

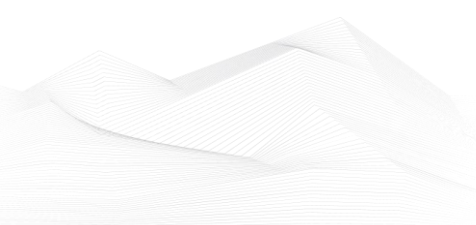


## 2025 May, Industrial Control Systems security feed

Black Cell is committed for the security of Industrial Control Systems (ICS) and Critical Infrastructure, therefore we are publishing a monthly security feed. This document gives useful information and good practices to the ICS and critical infrastructure operators and provides information on vulnerabilities, podcasts, trainings, conferences, books, and incidents on the subject of ICS security. Black Cell provides recommendations and solutions to establish a resilient and robust ICS security system in the organization. If you're interested in ICS security, feel free to contact our experts at [info@blackcell.io](mailto:info@blackcell.io).

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ICS good practices, recommendations

## **Improve Password Hygiene: Strategic Authentication Management for Industrial Systems**

*May 1st is World Password Day in 2025. A recent entry on the TeamPassword Blog addresses the security of passwords in Industrial Control Systems (ICS), which remains a complex and challenging topic. We recommend reviewing this section of the blog and evaluating which aspects may be applicable and implementable within our organization.*

Password management in industrial control systems involves unique challenges stemming from legacy systems, shared workstations, and operational requirements that don't align well with traditional IT password policies. An effective ICS password strategy must balance security requirements with operational realities.

Industrial-Specific Password Challenges and Solutions:

**Legacy Systems with Limited Authentication Options:** Many older control systems have significant password limitations - some accept only numeric passwords, have maximum length restrictions, or don't support special characters. Others store passwords in plaintext or use weak hashing algorithms.

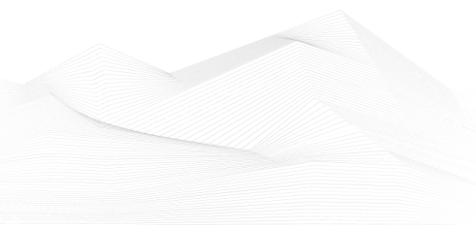
For these systems:

- Implement compensating controls like network isolation and strict access control
- When possible, place authentication proxies in front of systems with weak password mechanisms
- For devices that cannot support strong passwords, implement physical security controls to prevent direct access

**Default and Hardcoded Credentials:** Industrial devices often ship with default credentials documented in publicly available manuals. Worse, some have hardcoded passwords that cannot be changed.

Address this by:

- Creating a comprehensive default credential inventory during commissioning
- Changing all changeable default passwords immediately upon installation
- Isolating devices with unchangeable credentials into strictly controlled network segments
- Using network-based controls to restrict authentication attempts to these devices





Shared Workstation and Credential Management: Control rooms and operator stations are typically shared among multiple personnel across shifts, complicating individual accountability.

Effective approaches include:

- Implementing time-synchronized shift-change password procedures
- Using role-based rather than individual accounts for operator functions, with enhanced logging
- Deploying industrial-focused privileged access management (PAM) solutions that vault credentials for shared systems
- Creating audit mechanisms that associate specific actions with individuals through secondary authentication for critical operations

Emergency Access Procedures: Industrial environments require rapid response during emergencies, when normal authentication processes might impede necessary actions.

Design emergency authentication with:

- Physical break-glass procedures that provide emergency credentials
- Automated notifications when emergency credentials are used
- Post-incident auditing and credential rotation
- Regular drills to ensure emergency authentication processes function correctly

Password Rotation Strategies: Traditional 90-day password rotation isn't always practical in industrial environments where system access is infrequent but critical.

Consider alternatives like:

- Event-based rotation (after vendor maintenance or personnel changes) rather than time-based rotation
- Using longer, more complex passwords with less frequent rotation for rarely accessed systems
- Implementing one-time passwords for vendor and contractor access
- Separating standard operational passwords from administrative credentials, with stricter policies for the latter

By developing password policies specifically designed for industrial operational realities, you create security that enhances rather than hinders essential functions while still providing effective protection against unauthorized access.

Source (the TeamPassword solution recommendation) and more detailed information available on the following link:

<https://www.enisa.europa.eu/publications/enisa-nis360-2024>





## ICS conferences

In June 2025, the following ICS/SCADA security conferences and workshops will be organized (not comprehensive):

### **ICS Security Summit & Training 2025**

The 20th Annual SANS ICS Security Summit will be an event to remember! Held at Disney World, this milestone gathering offers something for everyone - from introductory learning for those new to ICS/OT security to advanced insights and techniques for seasoned practitioners. Experience in-depth talks, immersive hands-on workshops, and practical takeaways led by the industry's top experts.

Create core memories with your peers in the ICS/OT community and your family during a magical getaway. Extend the experience with world-class training courses immediately after the Summit to further build your expertise.

Lake Buena Vista, FL, US and Virtual - ET; 3-Day Summit: 15<sup>th</sup> -17<sup>th</sup> June | Courses: 18<sup>th</sup> -23<sup>rd</sup> June 2025

More details can be found on the following website:

<https://www.sans.org/cyber-security-training-events/ics-security-summit-2025/>

### **OT Cybersecurity Summit**

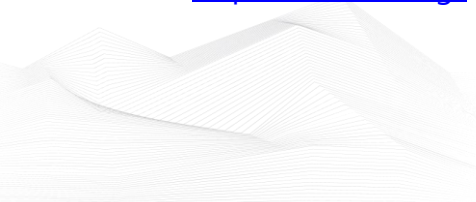
Threat Intelligence plays a crucial role in the ongoing advancement of automation by enabling the development of more sophisticated, adaptive, and efficient systems. As automation technologies continue to evolve, integrating advanced intelligence capabilities, such as machine learning, artificial intelligence and predictive analytics, is becoming increasingly important. As the industrial landscape rapidly evolves, ensuring the security of operational technology (OT) systems is paramount. A critical component of this is safeguarding the supply chain, which has become a prime target for cybercriminals seeking to exploit vulnerabilities.

Focus on enhancing the security of your network and information systems and build confidence in your OT cybersecurity plan and learn to anticipate new challenges.

Brussels, Belgium; 18<sup>th</sup> – 21<sup>st</sup> June 2025

More details can be found on the following website:

<https://otcs.isa.org/>





## **23<sup>rd</sup> Global Edition OTSEC MENA**

With the steady adoption of IoT and personal connected devices, it's reported an increase of over 4-fold in IoT malware attacks year-over-year in the Middle East region. The growth in cyber threats demonstrates cyber criminals' persistence and ability to adapt to evolving conditions in launching IoT malware attacks.

Cybercriminals are targeting legacy vulnerabilities, with 34 of the 39 most popular IoT exploits specifically directed at vulnerabilities that have existed for over three years. The biggest receiver of these attacks has been manufacturing, followed by oil & gas, Power grids and maritime.

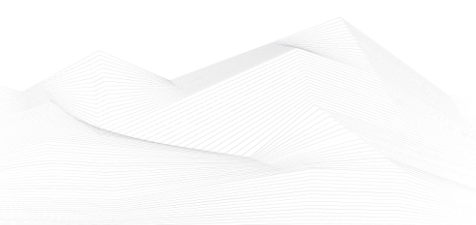
Secured Managed Services and Ai will play a key role in the future of cyber security; however, it remains that it's not the task of the security team alone. It's an effort by everyone working within those organisations.

