



# Industrial Cybersecurity Services

Portfolio overview

# Digitalization changes everything

# Cybersecurity is essential for OT environments – but the lack of expertise has far-reaching consequences

## Operative challenges

- Digitalization and the growing networking of machines and industrial systems also mean an increase in the risk of cyber attacks. New cybercrime incidents are reported every day. Thus, cybersecurity is essential in today's automation environments.
- There are a lot of cybersecurity standards as well as country-specific laws and regulations, especially for critical infrastructures, e.g. IEC 62443 or the NIS 2 Directive in the European Union.
- Despite the importance of the topic, there is a lack of expertise in the field of IT and cybersecurity for OT environments. This leads to a lack of transparency about potential risks and insufficient protection of the plant.

**The advancing digitalization of industry increases the risk of cyber attacks, but there is a lack of experts and protection.**

## Possible consequences



Increased risk of cyber attacks



Disruption, unplanned downtimes, data theft and extortion or even sabotage and product harm



Significant financial loss and reputational damage

# Challenges regarding security Productivity, cost pressure and regulations

## Protect productivity



Protect  
against

- Externally caused incidents through increasing connectivity
- Internal misbehavior
- The evolving threat landscape

## Reduce cost



Costs

- For qualified personnel
- For essential security technologies

## Comply to regulations



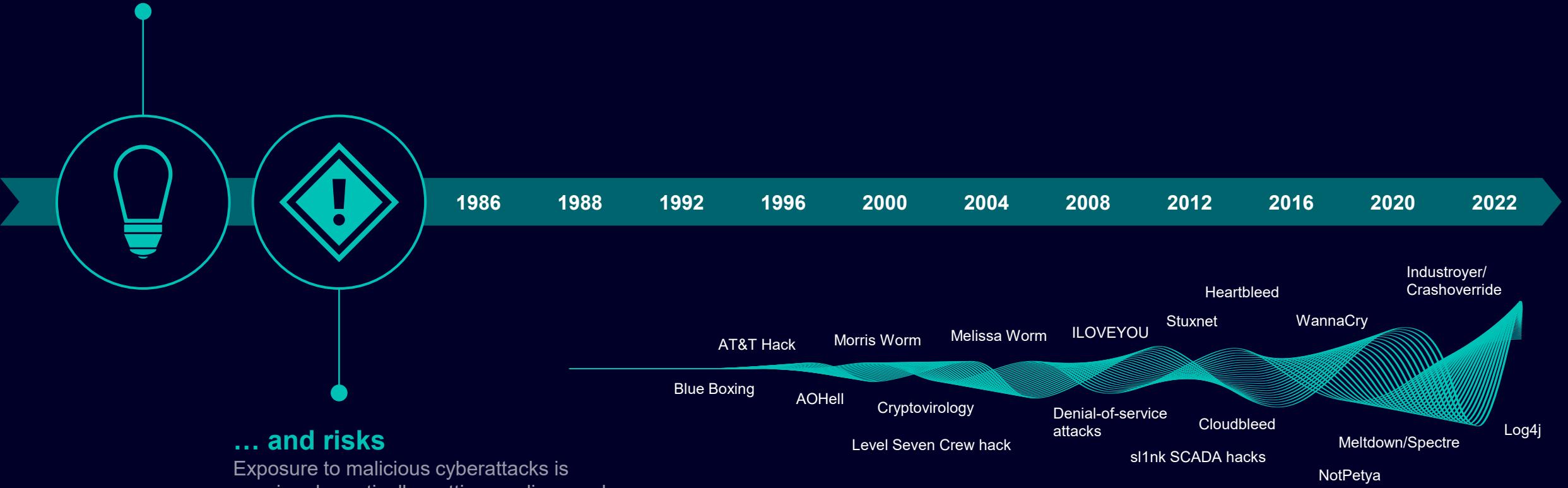
Comply  
to

- Reporting requirements
- Minimum standards
- Security know-how

# Evolution of the cyber threat landscape

## Opportunities

Billions of devices are being connected by the Internet of Things and are the backbone of our infrastructure and economy.



