



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

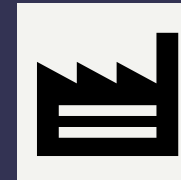
- Digitalization and the growing networking of machines and industrial systems also mean an increase in the risk of cyber attacks. New cybercrime incidents are reported every day. Thus, cybersecurity is essential in today's automation environments.
- There are a lot of cybersecurity standards as well 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



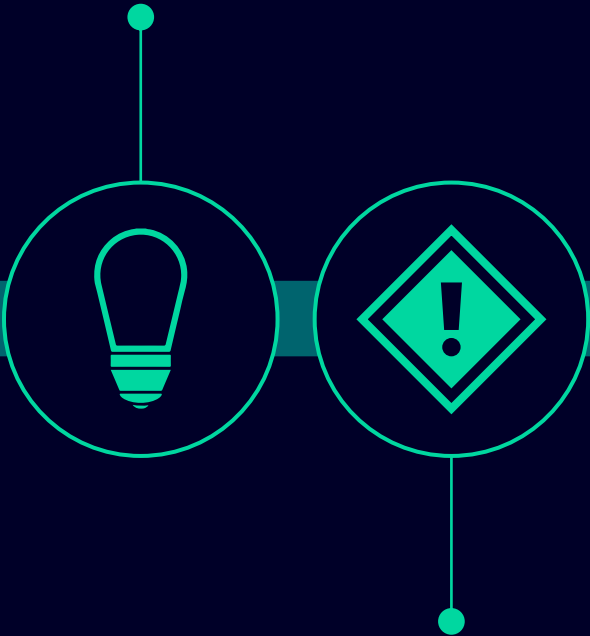
Comply
to

- Reporting requirements
- Minimum standards
- Security know-how

Evolution of the cyber threat landscape

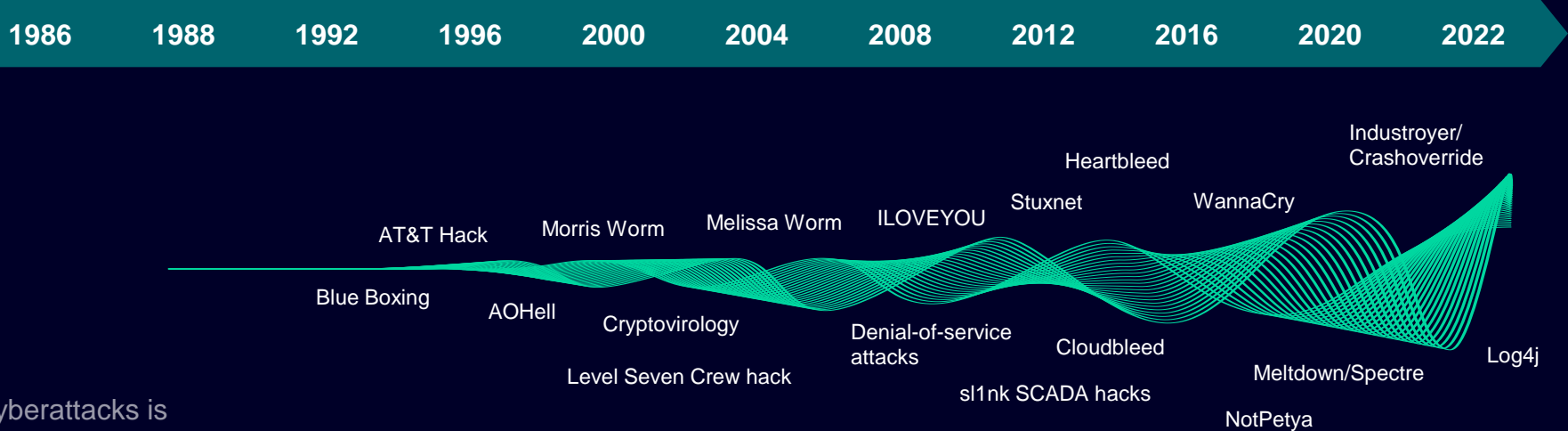
Opportunities

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.