Join CISOs, Heads of OT and ICS Security from MENA region on 24<sup>th</sup>-25<sup>th</sup> June 2025, Saudi Arabia, to discuss key challenges and opportunities in OT, IOT, IIOT & IOMT Cyber Security for Critical Infrastructure and key sectors at OTSEC MENA SUMMIT & AWARDS 2025.

Al Khobar, Saudi Arabia; 24<sup>th</sup> – 25<sup>th</sup> June 2025

More details can be found on the following website:

<https://otsecsummit.com/#>





## ICS incidents

### **Ransomware Attack Hits Sensata Technologies, Disrupting Global Operations**

Massachusetts-based industrial technology manufacturer Sensata Technologies experienced a significant ransomware attack over the weekend, resulting in widespread disruption to its operations, including production outages.

In a disclosure to the U.S. Securities and Exchange Commission (SEC), Sensata confirmed that the attack began on another day and led company officials to take entire network systems offline to contain the damage. The incident has impacted several critical business areas, such as manufacturing production, shipping, receiving, and various support functions. While interim measures have been put in place to restore limited functionality, a timeline for full recovery remains uncertain.

The company's preliminary internal investigation revealed that attackers were able to exfiltrate files from the corporate network. Cybersecurity experts have been engaged to assist in containment, recovery, and the identification of stolen data. Notifications will be issued should any personal or sensitive data be confirmed as compromised.

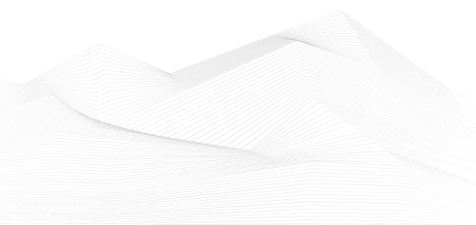
Sensata, which operates in a dozen countries and employs over 19,000 people, produces sensors, electrical protection devices, and control systems across the automotive, aerospace, heavy equipment, and industrial sectors. With annual revenues nearing \$4 billion, the company ships roughly 1 billion products annually.

While Sensata currently does not anticipate a material financial impact from the attack this quarter, it acknowledged that this assessment may change depending on the extent of the disruption and ongoing recovery efforts. Importantly, the production halt - along with other operational delays - could have cascading effects across its global supply chains.

As of the latest update, no ransomware group has claimed responsibility for the attack.

The source is available on the following link:

<https://therecord.media/sensata-technologies-ransomware-attack>





## **Cyber attack disrupts operational systems at South African Airways**

On May 3rd, 2025, South African Airways (SAA) experienced a major cyber incident that temporarily disrupted access to its website, mobile app, and several internal systems. The airline swiftly activated its disaster recovery and business continuity plans, which effectively contained the incident and minimized disruption to flight operations. Essential customer services, including contact centers and sales offices, remained functional, and normal system operations were restored the same day.

SAA launched a thorough investigation with independent digital forensic experts to determine the root cause and assess the extent of the breach. The possibility of external cybercriminal activity is being explored. While it remains unclear whether personal data was accessed or exfiltrated, SAA has committed to notifying affected parties in accordance with regulatory requirements if a data breach is confirmed.

John Lamola, Group CEO of SAA, reassured stakeholders of the airline's commitment to cybersecurity and operational resilience. He emphasized that SAA is taking all necessary steps to strengthen its security framework and mitigate future risks.

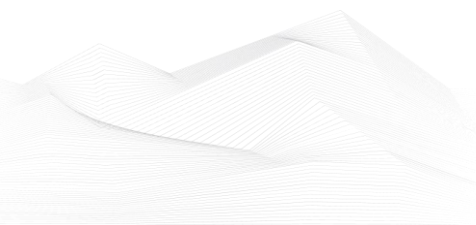
As a National Key Point, SAA reported the incident to the State Security Agency (SSA), South African Police Service (SAPS), and the Information Regulator, in compliance with the Protection of Personal Information Act (POPIA).

The SAA incident follows a growing trend of cyberattacks in South Africa in early 2025. MTN Group recently disclosed a data breach affecting customer information, though core systems remained secure. Other victims of cyberattacks this year include the national weather service, the country's largest poultry producer, and major tech firm Masimo Corporation, which reported unauthorized access affecting its manufacturing systems in late April.

These incidents highlight the growing cybersecurity challenges faced by key industries in South Africa.

The source is available on the following link:

[Cyber attack disrupts operational systems at South African Airways - Industrial Cyber](#)





## Book recommendation

### **Cybersecurity in the Electricity Sector: Managing Critical Infrastructure**

This book offers a systematic explanation of cybersecurity protection of electricity supply facilities, including discussion of related costs, relevant standards, and recent solutions. The author explains the current state of cybersecurity in the electricity market, and cybersecurity standards that apply in that sector. He then offers a systematic approach to cybersecurity management, including new methods of cybersecurity assessment, cost evaluation and comprehensive defence.

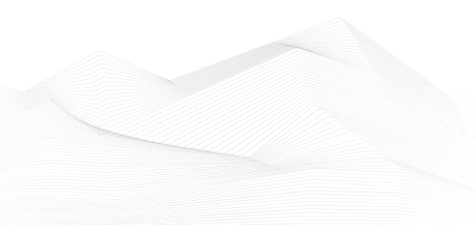
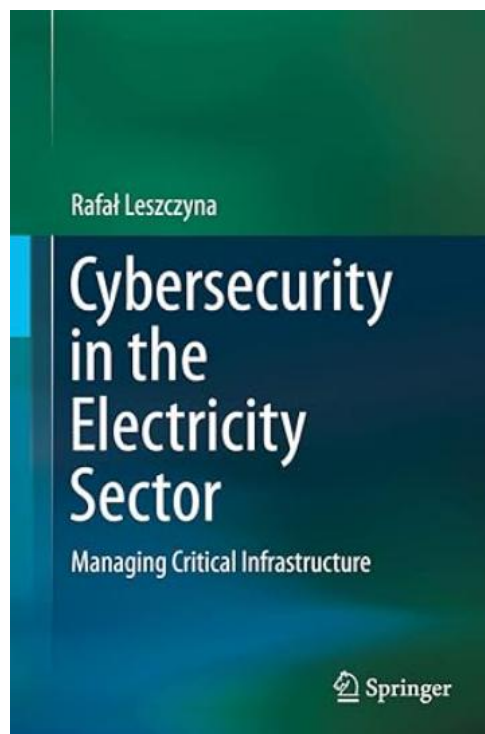
This monograph is suitable for practitioners, professionals, and researchers engaged in critical infrastructure protection.

Author/Editor: Rafał Leszczyna (Author)

Year of issue: 2019

The book is available at the following link:

<https://www.amazon.com/Cybersecurity-Electricity-Sector-Managing-Infrastructure/dp/3030195376>





## ICS security news selection

### **Many Fuel Tank Monitoring Systems Vulnerable to Disruption**

RSAC CONFERENCE 2025 – San Francisco – Internet-connected automatic tank gauges (ATGs) pose a serious but often overlooked cyber-risk to the thousands of gas stations, fuel depots, and facilities that rely on these devices to monitor tank levels, temperatures, leaks, and other critical operational parameters.