## ... and risks

Exposure to malicious cyberattacks is growing dramatically, putting our lives and the stability of our society at risk.

The security needs of industrial control systems differ greatly from those of office IT

## IT Security

Confidentiality

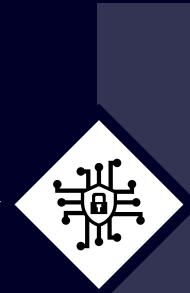
3-5 years

Forced migration (e.g. PCs, smart phone)

High (> 10 “agents” on office PCs)

Low (mainly Windows 10)

Standards based (agents & forced patching)



## Industrial Security

Availability and Safety

Asset lifecycle

20-40 years

Software lifecycle

Usage as long as spare parts available

Options to add security SW

Low (old systems w/o “free” performance)

Heterogeneity

High (from Windows 95 up to 10)

Main protection concept

Case and risk based

# Siemens is your reliable partner to drive secure digitalization

We are the automation experts with specific industry know-how



We drive digitalization



We understand industrial security



We offer state-of-the-art technology and end-to-end services from a single source



Our processes and products are proven and certified



***“We make sure that you can focus on your core business.”***

# Siemens relies on holistic cybersecurity concept: Defense in Depth

Security threats  
demand action



**Defense in Depth**  
based on IEC 62443

Plant Security  
Network Security  
System Integrity

Industrial Cybersecurity Services

# Cybersecurity for Industry: Offering from Siemens

## Defense in Depth

based on IEC 62443

Plant Security  
Network Security  
System Integrity



Industrial Cybersecurity Services

Siemens products and systems offer integrated security



Know-how and  
copy protection



Authentication  
and user  
management



Firewall and VPN



System hardening,  
continuous  
monitoring and  
anomaly detection

## Siemens Industrial Cybersecurity Services



Transparency about the  
current security status



Increased security level  
by closing security gaps



Long-term protection through  
continuous security management



# Industrial Cybersecurity Services: End-to-end approach



## Plant Security Services

- Security Assessments
- Scanning Services
- Industrial Security Consulting
- Cybersecurity Trainings
- Remote Industrial Operations Services

## Network Security Services

- Industrial Next Generation Firewall
- Industrial DMZ Infrastructure
- Remote Platform Software as a Service

## System Integrity Services

- Endpoint Protection
- Vulnerability Services
- Patch Management
- Backup and Restore

# Plant-specific security roadmap with Security Assessments



Operators of production facilities these days cannot afford to do without effective security measures. Industrial cybersecurity capacities are rarely available and there is time pressure due to new compliance requirements and laws such as the NIS 2 Directive.

Security Assessments provide a complete overview of the actual state of security of your automation systems.

## Solution and Service

Security Assessments cover a holistic analysis of threats and vulnerabilities, the identification of risks & recommendations to close the identified gaps.

Would you like to have a deep **assessment** based on IEC62443 standard **for Industrial Control Systems**?

IEC 62443/NIS 2 Assessment

Do you prefer a **compact one-day on-site assessment**?

Industrial Security Workshop

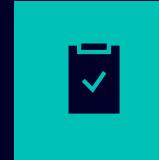
How are you preparing for your machine's market access in light of the CRA?

CRA Readiness Assessment

Do you need to get an comprehensive picture tailored to your key risks & operational threats?

Industrial Risk Assessment

## Your value



Evaluation of the current security status



Plant-specific and risk-based security roadmap



Basis for transparent cost estimates

# Quick transparency over assets and vulnerabilities with Scanning Services



The growing amount of assets and increasing complexity in automation environments lead to incomplete asset inventory, lack of patching, outdated hardware and software, resulting in increased risk of cyber incidents.

Scanning Services provide an efficient evaluation method in industrial automation environments based on a broad combination of scan tools and Siemens expertise in industrial security.

