

# Nozomi Hour

The latest OT/loT cybersecurity industry updates and insights

### 04.2025 - 06.2025

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Industrial Cybersecurity Evangelist, Nozomi Networks

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## **Introduction / Anton Shipulin**

- An Industrial Cybersecurity Evangelist at Nozomi Networks, NNCE, NNSA
- A professional with 15+ years of experience in Industrial Cybersecurity
- A coordinator for the Middle East at the Spain-based Industrial Cybersecurity Center
- A contributor to multiple industrial cybersecurity **community projects**
- Certified SCADA Security Architect (CSSA), CISSP



# Agenda

### 04.2025 – 06.2025

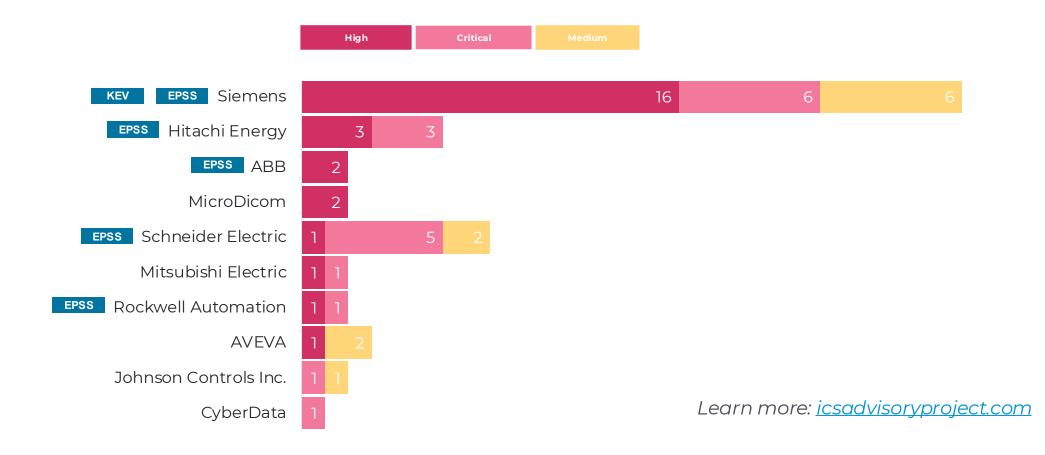
- 1. OT/IoT threat landscape updates: incidents, vulnerabilities, and attack techniques
- 2. OT/IoT security **regulation, standards**, and frameworks news
- 3. OT/IoT security **technology trends, research, tools**, and best practices
- 4. A dedicated **discussion** for company-specific interests and concerns



Threat landscape updates
 Regulation news
 Technology trends
 Discussion time

### **OT Vulnerability Snapshot**

Number of CISA ICS Advisories by Vendor and CVSS Severity





## **Vulnerability Prioritization Example / Vantage**

Assets with KEVs			CVE	criticality vs ex	ploitability				Assets with exploitable CVEs		
Asset	KEVs	%		Low	Medium	High	Critical		Asset	CVEs	%
Catalyst 4500 Series	34	33.7%		0	2	2	90		Catalyst 4500 Series	496	21.6%
iPad Pro 12.9" 2nd Gen (Wi-Fi)	33	32.7%	≥				75		iPad Pro 12.9" 2nd Gen (Wi-Fi)	483	21.1%
🗯 iPad	33	32.7%	tabili	0	2	0	1 50		🗯 iPad	483	21.1%
EC2AMAZ-UGLRFRT	1	1.0%	Exploitability	0	0	2	92		segneder plc179.ACME0.corporationnet.com	60	2.6% •
			ŵ				25		segneder plc160.ACME0.corporationnet.com	60	2.6% •
				160	1.33K	2.46K	577		segneder plc180.ACME0.corporationnet.com	60	2.6% •
				Criticality				schneider plc167.ACME0.corporationnet.com	60	2.6% 😐	
Open KEVs									High EPSS score open CVEs		
KEV	Assets	%		Open CVEs 4.71K				CVE	Assets	%	
CVE-2021-1782	3	3.0%					_	CVE-2019-12255	90	92.8%	
CVE-2020-27930	3	3.0%		Critical <b>760</b>		High score			CVE-2016-3115	1	1.0%
CVE-2020-27932	3	3.0%				3.22K			CVE-2016-6210	1	1.0%
CVE-2020-27950	3	3.0%		CVSS sco	ore≥9	CVSS	score≥7		CVE-2016-6515	1	1.0%
CVE-2020-9934	3	3.0%				_			CVE-2018-15473	1	1.0%
CVE-2021-1789	3	3.0%		кеv <b>101</b>		Exploitable 97			CVE-2023-38408	1	1.0%
					-						