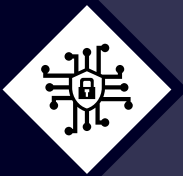
The security needs of industrial control systems differ greatly from those of office IT

IT Security

Confidentiality

Industrial Security

Availability and Safety



3-5 years	Asset lifecycle	20-40 years
Forced migration (e.g. PCs, smart phone)	Software lifecycle	Usage as long as spare parts available
High (> 10 “agents” on office PCs)	Options to add security SW	Low (old systems w/o “free” performance)
Low (mainly Windows 10)	Heterogeneity	High (from Windows 95 up to 10)
Standards based (agents & forced patching)	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



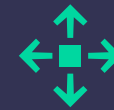
We drive digitalization



We understand industrial security



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

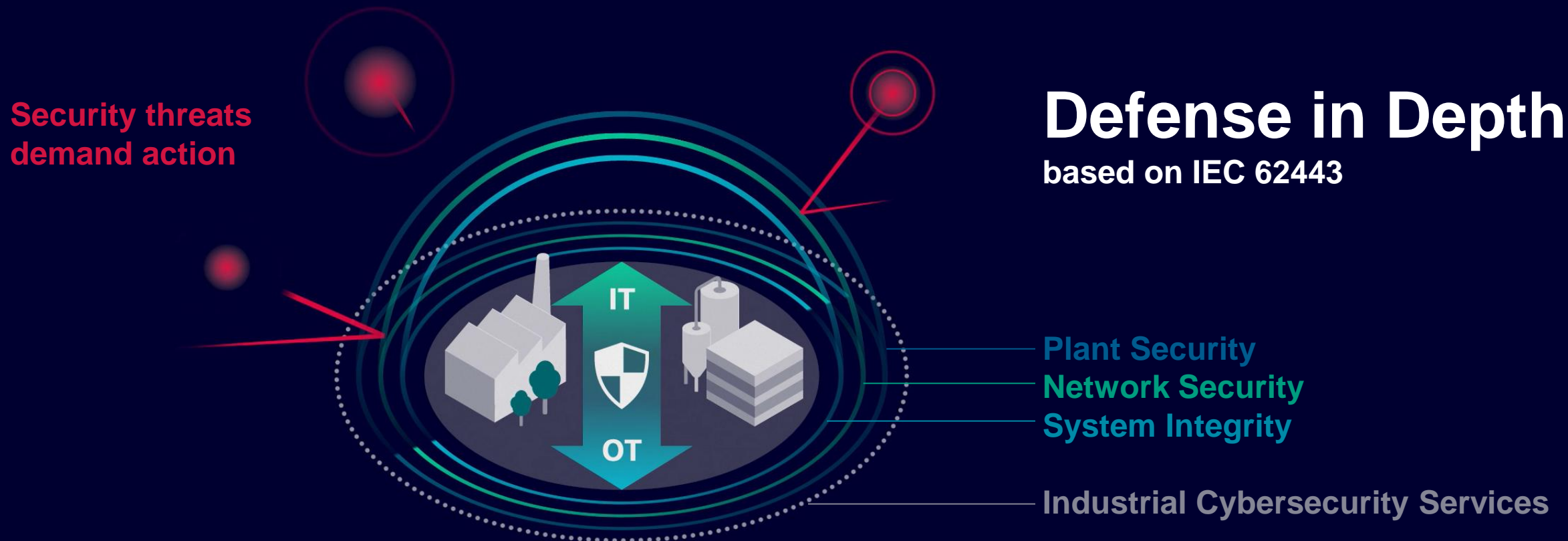


Our processes and products are proven and certified



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

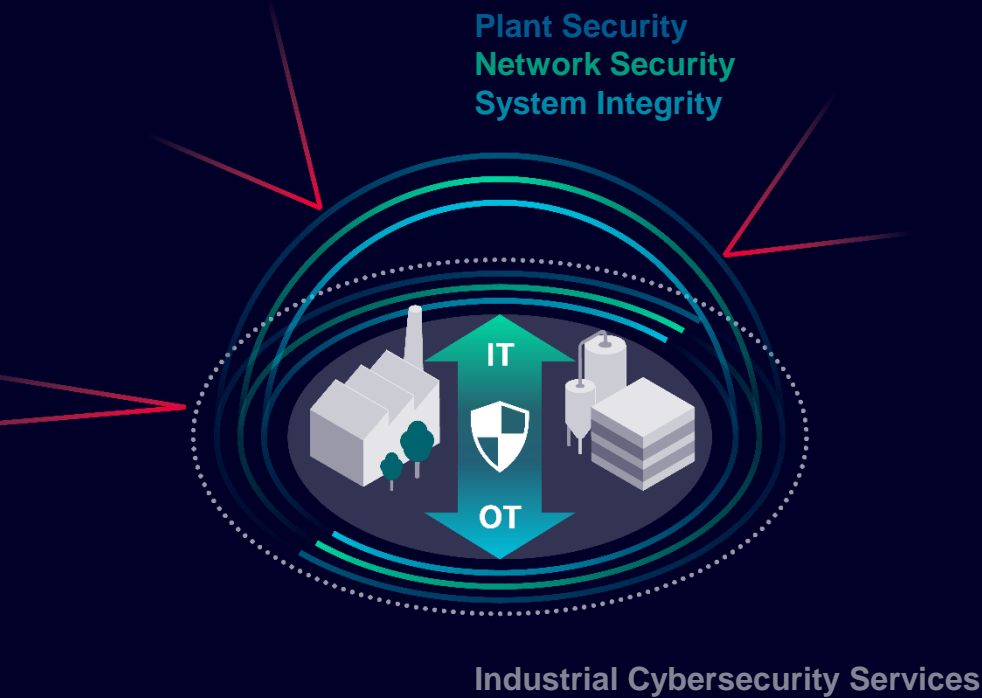
Siemens relies on holistic cybersecurity concept: Defense in Depth



Cybersecurity for Industry: Offering from Siemens

Defense in Depth

based on IEC 62443



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



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.

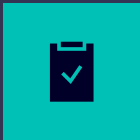
How does it work?

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

Would you like to have a deep assessment based on the best-known security standard for Industrial Control Systems ?	IEC 62443 / NIS 2 Assessment
Do you prefer a compact one-day on-site assessment ?	Industrial Security Check



Main value drivers



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



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.

How does it work?

