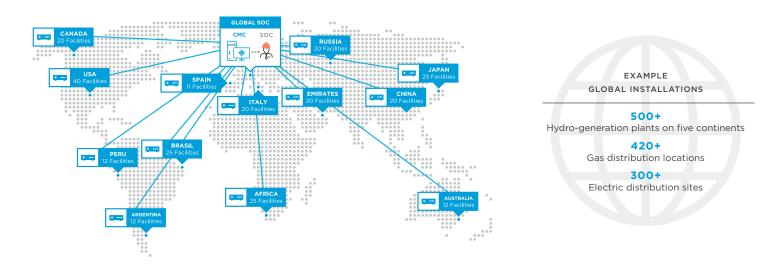
- Shows a geographic map of your SCADAguardian and SCADAguardian Advanced appliances, including risk level by site
- Enables a fast understanding of key metrics, such as alerts, incidents, vulnerabilities and more
- Supports drilldown on visual indicators for detailed information
- Displays dashboards, charts and queries relevant to your organization

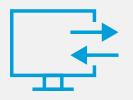
The Virtual, Multitenant CMC is Easy to Deploy and Scale

Summary	Consolidated and remote ICS cyber security and visibility for distributed industrial sites.
Installation Specs	Amazon AWS AMI, Hyper-V 2012+, KVM 1.2+, VMware ESX 5.x+, XEN 4.4+
Max. Managed Appliances	Unlimited (*)

(*) Based on infrastructure. See nozominetworks.com/techspecs for current and complete appliance details.

Sample Deployment Map: Centrally Monitor and Secure Many Facilities





Easily Integrate / Share Information with IT/OT Environments

- Includes built-in integrations for asset management systems, firewalls, identity management systems, SIEMs and more
- Supports dozens of IT/OT protocols
- Extends further with Open API and Protocol SDK
- See website for current details

Central Management Console

OT ThreatFeed

OT ThreatFeed is an **optional subscription** that delivers threat updates, making it easy for IT/OT teams to stay on top of current ICS risks.

Convenient OT ThreatFeed Service

Timely Threat Updates

- Provides indicators of known and emerging threats and vulnerabilities
- Curates, tests and adapts ICS threat information from multiple sources, including threats and vulnerabilities discovered by Nozomi Networks

Actionable Threat Remediation Insights

• Decreases response time with Smart Incident[™], which correlates alerts, provides operational context and delivers automatic packet captures



Regularly Receive OT Threat and Vulnerability Updates

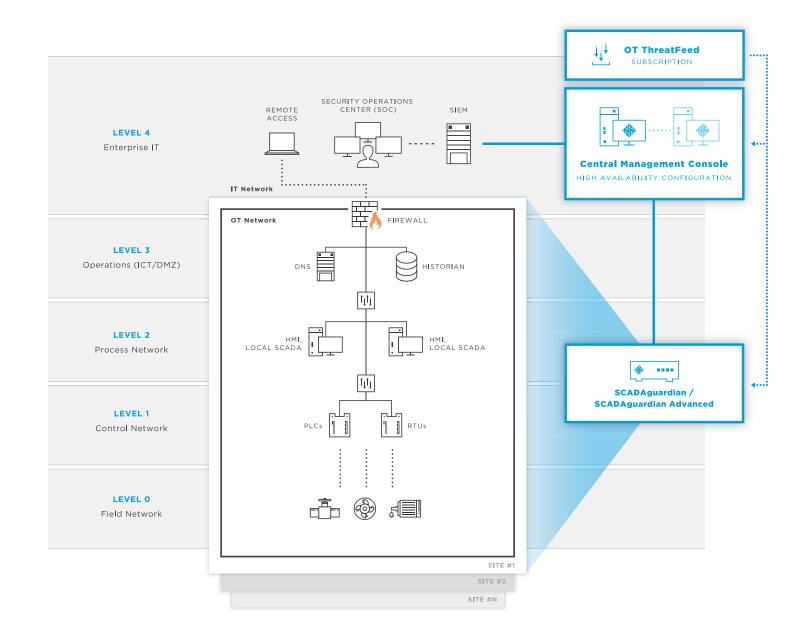


Quickly Identify New Risks to Your Industrial Systems

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Rapidly Respond with Actionable Insights

Nozomi Networks Solution Sample Deployment Architecture





Shown above is a general example of how the Nozomi Networks solution can be deployed. A wide variety of appliances, a flexible architecture, and integrations with other systems allow us to provide a solution tailored to meet the needs of your organization.

What to Look for in a Real-time ICS Visibility and Cyber Security Solution

While increasing cyber threats dominate the news, there is reason to be optimistic.

New technology, such as the **Nozomi Networks solution**, is easy and safe to deploy, dramatically improves OT cyber security and integrates seamlessly with IT infrastructure.

When considering such a solution, make sure it has the advantages shown here.

- **⊘** Accurate OT Operational Visibility
- Advanced ICS Threat Detection
- **Original Proven, Large-Scale Global Installations**
- Swift Deployment Across Many Sites
- **Global Partner Ecosystem**
- **⊘** Easy IT/OT Integration
- **(** Extraordinary Customer Care



See the Nozomi Networks Solution in Action

If you would like to see our solution in action, and experience how easy it is to work with Nozomi Networks, please contact us at **nozominetworks.com/contact**

Want to Know More?



For detailed information about our products, visit

www.nozominetworks.com





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