Pedro Umbelino, principal research scientist at Bitsight, is sounding the alarm on the issue at the 2025 RSAC Conference this week, warning that hackers could cause considerable chaos by tampering with ATGs. ...

Source and more information:

<https://www.darkreading.com/ics-ot-security/fuel-tank-monitoring-systems-vulnerable-disruption>

### **Build More Robust OT Security With the NIST Framework**

To combat escalating risks, numerous organizations look to the US National Institute of Standards and Technology (NIST) Cybersecurity Framework to protect their operational technology (OT) environments. It rests on six interrelated functions: Identify, Protect, Detect, Respond, Recover, and Govern.

The NIST Cybersecurity Framework: A Strategic Approach

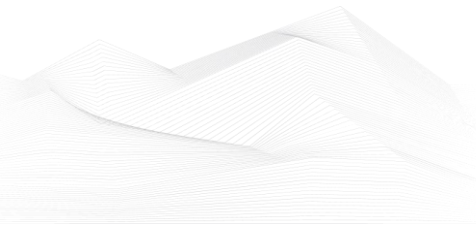
To apply the NIST Cybersecurity Framework successfully, you need to understand its six functions. ...

Source and more information:

<https://www.darkreading.com/ics-ot-security/build-more-robust-ot-security-nist-framework>

### **ISA-95 standard updated to integrate enterprise and manufacturing control systems**

The International Society of Automation published Apr. 10 its ANSI/ISA-95.00.01-2025 (IEC 62264-1 Mod), "Enterprise-control system integration—part 1: models and terminology." This is the latest update of the ISA-95 series, which are widely used,





international standards that describe how to integrate logistics systems with manufacturing control systems.

ANSI/ISA-95.00.01-2025, also known as ISA-95 Part 1, summarizes the scope of the manufacturing operations and control domain, discusses how physical assets of a manufacturing enterprise are organized, lists the functions associated with the interface between control functions and enterprise functions, and describes the information shared among these functions. ...

Source and more information:

<https://www.controlglobal.com/industry-news/news/55287684/isa-95-standard-updated-to-integrate-enterprise-and-manufacturing-control-systems>

### **ICS/OTUS Warns of Hackers Targeting ICS/SCADA at Oil and Gas Organizations**

Agencies say the attacks leverage basic intrusion techniques, but poor cyber hygiene within critical infrastructure organizations could lead to disruptions and damage.

The US cybersecurity agency CISA, the FBI, EPA, and the DoE on Tuesday issued an alert to warn organizations of cyberattacks targeting the country's oil and natural gas sector.

The observed attacks, the government agencies say, leverage basic intrusion techniques, but poor cyber hygiene within critical infrastructure organizations could lead to disruptions and even physical damage.

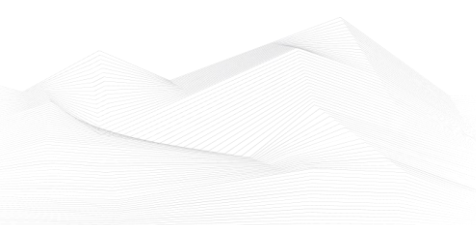
"CISA is increasingly aware of unsophisticated cyber actor(s) targeting ICS/SCADA systems within U.S. critical Infrastructure sectors (Oil and Natural Gas), specifically in Energy and Transportation Systems," the cybersecurity agency notes. ...

Source and more information:

<https://www.securityweek.com/us-warns-of-hackers-targeting-ics-scada-at-oil-and-gas-organizations/>

### **Unimicron, Presto Attacks Mark Industrial Ransomware Surge**

A number of major industrial organizations suffered ransomware attacks last quarter, such as PCB manufacturer Unimicron, appliance maker Presto, and more — a harbinger of a rapidly developing and diversifying threat landscape.





Attacks on major organizations such as Unimicron, the South African Weather Service (SAWS), National Presto Industries, and Lee Enterprises signaled a surge in ransomware across critical infrastructure sectors in the first quarter of 2025 — a trend that was exacerbated by a growth in the variety and sophistication of the tactics used.

That's according to security vendor Dragos, which noted in a report, released today, on attacks on critical infrastructure that ransomware is particularly rampant in the industrial and manufacturing sectors. ...

Source and more information:

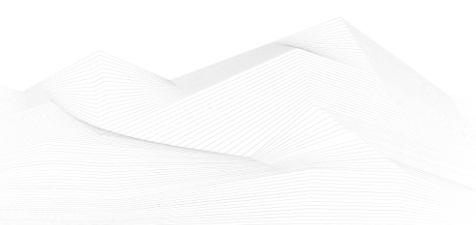
<https://www.darkreading.com/ics-ot-security/unimicron-presto-attacks-industrial-ransomware-surge>

### **Industrial cybersecurity leadership is evolving from stopping threats to bridging risk, resilience**

Creating industrial cybersecurity leadership involves fundamentally altering the mindset, one that mirrors the changing nature of the threat landscape and the increasing interdependence between OT (operational technology) and wider business risk. Where once upon a time cybersecurity was a technical matter, siloed from OT infrastructure, modern industrial environments tend to increasingly be digitized and connected, which has brought about the need for new leadership models. ...

Source and more information:

<https://industrialcyber.co/features/industrial-cybersecurity-leadership-is-evolving-from-stopping-threats-to-bridging-risk-resilience/>