- Option 1: Active Asset Inventory Scan
- Option 2: Vulnerability Detection Scan



Main value drivers



Transparency over
implemented assets



Detection of
vulnerabilities



Clear guideline to
increase security level

Immediate access to industrial security expertise with Industrial Security Consulting



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.

How does it work?

- **Incident Analysis:** Immediate support in case of incidents (root-cause analysis, remediation strategy)
- **Policy Consulting:** Review and establishing of policies, processes and procedures
- **Network Consulting:** Support for cell segmentation, network design and firewall rules
- **Implementation Support:** Smooth integration of security portfolio incl. training



Main value drivers



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



Incident Analysis

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.

How does it work?

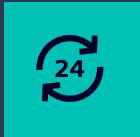
- Collection of forensic information
- Comprehensive analysis of root-cause and criticality
- Recommendation of a proper remediation strategy



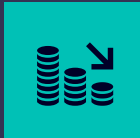
Main value drivers



Immediate access to expert know-how



Supporting fast restoration of production



Reduced downtime cost

Enhance Industrial Security through knowledge with Cybersecurity Training Curriculum as part of SITRAIN access



Cybersecurity Training Curriculum

Industrial Security plays a pivotal role in protecting critical infrastructure. To address these complexities, education is crucial.

The curriculum within SITRAIN access provides you with the knowledge you need to enhance Industrial Security. It focuses on empowering the learners with the knowledge of following key components.