## Mandiant Threat Report / M-Trends 2025

Data, Insights, and Recommendations From the Frontlines

#### **Most Frequently Exploited Vulnerabilities**





Initial Infection Vector, 2024 Ransomware-Related



#### Learn more: <u>https://cloud.google.com/blog/topics/threat-intelligence/m-trends-2025</u>

Initial Infection Vector, 2024



### **Notable Public Cyber-Physical Incidents**



#### USA / Manufacturing

April 2025. A ransomware attack disrupted operations at **Sensata Technologies**, a global industrial sensor and controls manufacturer. The incident temporarily impacted critical business functions including shipping, receiving, manufacturing, and support services.



### USA / Manufacturing

April 2025. A cyberattack caused production slowdowns at **Masimo Corporation**, a health technology manufacturer. Several facilities operated below normal capacity, leading to delays in processing, fulfilling, and shipping customer orders.



May 2025. Following a cyberattack involving unauthorized access to IT systems, **Nucor Corporation**, a leading steelmaker, temporarily halted production at multiple sites. The shutdown was a precautionary response to protect operations and data integrity.

All cybersecurity incidents were disclosed through an 8-K filing submitted to the U.S. Securities and Exchange Commission (SEC).

Sources:

- <u>https://icsstrive.com</u>
- https://eurepoc.eu



### **Notable Threat Reports with TTPs & IoCs**

#### Microsoft

### Void Blizzard targets critical sectors for espionage

https://www.microsoft.com/en-us/security/blog/2025/05/27/new-russiaaffiliated-actor-void-blizzard-targets-critical-sectors-for-espionage/

#### Fortinet

#### Investigating Iranian Intrusion into Strategic Middle East Critical Infrastructure

https://www.fortinet.com/blog/threat-research/fortiguard-incident-responseteam-detects-intrusion-into-middle-east-critical-national-infrastructure

#### **Cisco Talos**

#### Newly identified wiper malware "PathWiper" targets critical infrastructure in Ukraine

https://blog.talosintelligence.com/pathwiper-targets-ukraine

#### **US CISA**

#### Russian GRU Targeting Western Logistics Entities and Technology Companies

https://www.cisa.gov/news-events/cybersecurity-advisories/aa25-141a



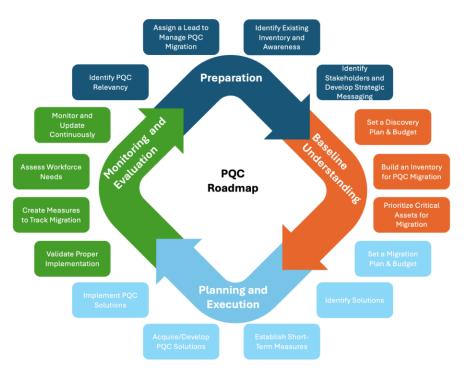
### 1. Threat landscape updates

- 2. Regulation news
- Technology trends
   Discussion time



### **Post-Quantum Cryptography (PQC) Migration Roadmap**

- **Preparation:** Learn how to identify relevant stakeholders, assess vulnerabilities, and align organizational goals with migration timelines.
- **Baseline Understanding:** Develop an inventory of cryptographic assets and prioritize critical resources.
- **Planning and Execution:** Acquire or develop quantum-safe solutions and implement them with precision.
- **Monitoring and Evaluation:** Establish robust tracking measures and continuously assess cryptographic security as quantum threats evolve.



Learn more: https://www.mitre.org/news-insights/news-release/post-quantum-cryptography-coalition-unveils-pqc-migration-roadmap