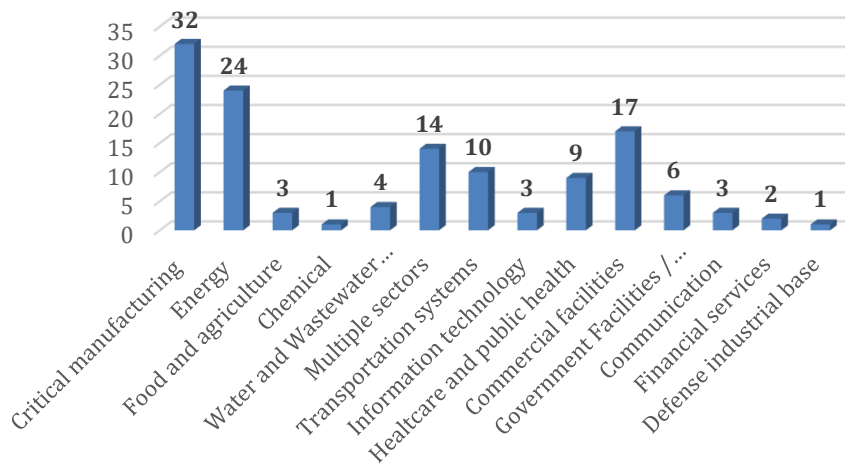




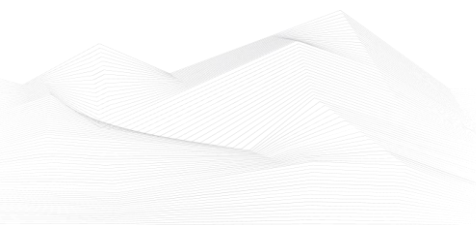
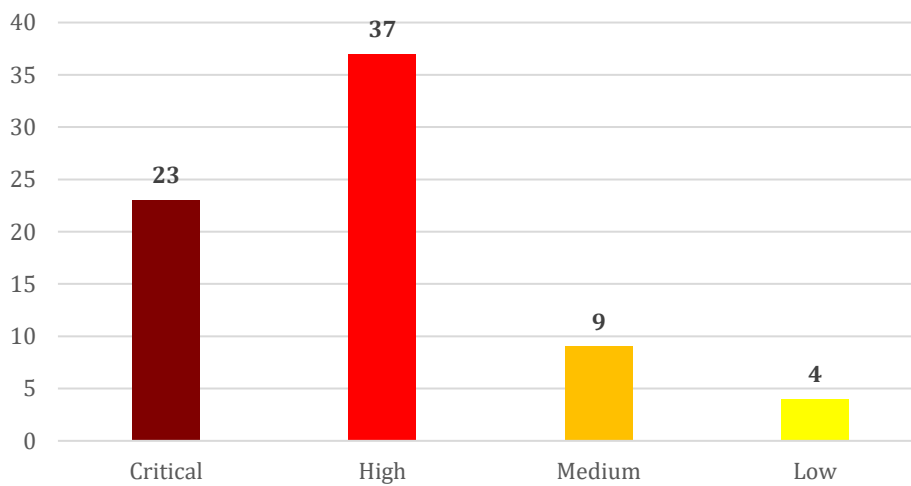
## ICS vulnerabilities

In May 2025, the following vulnerabilities were reported by the National Cybersecurity and Communications Integration Center, Industrial Control Systems (ICS) Computer Emergency Response Teams (CERTs) – ICS-CERT and Siemens ProductCERT and Siemens CERT:

Sectors affected by vulnerabilities in May



Vulnerability level distribution report





ICSA-25-148-01: **Siemens SiPass**

**High** level vulnerability: Improper Verification of Cryptographic Signature.

[Siemens SiPass | CISA](#)

ICSA-25-148-02: **Siemens SiPass Integrated**

**High** level vulnerability: Out-of-bounds Read.

[Siemens SiPass Integrated | CISA](#)

ICSA-25-148-03: **Consilium Safety CS5000 Fire Panel**

**Critical** level vulnerabilities: Initialization of a Resource with an Insecure Default, Use of Hard-coded Credentials.

[Consilium Safety CS5000 Fire Panel | CISA](#)

ICSA-25-148-04: **Instantel Micromate**

**Critical** level vulnerability: Missing Authentication for Critical Function.

[Instantel Micromate | CISA](#)

ICSMA-25-148-01: **Santesoft Sante DICOM Viewer Pro**

**High** level vulnerability: Out-of-bounds Read.

[Santesoft Sante DICOM Viewer Pro | CISA](#)

ICSA-25-146-01: **Johnson Controls iSTAR Configuration Utility (ICU) Tool**

**Medium** level vulnerability: Use of Uninitialized Variable.

[Johnson Controls iSTAR Configuration Utility \(ICU\) Tool | CISA](#)

ICSA-25-142-01: **Lantronix Device Installer**

**Medium** level vulnerability: Improper Restriction of XML External Entity Reference.

[Lantronix Device Installer | CISA](#)

ICSA-25-142-02: **Rockwell Automation FactoryTalk Historian ThingWorx**

**Critical** level vulnerability: Improper Restriction of XML External Entity Reference.

[Rockwell Automation FactoryTalk Historian ThingWorx | CISA](#)

ICSA-25-140-01: **ABUP IoT Cloud Platform**

**Medium** level vulnerability: Incorrect Privilege Assignment.





[ABUP IoT Cloud Platform | CISA](#)

ICSA-25-140-02: **National Instruments Circuit Design Suite**

**High** level vulnerabilities: Out-of-bounds Write, Out-of-bounds Read, Stack-based Buffer Overflow.

[National Instruments Circuit Design Suite | CISA](#)

ICSA-25-140-03: **Danfoss AK-SM 8xxA Series**

**High** level vulnerability: Improper Authentication.

[Danfoss AK-SM 8xxA Series | CISA](#)

ICSA-25-140-04: **Mitsubishi Electric Iconics Digital Solutions and Mitsubishi Electric Products**

**High** level vulnerability: Execution with Unnecessary Privileges.

[Mitsubishi Electric Iconics Digital Solutions and Mitsubishi Electric Products | CISA](#)

ICSA-25-140-05: **Siemens Siveillance Video**

**Medium** level vulnerability: Missing Encryption of Sensitive Data.

[Siemens Siveillance Video | CISA](#)

ICSA-25-140-06: **Schneider Electric PrismaSeT Active - Wireless Panel Server**

**Critical** level vulnerability: Buffer Copy without Checking Size of Input ('Classic Buffer Overflow').

[Schneider Electric PrismaSeT Active - Wireless Panel Server | CISA](#)

ICSA-25-140-07: **Schneider Electric Galaxy VS, Galaxy VL, Galaxy VXL**

**Critical** level vulnerability: Missing Authentication for Critical Function.

[Schneider Electric Galaxy VS, Galaxy VL, Galaxy VXL | CISA](#)

ICSA-25-140-08: **Schneider Electric Modicon Controllers**

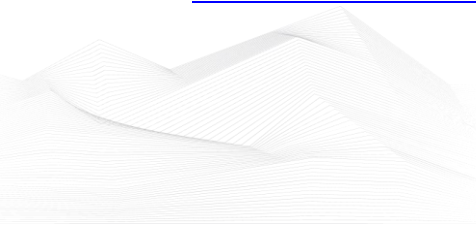
**High** level vulnerability: Externally Controlled Reference to a Resource in Another Sphere.

[Schneider Electric Modicon Controllers | CISA](#)

ICSA-25-140-09: **AutomationDirect MB-Gateway**

**Critical** level vulnerability: Missing Authentication For Critical Function.

[AutomationDirect MB-Gateway | CISA](#)





#### ICSA-25-140-10: **Vertiv Liebert RDU101 and UNITY**

**Critical** level vulnerabilities: Authentication Bypass Using an Alternate Path or Channel, Stack-based Buffer Overflow.

[Vertiv Liebert RDU101 and UNITY | CISA](#)

#### ICSA-25-140-11: **Assured Telematics Inc (ATI) Fleet Management System with Geotab Integration**

**High** level vulnerability: Exposure of Sensitive System Information to an Unauthorized Control Sphere.

[Assured Telematics Inc \(ATI\) Fleet Management System with Geotab Integration | CISA](#)

#### ICSA-25-037-01: **Schneider Electric EcoStruxure Power Monitoring Expert (PME) (Update B)**

**High** level vulnerability: Deserialization of Untrusted Data.

[Schneider Electric EcoStruxure Power Monitoring Expert \(PME\) \(Update B\) | CISA](#)

#### ICSA-25-023-05: **Schneider Electric EcoStruxure Power Build Rapsody (Update A)**

**Low** level vulnerability: Improper Restriction of Operations within the Bounds of a Memory Buffer.

[Schneider Electric EcoStruxure Power Build Rapsody \(Update A\) | CISA](#)

#### SSA-556937: **VersiCharge AC Series EV Chargers (Update: 1.1.)**

**High** level vulnerabilities: Missing Immutable Root of Trust in Hardware, Initialization of a Resource with an Insecure Default.