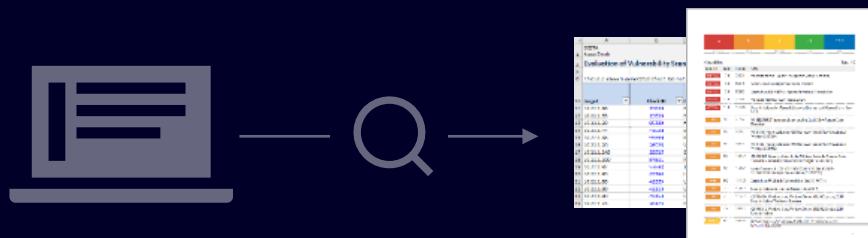
## Solution and Service

### Option 1

Active Asset Inventory Scan.

### Option 2

Vulnerability Detection Scan.



## Your value



Transparency over implemented assets



Detection of vulnerabilities



Clear guideline to increase security level

# Immediate access to industrial security expertise

## with Industrial Security Consulting



Operators of production facilities these days cannot afford to do without effective security measures. But industrial security capacities are rarely available.

Industrial Security Consulting provides on-site support through experienced consultants regarding security policies and the plant-specific network layout as well as tailor-made implementation support for the industrial security portfolio.

## Solution and Service

### Incident Analysis

Immediate support in case of incidents (root-cause analysis, remediation strategy).

### Policy Consulting

Review & establishing of policies, processes & procedures.

### Network Consulting

Support for cell segmentation, network design & firewall rules.

### Implementation Support

Smooth integration of security portfolio incl. training.

## Your value



Tailored security policies and concepts



Immediate access to expert know-how



No investment for developing own security capacities

# Fast reaction upon security incidents

## with Incident Analysis as part of Industrial Security Consulting



In case of cybersecurity incidents, fast reaction is required to close the gaps and keep damage low. But industrial security capacities are rarely available. Who can help?

With Incident Analysis, our Industrial Security experts provide immediate support to close security gaps, restore production, and prevent incidents in the future.

### Solution and Service

- Collection of forensic information
- Comprehensive analysis of root-cause and criticality
- Recommendation of a proper remediation strategy



### Your value



Supporting fast restoration of production



Immediate access to expert know-how



Reduced downtime cost

# 24/7 managed services for your IT/OT infrastructure

## with Remote Industrial Operations Services



Increasing IT/OT system complexity, lack of resources & cyber threats are major risks for productivity losses in operational technology.

With Remote Industrial Operations Services, you have a team of proven experts who remotely monitor and manage your IT/OT infrastructure 24/7, allowing you to focus on your core business.

### Solution and Service

**The modular contracting enables you to select only the services you need:**

- 24/7 monitoring of IT/OT Infrastructure to prevent downtime
- **Managed security services and SOC as a Service** for continuous protection against cyber threats
- Proactive identification of maintenance needs in your IT/OT infrastructure and spare parts provision to maximize uptime
- Expert IT and OT technical support from one source to rapidly resolve issues



### Your value



Proven IT/OT expertise by our experts



Operational continuity through 24/7 remotely managed IT/OT infrastructure



Compliance with cybersecurity regulations (e.g., NIS 2)

# Secure the “weakest link” with Security Awareness Training



As machines become increasingly digitalized and interconnected, the risk of cyberattacks grows – threatening production integrity and availability.

Siemens offers a wide range of security awareness trainings in various learning formats – designed to strengthen employee awareness, reduce incidents caused by human error, and support the implementation of effective defense strategies.

## Solution and Service

Industrial security trainings strengthen awareness to help prevent incidents caused by human error. Offered as in-person, virtual, or self-paced learning via the digital learning platform SITRAIN access, the courses cover real-world scenarios and relevant regulatory standards.

Participants learn to identify vulnerabilities, assess risks, and apply protective measures for both factory and process automation environments.

Available courses include:

- Basics of industrial security for factory and process automation
- Security in industrial networks (SCALANCE, RUGGEDCOM, SINEC Security Monitor)
- Holistic IT/OT security for industrial networks

## Your value



Fast and flexible  
upskilling of internal staff



Comprehensive  
cybersecurity expertise



Business continuity and  
compliance

# Continuous network protection with Industrial Next Generation Firewall



Shop floor landscape has changed from isolated islands to highly complex networks without any segmentation from untrusted cyber networks (e.g., office or internet).