Threat landscape update
 Regulation news

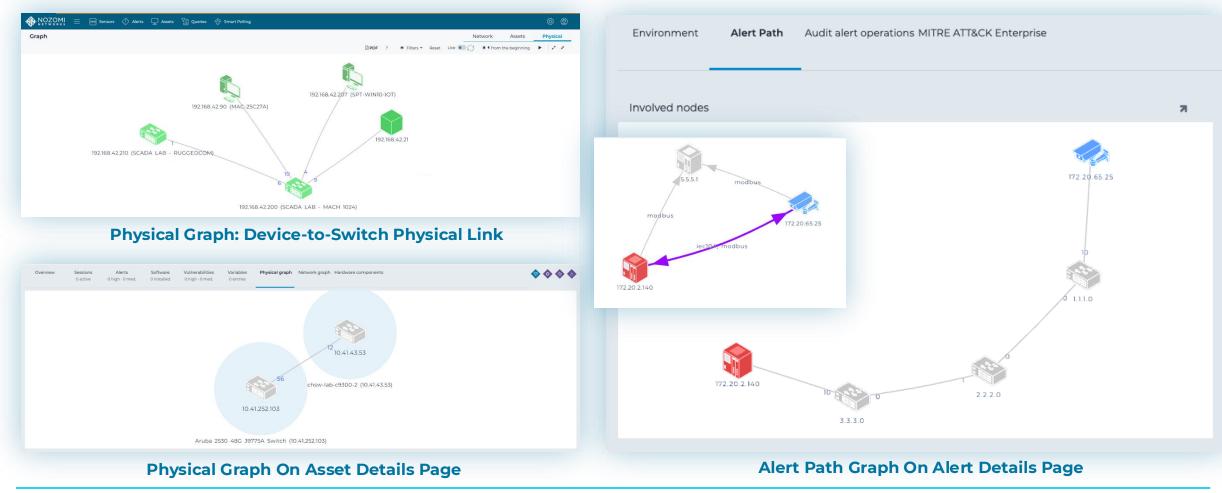
**3. Technology trends** 

### 4. Discussion time



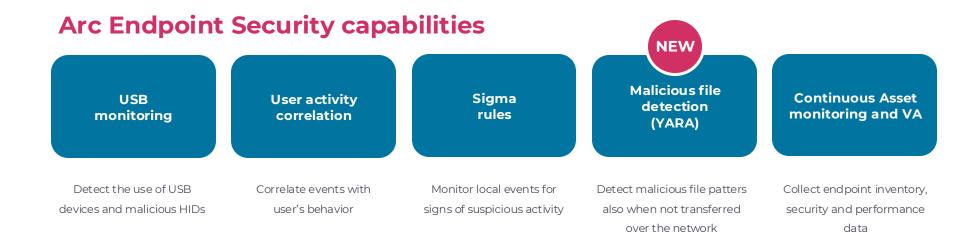
## Nozomi Networks / Physical Network Mapping

Trace physical connections from assets to network infrastructure

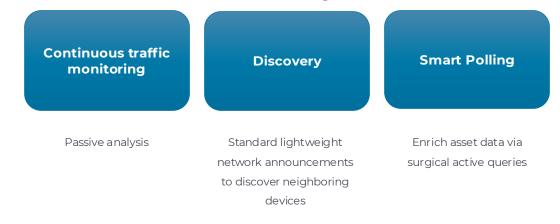




## Nozomi Arc / Malicious file detection (YARA)



#### **Arc Network Sensor capabilities**





Arc

## Nozomi Networks Academy Video / Alert Tuning

Learn how to tune alerts to better fit your needs and avoid alert fatigue

	What is Alert Tuning? Provides an overview of alert tuning.		Security Profiles (Advanced) Provides an advanced look at security profiles.
► 五	Methods of Alert Tuning Introduces common methods of tuning alerts.		<b>Tuning Rules</b> Introduces how different rules can affect how alerts trigger.
	Detection Approach Introduces common detection approaches.		Tuning Rules (Advanced) Provides an advanced look at tuning rules.
	Security Profiles Introduces how security profile changes affect alerts.		Thresholds Introduces how different threshold settings affect alerts.

#### Learn more: <u>https://academy.nozominetworks.com/path/alert-tuning-essentials</u>



## **Nozomi Networks Professional Services Offering**

Post- Deployment
Access to Deep Expertise

Optimization	40 hours bundle for flexible access to Professional Services'
Services	expertise to be consumed in 12 months
Health Check	Operational Checks, Architectural Assessments, and Alert
Services	Reviews performed twice a year at regular cadence.





New

Operational PlatformTailored operational services based on the customer's needs andStatement of Workbudget through a fixed Price SOW

Designated Engineer

er Part-Time (8hrs/w) or Full Time (40hrs/w) resource acting as an extended part of customer's team

New Nozomi PS service offering available from the 1st of July 2025



## **Nozomi Hour / Slide Decks and Recordings**





Threat landscape updat
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 **4. Discussion time**







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# **Thank You!**

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.

nozominetworks.com