Content

- **Awareness and vulnerability:** Identify potential threats specific to automation systems and take proactive measures.
- **EU Directive (NIS 2):** Comply with the European Union directive for robust protection against cyber threats.
- **IEC 62443 standards:** Familiarize yourself with the international standards for IT security within industrial communication networks.

Get the Learning Membership for the digital learning platform SITRAIN access and learn 24/7 anywhere and anytime. Enlarge your knowledge in small steps or at once.

Main value drivers



Situational awareness regarding security

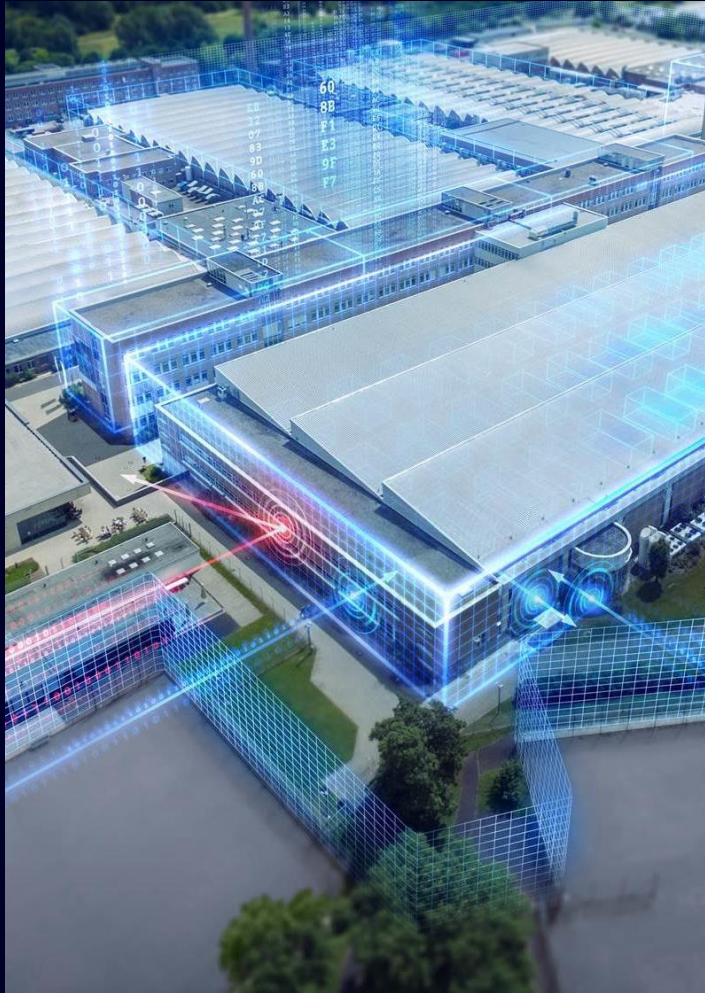


Recommendations how to handle cyber risk



Help identifying security incidents

Secure the “weakest link” in your plant with Industrial Security Training



Industrial Security Training

Digitalization and the increasing networking of machines and industrial systems increase the risk of cyberattack. Appropriate protective measures are imperative, especially for critical infrastructure systems.

Industrial Security Trainings increase the situational awareness to avoid industrial security incidents caused by human error. Book your Learning Event as a training in a real or virtual classroom or onsite at your plant.

How does it work?

The trainings are based on typical daily situations and sample scenarios as well as statutory requirements and guidelines. Participants are introduced to the dangers of industrial plants in the discrete and process industry, analysis of potential weaknesses, evaluation of risks, and how to protect plants in both industry from attacks.

Different trainings are available:

- Basics of Cybersecurity in the Factory Automation
- Basics of Industrial Security for Process Automation
- Security in Industrial Networks



Main value drivers



**Situational awareness
regarding security**



**Recommendations how
to handle cyber risk**



**Help identifying security
incidents**

24/7 managed services for your IT/OT infrastructure with Remote Industrial Operations Services



Remote Industrial Operations Services

Increasing IT/OT system complexity, lack of resources and 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.

How does it work?