Industrial Next Generation Firewall is a perimeter protection solution in line with security requirements for industrial automation, tested and approved for usage with Siemens process control system.

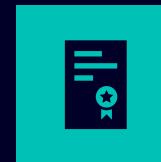
## Solution and Service

- State-of-the-art Next Generation **Firewall Appliances**.
- Additional **Security Subscriptions** for Threat Prevention, URL Filtering and WildFire.
- **Service Package** (3 or 5 years) with Premium Support.

## Your value



Continuous protection against known and unknown threats



Tested and approved for SIMATIC PCS 7 and SIVaaS



Very good price/ performance ratio

# Secure data exchange between IT and OT with Industrial DMZ Infrastructure



To protect against cyber-attacks, the international security standard IEC 62443 recommends a deeply tiered defense, including network segmentation.

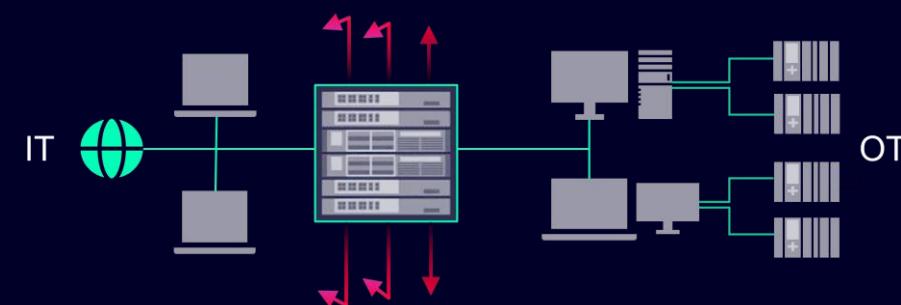
Industrial DMZ Infrastructure is a ready-to-run concept for the segmentation of IT and OT networks with integrated security features in several defense layers.

## Solution and Service

The concept is based on the principle of the demilitarized zone (DMZ) and the Zero Trust model. The applied Next Generation Firewalls protect the automation level from unauthorized access from outside.

### Additional highlights

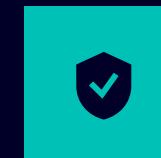
- Hardware, software and services for network security and system integrity already integrated
- Implementation on the hyper-convergent IT platform Industrial Automation DataCenter



## Your value



IT/OT network segmentation based on IEC 62443



Defense in-depth with security features out of the box



Hyper-convergent IT infrastructure for high performance computing

# Continuous protection against malware with Endpoint Protection



The threat of malware in form of viruses, rootkits and trojans is growing exponentially – also for endpoint devices in industrial environments (e.g., IPC).

Endpoint Protection provides different approaches – each has its advantages depending on the use case.

## Solution and Service

### Antivirus

The execution of known malicious applications is blocked based on continuously updated signature files.

### Application Control

Only trusted applications are allowed to run based on a positive list.

### Endpoint Detection and Response

Interoperability test for the specific configuration of PCS 7 version and 3<sup>rd</sup> party EDR software version.

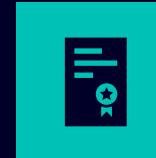
## Your value



Protection against known and unknown threats caused by malware



Easy, centralized operation via management server



Approved versions with tailor-made configurations for Siemens products

# Efficient handling of vulnerabilities with Vulnerability Services



Companies need to reduce their exposure to vulnerabilities in the face of a growing number of cyberthreats. Identifying new vulnerabilities as soon as possible is crucial.

Vulnerability Services empower you to secure your product development, infrastructure and product portfolio by providing relevant, actionable vulnerability intelligence.

## Solution and Service

Based on a unique monitoring approach you receive vulnerability alerts for your individual system. There are different options – tailored to your requirements:

### Management Portal

Tool incl. asset import, tracking and reporting.

### API

Seamless integration into existing tools and processes.