<https://cert-portal.siemens.com/productcert/html/ssa-556937.html>

#### SSA-935500: **FTP Server of Nucleus RTOS based APOGEE, TALON and Desigo PXC/PXM Products (Update: 1.3.)**

**High** level vulnerability: Uncontrolled Resource Consumption.

<https://cert-portal.siemens.com/productcert/html/ssa-935500.html>

#### SSA-928984: **Siemens User Management Component (UMC) (Update: 1.2.)**

**Critical** level vulnerability: Heap-based Buffer Overflow.

<https://cert-portal.siemens.com/productcert/html/ssa-928984.html>

#### SSA-876787: **Siemens SIMATIC S7-1500 and S7-1200 CPUs (Update: 1.6.)**

**Medium** level vulnerability: URL Redirection to Untrusted Site ('Open Redirect').





<https://cert-portal.siemens.com/productcert/html/ssa-876787.html>

SSA-832273: **Siemens RUGGEDCOM APE1808 Devices (Update: 1.9.)**

**High** level vulnerabilities: Multiple.

<https://cert-portal.siemens.com/productcert/html/ssa-832273.html>

SSA-819629: **Siemens Industrial Edge Device Kit (Update: 1.2.)**

**Critical** level vulnerability: Weak Authentication.

<https://cert-portal.siemens.com/productcert/html/ssa-819629.html>

SSA-770770: **Siemens RUGGEDCOM APE1808 Devices (Update: 1.3.)**

**Critical** level vulnerabilities: Multiple.

<https://cert-portal.siemens.com/productcert/html/ssa-770770.html>

SSA-767615: **Siemens SIPROTEC 5 Devices (Update: 1.3.)**

**High** level vulnerability: Use of Default Credentials.

<https://cert-portal.siemens.com/productcert/html/ssa-767615.html>

SSA-673996: **Siemens SICAM and SITIFE Products (Update: 1.2.)**

**High** level vulnerability: Buffer Copy without Checking Size of Input ('Classic Buffer Overflow').

<https://cert-portal.siemens.com/productcert/html/ssa-673996.html>

SSA-455250: **Siemens RUGGEDCOM APE1808 Devices Before V11.1.2-h3 (Update: 1.6.)** **High** level vulnerabilities: Multiple.

<https://cert-portal.siemens.com/productcert/html/ssa-455250.html>

SSA-373591: **Siemens RUGGEDCOM ROS Devices (Update: 1.1.)**

**High** level vulnerability: Buffer Copy without Checking Size of Input ('Classic Buffer Overflow').

<https://cert-portal.siemens.com/productcert/html/ssa-373591.html>

SSA-366067: **Siemens RUGGEDCOM APE1808 Devices (Update: 1.3.)**

**Critical** level vulnerabilities: Multiple.

<https://cert-portal.siemens.com/productcert/html/ssa-366067.html>

SSA-354569: **Siemens RUGGEDCOM APE1808 Devices (Update: 1.4.)**

**Critical** level vulnerabilities: Multiple.





<https://cert-portal.siemens.com/productcert/html/ssa-354569.html>

SSA-103653: **Siemens Automation License Manager (Update: 1.1.)**

**Critical** level vulnerability: Integer Overflow or Wraparound.

<https://cert-portal.siemens.com/productcert/html/ssa-103653.html>

SSA-054046: **Siemens SIMATIC S7-1500 CPUs (Update: 1.5.)**

**Medium** level vulnerability: Authentication Bypass Using an Alternate Path or Channel.

<https://cert-portal.siemens.com/productcert/html/ssa-054046.html>

SSA-039007: **Siemens User Management Component (UMC) (Update: 1.5.)**

**Critical** level vulnerability: Heap-based Buffer Overflow.

<https://cert-portal.siemens.com/productcert/html/ssa-039007.html>

ICSA-25-135-01: **Siemens RUGGEDCOM APE1808 Devices**

**Medium** level vulnerability: Insufficiently Protected Credentials, Out-of-bounds Write.

[Siemens RUGGEDCOM APE1808 Devices | CISA](#)

ICSA-25-135-02: **Siemens INTRALOG WMS**

**High** level vulnerabilities: Cleartext Transmission of Sensitive Information, Uncontrolled Resource Consumption, Use After Free, Improper Link Resolution Before File Access ('Link Following'), Improper Input Validation, Inefficient Algorithmic Complexity.

[Siemens INTRALOG WMS | CISA](#)

ICSA-25-135-03: **Siemens BACnet ATEC Devices**

**High** level vulnerability: Improper Input Validation.

[Siemens BACnet ATEC Devices | CISA](#)

ICSA-25-135-04: **Siemens Desigo**

**High** level vulnerability: Missing Authentication for Critical Function.

[Siemens Desigo | CISA](#)

ICSA-25-135-05: **Siemens SIPROTEC and SICAM**

**Critical** level vulnerability: Improper Enforcement of Message Integrity During Transmission in a Communication Channel.



[Siemens SIPROTEC and SICAM | CISA](#)

ICSA-25-135-06: **Siemens Teamcenter Visualization**

**High** level vulnerability: Out-of-bounds Read.

[Siemens Teamcenter Visualization | CISA](#)

ICSA-25-135-07: **Siemens IPC RS-828A**

**Critical** level vulnerability: Authentication Bypass by Spoofing.

[Siemens IPC RS-828A | CISA](#)

ICSA-25-135-08: **Siemens VersiCharge AC Series EV Chargers**

**High** level vulnerabilities: Missing Immutable Root of Trust in Hardware, Initialization of a Resource with an Insecure Default.

[Siemens VersiCharge AC Series EV Chargers | CISA](#)

ICSA-25-135-09: **Siemens User Management Component (UMC)**

**High** level vulnerabilities: Out-of-bounds Read, Out-of-bounds Write.

[Siemens User Management Component \(UMC\) | CISA](#)

ICSA-25-135-10: **Siemens OZW Web Servers**

**Critical** level vulnerabilities: Improper Neutralization of Special Elements used in an OS Command ('OS Command Injection'), Improper Neutralization of Special Elements used in an SQL Command ('SQL Injection').

[Siemens OZW Web Servers | CISA](#)

ICSA-25-135-11: **Siemens Polarion**

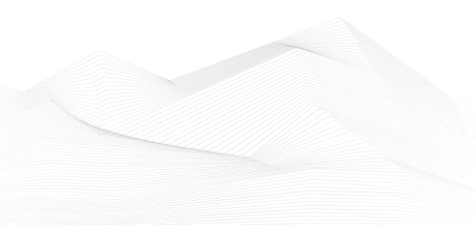
**High** level vulnerabilities: Improper Neutralization of Special Elements used in an SQL Command ('SQL Injection'), Improper Restriction of XML External Entity Reference, Improper Neutralization of Input During Web Page Generation ('Cross-site Scripting'), Observable Response Discrepancy.

[Siemens Polarion | CISA](#)

ICSA-25-135-12: **Siemens SIMATIC PCS neo**

**High** level vulnerability: Insufficient Session Expiration.

[Siemens SIMATIC PCS neo | CISA](#)





### ICSA-25-135-13: **Siemens SIRIUS 3SK2 Safety Relays and 3RK3 Modular Safety Systems**

**High** level vulnerabilities: Use of a Broken or Risky Cryptographic Algorithm, Missing Encryption of Sensitive Data, Incorrect Permission Assignment for Critical Resource.