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

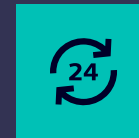
- **24/7 monitoring** of IT/OT Infrastructure to prevent downtime
- **Managed security services and SOC as a Service** (incl. SIEM) for continuous protection against cyber threats
- **Proactive identification of maintenance needs** in your IT/OT infrastructure and spare parts provision to maximize uptime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



Main value drivers



**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)**

Continuous network protection with Industrial Next Generation Firewall



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.

How does it work?

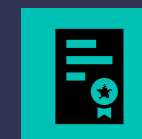
- State-of-the-art Next Generation **Firewall Appliances**
- Additional **Security Subscriptions** for Threat Prevention, URL Filtering and WildFire
- **Support Package** (3 or 5 years) with Premium Support



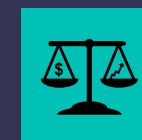
Main value drivers



Continuous protection
against known and
unknown threats

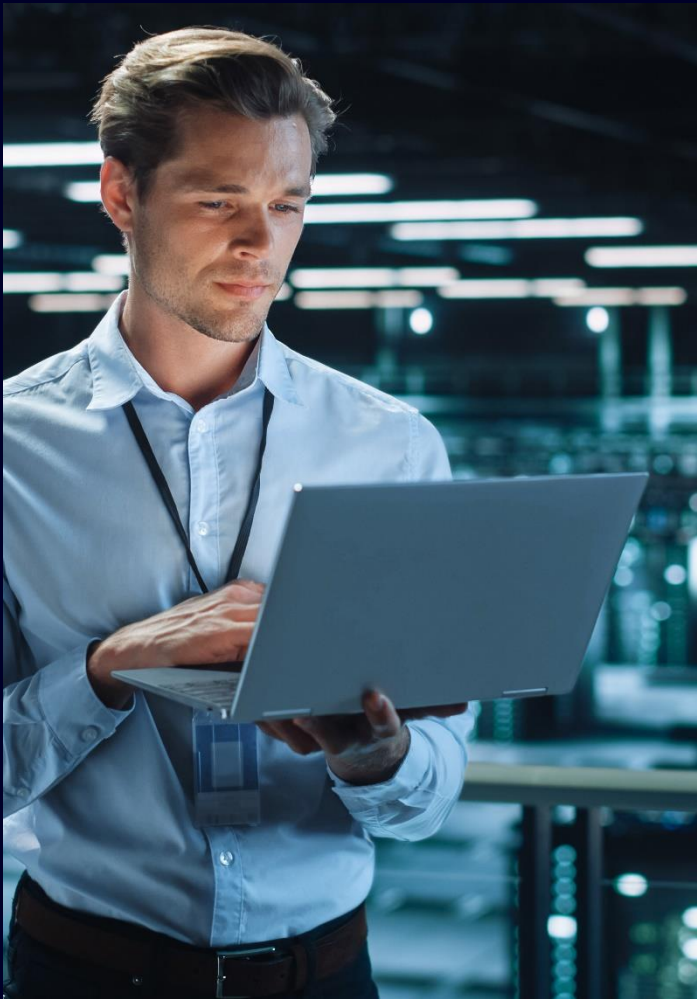


Tested and approved for
SIMATIC PCS 7 and
SIVaaS



Very good price/
performance ratio

Secure data exchange between IT and OT with Industrial DMZ Infrastructure



Industrial DMZ Infrastructure

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

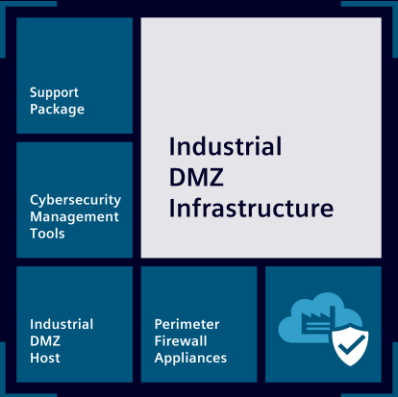
Industrial DMZ Infrastructure is a ready-to-run concept for the segmentation of IT and OT networks with integrated security features in several defense layers.