### Managed Service

Let us take care!

## Your value



Instant transparency  
on vulnerabilities  
and minimized  
patch-times



Proactive management  
of cyber risks –  
easily integrated  
into your workflow



Reduced risk  
of costly exploits

# Managing vulnerabilities and critical updates

## with Patch Management



The installation of patches is the appropriate reaction to close vulnerabilities in software. Thus, patches contribute to stable plant operation. But patching is manual work, and an incompatible patch can cause unplanned downtimes.

Siemens offers Patch Management of security patches and critical updates in Microsoft products for SIMATIC PCS 7 to simplify the patch process on the plant.

### Solution and Service

#### Step 1

The monthly released security patches for Microsoft products are tested and verified for compatibility with SIMATIC PCS 7.

#### Step 2

This information is published as metadata via a central update server (WSUS – Windows Software Update Services), which sends the information automatically to the local WSUS server in the plant.

#### Step 3

The customer receives a notification and can download the approved patches directly from Microsoft.

### Your value



Save time and cost due to reduction of manual work on-site



Minimize risk of human error



Enhanced plant availability

# Pre-configured IT infrastructure for disaster recovery

with Backup and Restore (SIMATIC DCS / SCADA Infrastructure)



The right disaster recovery strategy is an extremely important factor to restart production after a breakdown and to prevent data loss. Additionally, new security regulations (e.g. NIS 2 for EU) require operators to have a system for backup, disaster recovery and crisis management in place.

Backup and Restore (as part of SIMATIC DCS / SCADA Infrastructure) provides a powerful and preconfigured IT infrastructure for disaster recovery in industrial environments.

## Solution and Service

### Backup and Restore

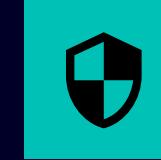
Best in class Disaster Recovery Backup solution, adapted to industrial environments

### Support Package

3- or 5-year service agreement



## Your value



Compliance with cybersecurity regulations and improved plant data security in case of ransomware incidents



Increased availability thanks to fast disaster recovery and prevented data loss



Ready-to-run infrastructure with system-tested, pre-configured components

# Industrial Cybersecurity Services @ Industrial Automation DataCenter



# Redefine operational excellence with Industrial Automation DataCenter



System complexity is rising and cybersecurity threats are increasing, whereas there is a lack of know-how and resources when it comes to IT/OT integration.

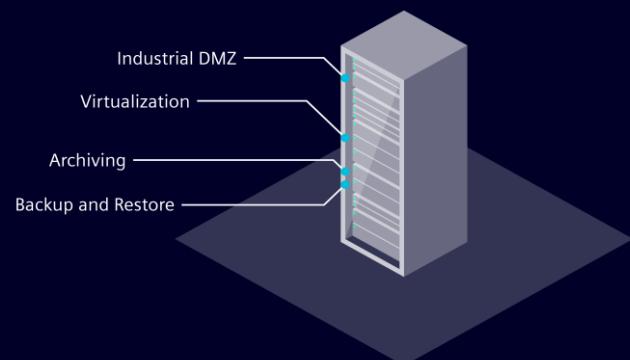
The Industrial Automation DataCenter is a ready-to-run tailor-made IT infrastructure for OT environments – developed by our experts who combine expertise in both fields.

## Solution and Service

All essential core elements of a data center are included:

- High performance computing
- IT/OT network
- Back-up & disaster recovery
- Process data archiving
- Uninterruptible power supply
- IEC 62443 compliant security architecture

The holistic approach covers consulting, configuration and managed services throughout the entire life cycle - from a single source.



## Your value



Pre-configured and ready-to-run high available IT/OT infrastructure



Increased operational efficiency and sustainability through optimized use of IT resources



Cybersecurity by design

Let us know if there is anything we can support you with!

You want to find  
out more?  
[siemens.com/icss](https://siemens.com/icss)



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## Security Information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept.

Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place.

For additional information on industrial security measures that may be implemented, please visit <https://www.siemens.com/industrialsecurity>

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats.

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