[Siemens SIRIUS 3SK2 Safety Relays and 3RK3 Modular Safety Systems | CISA](#)

### ICSA-25-135-14: **Siemens APOGEE PXC and TALON TC Series**

**Medium** level vulnerability: Expected Behavior Violation.

[Siemens APOGEE PXC and TALON TC Series | CISA](#)

### ICSA-25-135-15: **Siemens Mendix OIDC SSO**

**Low** level vulnerability: Incorrect Privilege Assignment.

[Siemens Mendix OIDC SSO | CISA](#)

### ICSA-25-135-16: **Siemens MS/TP Point Pickup Module**

**High** level vulnerability: Improper Input Validation.

[Siemens MS/TP Point Pickup Module | CISA](#)

### ICSA-25-135-17: **Siemens RUGGEDCOM ROX II**

**Critical** level vulnerability: Client-Side Enforcement of Server-Side Security.

[Siemens RUGGEDCOM ROX II | CISA](#)

### ICSA-25-135-18: **Siemens SCALANCE LPE9403**

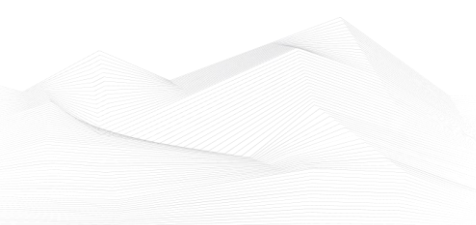
**High** level vulnerabilities: Incorrect Permission Assignment for Critical Resource, Path Traversal: '.../...//', Use of Uninitialized Variable, NULL Pointer Dereference, Out-of-bounds Read, Stack-based Buffer Overflow, Authentication Bypass Using an Alternate Path or Channel, Improper Neutralization of Special Elements used in an OS Command ('OS Command Injection'), Cleartext Transmission of Sensitive Information.

[Siemens SCALANCE LPE9403 | CISA](#)

### ICSA-25-135-19: **ECOVACS DEEBOT Vacuum and Base Station**

**High** level vulnerabilities: Use of Hard-coded Cryptographic Key, Download of Code Without Integrity Check.

[ECOVACS DEEBOT Vacuum and Base Station | CISA](#)





### ICSA-25-135-20: **Schneider Electric EcoStruxure Power Build Rapsody**

**Low** level vulnerability: Stack-based Buffer Overflow.

[Schneider Electric EcoStruxure Power Build Rapsody | CISA](#)

### ICSA-24-135-04: **Mitsubishi Electric Multiple FA Engineering Software Products (Update C)**

**Low** level vulnerabilities: Improper Privilege Management, Uncontrolled Resource Consumption, Out-of-bounds Write.

[Mitsubishi Electric Multiple FA Engineering Software Products \(Update C\) | CISA](#)

### ICSA-24-200-01: **Mitsubishi Electric MELSOFT MaiLab and MELSOFT VIXIO (Update A)**

**High** level vulnerability: Improper Verification of Cryptographic Signature.

[Mitsubishi Electric MELSOFT MaiLab and MELSOFT VIXIO \(Update A\) | CISA](#)

### ICSA-25-133-04: **ABB Automation Builder**

**High** level vulnerability: Incorrect Permission Assignment for Critical Resource.

[ABB Automation Builder | CISA](#)

### ICSA-25-133-03: **Hitachi Energy MACH GWS Products**

**Critical** level vulnerabilities: Improper Neutralization of Special Elements in Data Query Logic, Improper Limitation of a Pathname to a Restricted Directory, Authentication Bypass by Capture-replay, Missing Authentication for Critical Function.

[Hitachi Energy MACH GWS Products | CISA](#)

### ICSA-25-133-02: **Hitachi Energy Relion 670/650/SAM600-IO Series**

**High** level vulnerability: Buffer Copy without Checking Size of Input ('Classic Buffer Overflow').

[Hitachi Energy Relion 670/650/SAM600-IO Series | CISA](#)

### ICSA-25-133-01: **Hitachi Energy Service Suite**

**Critical** level vulnerabilities: Use of Less Trusted Source, Inconsistent Interpretation of HTTP Requests ('HTTP Request/Response Smuggling'), Integer Overflow or Wraparound, Out-of-bounds Write, Allocation of Resources Without Limits or Throttling, Exposure of Sensitive Information to an Unauthorized Actor, Memory Allocation with Excessive Size Value, Out-of-bounds Read, Uncontrolled Resource Consumption, Improper Resource Shutdown or Release, Improper



Neutralization of CRLF Sequences in HTTP Headers ('HTTP Request/Response Splitting').

[Hitachi Energy Service Suite | CISA](#)

ICSA-25-128-01: **Horner Automation Cscape**

**High** level vulnerability: Out-of-bounds Read.

[Horner Automation Cscape | CISA](#)

ICSA-25-128-02: **Hitachi Energy RTU500 series**

**High** level vulnerabilities: Improper Neutralization of Input During Web Page Generation ('Cross-site Scripting'), Improper Validation of Specified Index, Position, or Offset in Input.

[Hitachi Energy RTU500 Series | CISA](#)

ICSA-25-128-03: **Mitsubishi Electric CC-Link IE TSN**

**High** level vulnerability: Improper Validation of Specified Quantity in Input.

[Mitsubishi Electric CC-Link IE TSN | CISA](#)

ICSA-25-093-01: **Hitachi Energy RTU500 Series (Update A)**

**High** level vulnerabilities: Null Pointer Dereference, Insufficient Resource Pool, Missing Synchronization.

[Hitachi Energy RTU500 Series \(Update A\) | CISA](#)

ICSMA-25-128-01: **Pixmeo OsiriX MD**

**Critical** level vulnerabilities: Use After Free, Cleartext Transmission of Sensitive Information.

[Pixmeo OsiriX MD | CISA](#)

ICSA-25-126-01: **Optigo Networks ONS NC600**

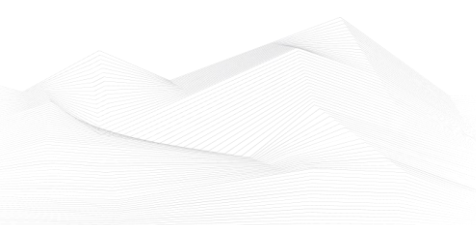
**Critical** level vulnerability: Use of Hard-coded Credentials.

[Optigo Networks ONS NC600 | CISA](#)

ICSA-25-126-02: **Milesight UG65-868M-EA**

**Medium** level vulnerability: Improper Access Control for Volatile Memory Containing Boot Code.

[Milesight UG65-868M-EA | CISA](#)





### ICSA-25-126-03: **BrightSign Players**

**High** level vulnerability: Execution with Unnecessary Privileges.

[BrightSign Players | CISA](#)

### ICSA-25-121-01: **KUNBUS GmbH Revolution Pi**

**Critical** level vulnerabilities: Missing Authentication for Critical Function, Authentication Bypass by Primary Weakness, Improper Neutralization of Server-Side Includes (SSI) Within a Web Page.