How does it work?

The concept is based on the principle of the demilitarized zone (DMZ). 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



Main value drivers



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

Secure remote access to industry devices with Remote Platform SaaS

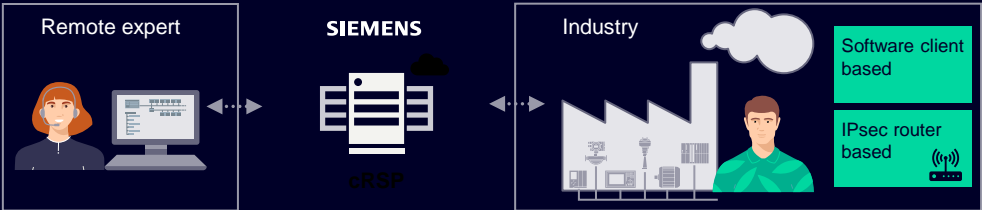


Remote Platform SaaS

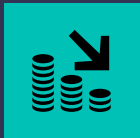
Remote Platform Software as a Service (Remote Platform SaaS) provides a highly scalable and secure remote access infrastructure which is operated and maintained by Siemens. The common Remote Service Platform (cRSP) is designed according to industry requirements in line with IEC 62443 and focuses on access to industrial devices.

How does it work?

cRSP is used for implementing remote access and transferring data to IP-based (Siemens and others) devices. The administration and configuration of the remote platform is self-managed or managed by Siemens. Predefined application templates ensure simple workflows for remote experts. After the initial setup, an authorized remote expert can establish a remote connection to the connected devices through secure VPN tunnel via a software client or IPsec router.



Main value drivers



Less travel and reduced downtime lead to cost reduction and contribute to carbon neutrality



Use of Siemens proven and worldwide available remote platform cRSP



State of the art industrial security

Continuous protection against malware with Endpoint Protection

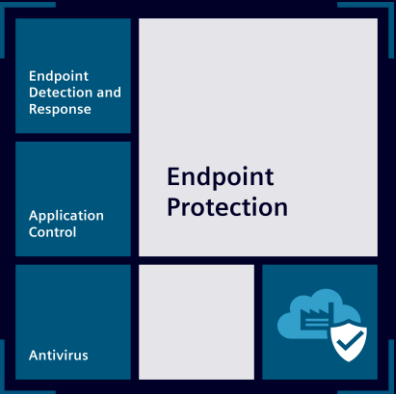


Endpoint Protection

- 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.

How does it work?

- **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 3rd party EDR software version



Main value drivers



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



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.

How does it work?

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!



Main value drivers



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



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.

How does it work?

- **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.

1 Windows Software Update Services



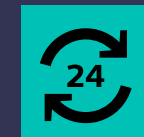
Main value drivers



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)



Backup and Restore

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.

How does it work?

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

Support Package:
3- or 5-year service agreement



Main value drivers



Increased availability thanks to fast disaster recovery and prevented data loss



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



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

Industrial Cybersecurity Services @ Industrial Automation DataCenter



Bridge the gap between IT and OT with Industrial Automation DataCenter



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.

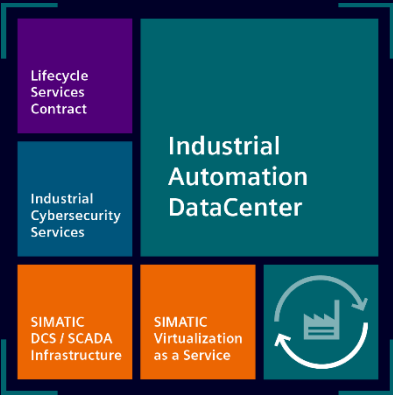
The Industrial Automation DataCenter is a ready-to-run tailor-made IT infrastructure for OT environments – developed by our experts who combine expertise in both fields.

How does it work?

All important 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.



Main value drivers



Ready-to-run high available IT/OT infrastructure



High energy efficiency and space savings



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://www.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.

To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under <https://www.siemens.com/industrialsecurity>