[KUNBUS GmbH Revolution Pi | CISA](#)

### ICSMA-25-121-01: **MicroDicom DICOM Viewer**

**High** level vulnerabilities: Out-of-Bounds Write, Out-of-Bounds Read.

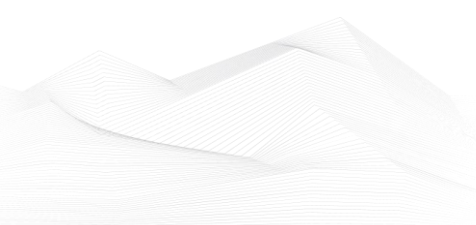
[MicroDicom DICOM Viewer | CISA](#)

The vulnerability reports contain more detailed information, which can be found on the following websites:

[Cybersecurity Alerts & Advisories | CISA](#)

[CERT Services | Services | Siemens Siemens global website](#)

Continuous monitoring of vulnerabilities is recommended, because relevant information on how to address vulnerabilities, patch vulnerabilities and mitigate risks are also included in the detailed descriptions.





## ICS alerts

CISA has published alerts in 2025 May:

### **CISA Adds Known Exploited Vulnerabilities to Catalog**

*CVE-2024-38475 Apache HTTP Server Improper Escaping of Output Vulnerability;*  
*CVE-2023-44221 SonicWall SMA100 Appliances OS Command Injection Vulnerability;*  
*CVE-2025-34028 Commvault Command Center Path Traversal Vulnerability;*  
*CVE-2024-58136 Yiiframework Yii Improper Protection of Alternate Path Vulnerability;*  
*CVE-2025-3248 Langflow Missing Authentication Vulnerability;*  
*CVE-2025-27363 FreeType Out-of-Bounds Write Vulnerability;*  
*CVE-2024-6047 GeoVision Devices OS Command Injection Vulnerability;*  
*CVE-2024-11120 GeoVision Devices OS Command Injection Vulnerability;*  
*CVE-2025-30400 Microsoft Windows DWM Core Library Use-After-Free Vulnerability;*  
*CVE-2025-32701 Microsoft Windows Common Log File System (CLFS) Driver Use-After-Free Vulnerability;*  
*CVE-2025-32706 Microsoft Windows Common Log File System (CLFS) Driver Heap-Based Buffer Overflow Vulnerability;*  
*CVE-2025-30397 Microsoft Windows Scripting Engine Type Confusion Vulnerability;*  
*CVE-2025-32709 Microsoft Windows Ancillary Function Driver for WinSock Use-After-Free Vulnerability;*  
*CVE-2025-32756 Fortinet Multiple Products Stack-Based Buffer Overflow Vulnerability;*  
*CVE-2024-12987 DrayTek Vigor Routers OS Command Injection Vulnerability;*  
*CVE-2025-4664 Google Chromium Loader Insufficient Policy Enforcement Vulnerability;*  
*CVE-2025-42999 SAP NetWeaver Deserialization Vulnerability;*  
*CVE-2025-4427 Ivanti Endpoint Manager Mobile (EPMM) Authentication Bypass Vulnerability;*  
*CVE-2025-4428 Ivanti Endpoint Manager Mobile (EPMM) Code Injection Vulnerability;*  
*CVE-2024-11182 MDaemon Email Server Cross-Site Scripting (XSS) Vulnerability;*  
*CVE-2025-27920 Srimax Output Messenger Directory Traversal Vulnerability;*  
*CVE-2024-27443 Synacor Zimbra Collaboration Suite (ZCS) Cross-Site Scripting (XSS) Vulnerability;*  
*CVE-2023-38950 ZKTeco BioTime Path Traversal Vulnerability;*

Links and more information:

[CISA Adds Two Known Exploited Vulnerabilities to Catalog | CISA](#)  
[CISA Adds Two Known Exploited Vulnerabilities to Catalog | CISA](#)  
[CISA Adds One Known Exploited Vulnerability to Catalog | CISA](#)  
[CISA Adds One Known Exploited Vulnerability to Catalog | CISA](#)  
[CISA Adds Two Known Exploited Vulnerabilities to Catalog | CISA](#)  
[CISA Adds Five Known Exploited Vulnerabilities to Catalog | CISA](#)  
[CISA Adds One Known Exploited Vulnerability to Catalog | CISA](#)  
[CISA Adds Three Known Exploited Vulnerabilities to Catalog | CISA](#)  
[CISA Adds Six Known Exploited Vulnerabilities to Catalog | CISA](#)



### **Unsophisticated Cyber Actor(s) Targeting Operational Technology**

*CISA is increasingly aware of unsophisticated cyber actor(s) targeting ICS/SCADA systems within U.S. critical Infrastructure sectors (Oil and Natural Gas), specifically in Energy and Transportation Systems. Although these activities often include basic and elementary intrusion techniques, the presence of poor cyber hygiene and exposed assets can escalate these threats, leading to significant consequences such as defacement, configuration changes, operational disruptions and, in severe cases, physical damage.*

Links and more information:

[Unsophisticated Cyber Actor\(s\) Targeting Operational Technology | CISA](#)

### **Threat Actors Deploy LummaC2 Malware to Exfiltrate Sensitive Data from Organizations**

*The Federal Bureau of Investigation (FBI) and the Cybersecurity and Infrastructure Security Agency (CISA) are releasing this joint advisory to disseminate known tactics, techniques, and procedures (TTPs) and indicators of compromise (IOCs) associated with threat actors deploying the LummaC2 information stealer (infostealer) malware. LummaC2 malware is able to infiltrate victim computer networks and exfiltrate sensitive information, threatening vulnerable individuals' and organizations' computer networks across multiple U.S. critical infrastructure sectors. According to FBI information and trusted third-party reporting, this activity has been observed as recently as May 2025. The IOCs included in this advisory were associated with LummaC2 malware infections from November 2023 through May 2025.*

Links and more information:

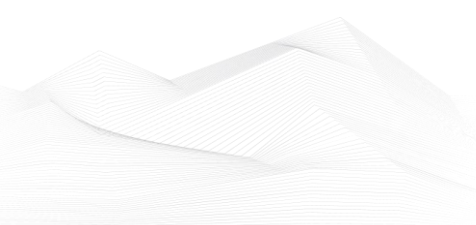
[Threat Actors Deploy LummaC2 Malware to Exfiltrate Sensitive Data from Organizations | CISA](#)

### **Guidance for SIEM and SOAR Implementation**

*CISA, in collaboration with the Australian Signals Directorate's Australian Cyber Security Centre (ASD's ACSC) and other international and U.S. partners, released guidance for organizations seeking to procure Security Information and Event Management (SIEM) and Security Orchestration, Automation, and Response (SOAR) platforms.*

Links and more information:

[Guidance for SIEM and SOAR Implementation | CISA](#)





## ICS trainings, education

Without aiming to provide an exhaustive list, the following trainings are available in June 2025:

- Developing Industrial Internet of Things Specialization
- Development of Secure Embedded Systems Specialization
- Industrial IoT Markets and Security

<https://www.coursera.org/search?query=-%09Developing%20Industrial%20Internet%20of%20Things%20Specialization&>

- Industrial Control Systems Cybersecurity (Virtual)(ICS300)
- Industrial Control Systems Evaluation (Virtual)(401V)
- ICS Cybersecurity & RED-BLUE Exercise (In-Person)(ICS301)
- Industrial Control Systems Evaluation (In-Person)(401L)
- Introduction to Control Systems Cybersecurity (In-Person)(101)
- Intermediate Cybersecurity for Industrial Control Systems (201), (202)

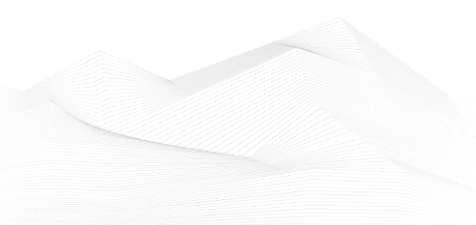
<https://www.us-cert.gov/ics/Training-Available-Through-ICS-CERT>

- Operational Security (OPSEC) for Control Systems (100W)
- Differences in Deployments of ICS (210W-1)
- Influence of Common IT Components on ICS (210W-2)
- Common ICS Components (210W-3)
- Cybersecurity within IT & ICS Domains (210W-4)
- Cybersecurity Risk (210W-5)
- Current Trends (Threat) (210W-6)
- Current Trends (Vulnerabilities) (210W-7)
- Determining the Impacts of a Cybersecurity Incident (210W-8)
- Attack Methodologies in IT & ICS (210W-9)
- Mapping IT Defense-in-Depth Security Solutions to ICS - Part 1 (210W-10)
- Mapping IT Defense-in-Depth Security Solutions to ICS - Part 2 (210W-11)
- Industrial Control Systems Cybersecurity Landscape for Managers (FRE2115)
- ICS410: ICS/SCADA Security Essentials
- ICS515: ICS Active Defense and Incident Response

<https://www.sans.org/cyber-security-courses/ics-scada-cyber-security-essentials/#training-and-pricing>

- ICS/SCADA Cyber Security
- Fundamentals of OT Cybersecurity (ICS/SCADA)
- An Introduction to the DNP3 SCADA Communications Protocol
- Learn SCADA from Scratch - Design, Program and Interface

<https://www.udemy.com/ics-scada-cyber-security/>





- SCADA security training

<https://www.tonex.com/training-courses/scada-security-training/>

- Fundamentals of Industrial Control System Cyber Security
- Ethical Hacking for Industrial Control Systems

<https://scadahacker.com/training.html>

- INFOSEC-Flex SCADA/ICS Security Training Boot Camp

<https://www.infosecinstitute.com/courses/scada-security-boot-camp/>

- Industrial Control System (ICS) & SCADA Cyber Security Training

<https://www.tonex.com/training-courses/industrial-control-system-scada-cybersecurity-training/>

- Bsigroup: Certified Lead SCADA Security Professional training course

<https://www.bsigroup.com/en-GB/our-services/digital-trust/cybersecurity-information-resilience/Training/certified-lead-scada-security-professional/>

- The Industrial Cyber Security Certification Course

<https://prettygoodcourses.com/courses/industrial-cybersecurity-professional/>

- Secure IACS by ISA-IEC 62443 Standard

<https://www.udemy.com/course/isa-iec-62443-standard-for-secure-iacs/>

- Dragos Academy ICS/OT Cybersecurity Training

<https://www.dragos.com/dragos-academy/#on-demand-courses>

- ISA/IEC 62443 Training for Product and System Manufacturers

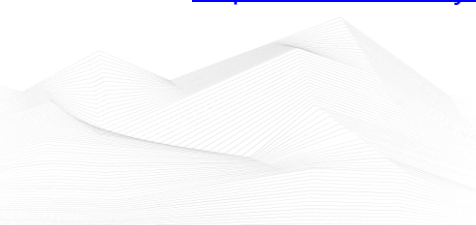
[https://www.ul.com/services/isaiec-62443-training-product-and-system-manufacturers?utm\\_mktocampaign=cybersecurity\\_industry40&utm\\_mktoadid=635856951086&campaignid=18879148221&adgroupid=143878946819&matchtype=b&device=c&creative=635856951086&keyword=industrial%20cyber%20security%20training&gclid=EAlaIQobChMI2sLO8fyv\\_AIVWvZ3Ch0b-QJvEAMYAAAEgJNkvD\\_BwE](https://www.ul.com/services/isaiec-62443-training-product-and-system-manufacturers?utm_mktocampaign=cybersecurity_industry40&utm_mktoadid=635856951086&campaignid=18879148221&adgroupid=143878946819&matchtype=b&device=c&creative=635856951086&keyword=industrial%20cyber%20security%20training&gclid=EAlaIQobChMI2sLO8fyv_AIVWvZ3Ch0b-QJvEAMYAAAEgJNkvD_BwE)

- ICS/SCADA/OT Protocol Traffic Analysis: IEC 60870-5-104

<https://www.udemy.com/course/ics-scada-ot-protocol-traffic-analysis-iec-60870-5-104/>

- ICS/OT Cyber ICS/OT Cybersecurity as per NIST 800-82 Updated - Part1

<https://www.udemy.com/course/ics-cybersecurity/>





- Lead SCADA Security Manager

<https://pecb.com/en/education-and-certification-for-individuals/scada/lead-scada-security-manager>

- OT/IT Security Training

<https://www.infosectrain.com/operational-technology-ot-training-courses/#courses>

- OT Railway Cybersecurity (OTCS)

<https://informaconnect.com/ot-railway-cybersecurity-otcs/>

- OT Security Expert (*Master OT/ICS security essentials for protecting critical infrastructure in the digital era*)

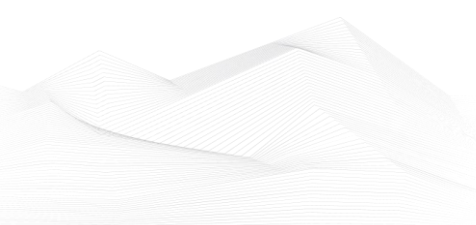
<https://opswatacademy.com/courses/ot-security-expert>

- CTR-008 - OT-Security Awareness E-Learning Course

<https://www.yokogawa.com/eu/solutions/products-and-services/trainings-and-workshops/kompetenztrainings/ctr-008-ot-security-awareness-e-learning-course/>

- Comprehensive Guide to Industrial Cybersecurity with IEC 62443-3 Standards

[Comprehensive Guide to Industrial Cybersecurity with IEC 62443-3 Standards | EC-Council Learning](#)





## ICS podcasts

People listen more and more podcasts nowadays. Whether it's for our personal interests or for our professional development, the world of podcasts is a great possibility to be well informed. In this section, we bring together the ICS security podcasts from the previous month.

### **Dale Peterson**

This podcast is named after and made by one of the most famous ICS security expert, Dale Peterson. It's made on Wednesdays on every week and the usual structure contains an opening monologue, interviews with guests and listener questions on topics that are on the leading, or even bleeding edge of OT and ICS security. The podcast is also interactive, so the listeners could ask question from Dale and the guests.

You can find all of Peterson's podcasts on the below URL.

Link: <https://dale-peterson.com/podcast-2/>

### **Industrial Cybersecurity Pulse**

This podcast is discussing major industrial cybersecurity topics and features industry experts covering everything from ransomware through critical infrastructure to supply chain attacks. Tune in to stay on top of the latest cybersecurity trends, threats and tactics. Hosted by Gary Cohen and Tyler Wall.

Link: <https://www.industrialcybersecuritypulse.com/ics-podcast/>

### **BEERISAC: OT/ICS Security Podcast Playlist**

A curated playlist of Operational Technology and ICS Cyber Security related podcast episodes by ICS Security enthusiasts.

At this link, you can find numerous podcasts on the topic of ICS (Industrial Control Systems) created by various content producers. It's worth browsing through and listening to podcasts that are of interest to the organization or the readers of this newsletter themselves.

Link: <https://www.iheart.com/podcast/256-beerisac-ot-ics-security-p-43087446/>

