Cybersecurity for your digital transformation

Services and solutions from Schneider Electric

se.com/cybersecurity

Life Is On Schneider Electric

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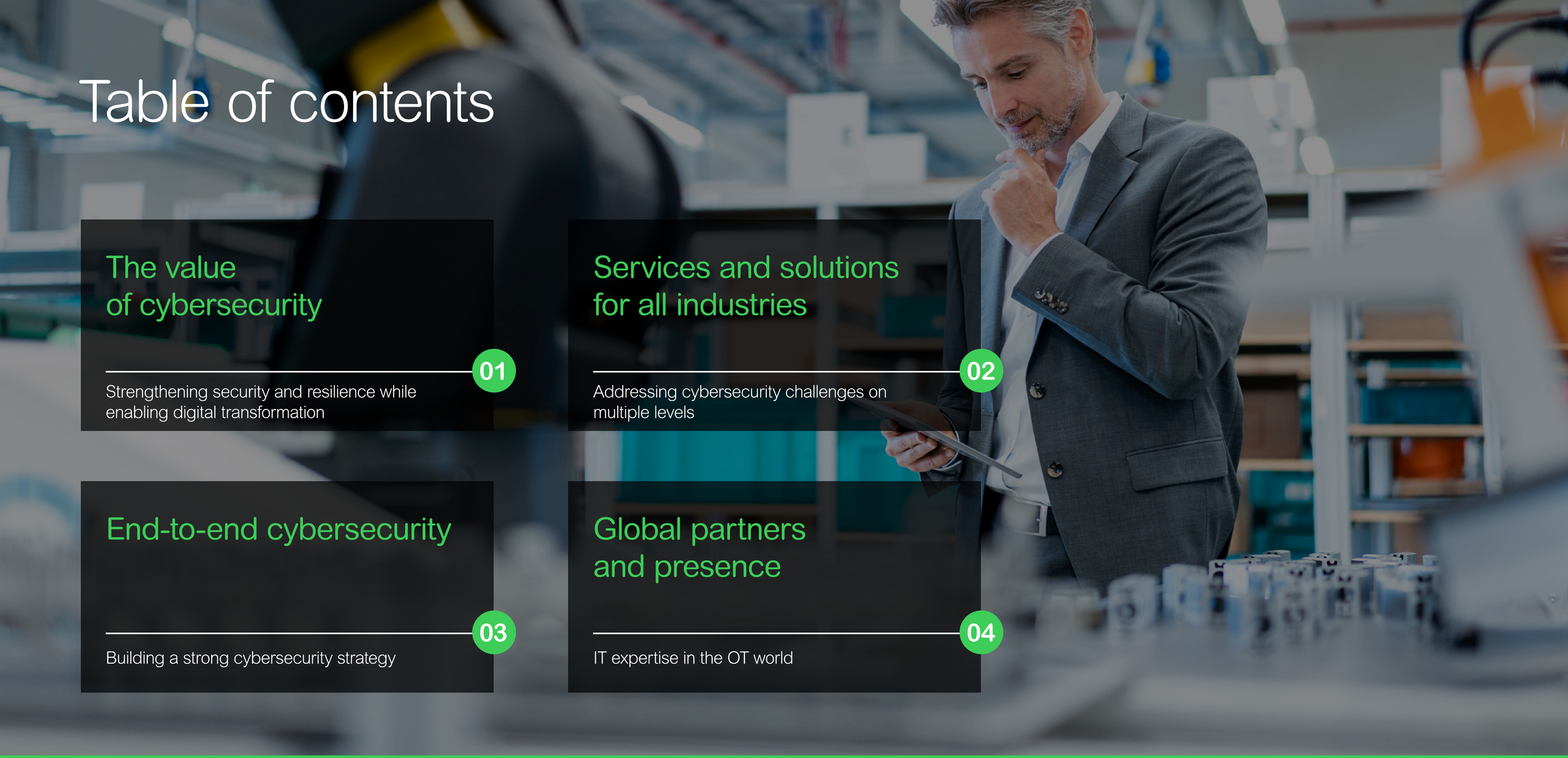

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The value of cybersecurity

Securing your digital transformation

With the increasing use of digital technologies such as cloud computing, mobile, the Internet of Things (IoT) and artificial intelligence, the world is more connected than ever. But besides new opportunities, greater connectivity also brings new challenges and increases vulnerability.

Cyber threats and incidents are a major operating and business risk for every digital enterprise. In the age of digitization, creating and executing a strategy that allows you to see, reduce, and respond to cyber threats and risks is critical. It's the only way to secure your operations and achieve your financial objectives.

Growth in IoT connected devices by 2025

61%
of the world's population will be connected to the internet

75.44 billion
connected IoT devices

28.7%
CAGR over 2018-2025 period in the amount of data created by connected IoT devices

152,200
IoT devices will be connected every minute

Sources:
IDC, GSMA, Accenture

Want to learn more about the latest trends in cybersecurity?

Visit our cybersecurity blog

Growing cybersecurity threats

With businesses relying more on the internet and connected assets, cyber attacks have become a constant threat to companies in every industry. That's why most enterprises have come to understand the importance of having a cybersecurity strategy in place.

22%
of security issues stem from outdated and unpatched software

Source:
Bulletproof Annual Cyber Security Report 2019

67%
is the increase in security breaches over the last 5 years

Source:
Accenture's 2019 Annual Cost of Cybercrime Study

$3.8 million
is the average cost of a cybersecurity breach

Source:
Ponemon Institute's 2018 Cost of a Data Breach Study

Only 2%
of IT budget is used for security

Source:
Canalys' Cybersecurity analysis, March 2019

Within 5 min.
is the average amount of time it takes for an IoT device to be attacked after going online

Source:
NETSCOUT

Every 14 sec.
a ransomware attack occurs

Source:
Cybersecurity Ventures' 2019
Official Annual Cybercrime Report

Services and solutions for all industries

The three pillars of cybersecurity

Any cybersecurity strategy is only as strong as its weakest link. That's why it is fundamental to identify and mitigate risks by applying standards and good practices throughout the whole line of defense which must integrate people, processes, and technology.

People

Strong cyber protection requires an educated and aware workforce.
In many cases, your people are your first and last line of defense. A crucial element of this area is creating and communicating a company-wide security culture, advanced by ongoing training.

Processes

In order to identify and eliminate cyber risks, you need to establish and adhere to good processes, practices, and policies. Companies should begin with consistent, regular risk and threat assessments and gap analyses.

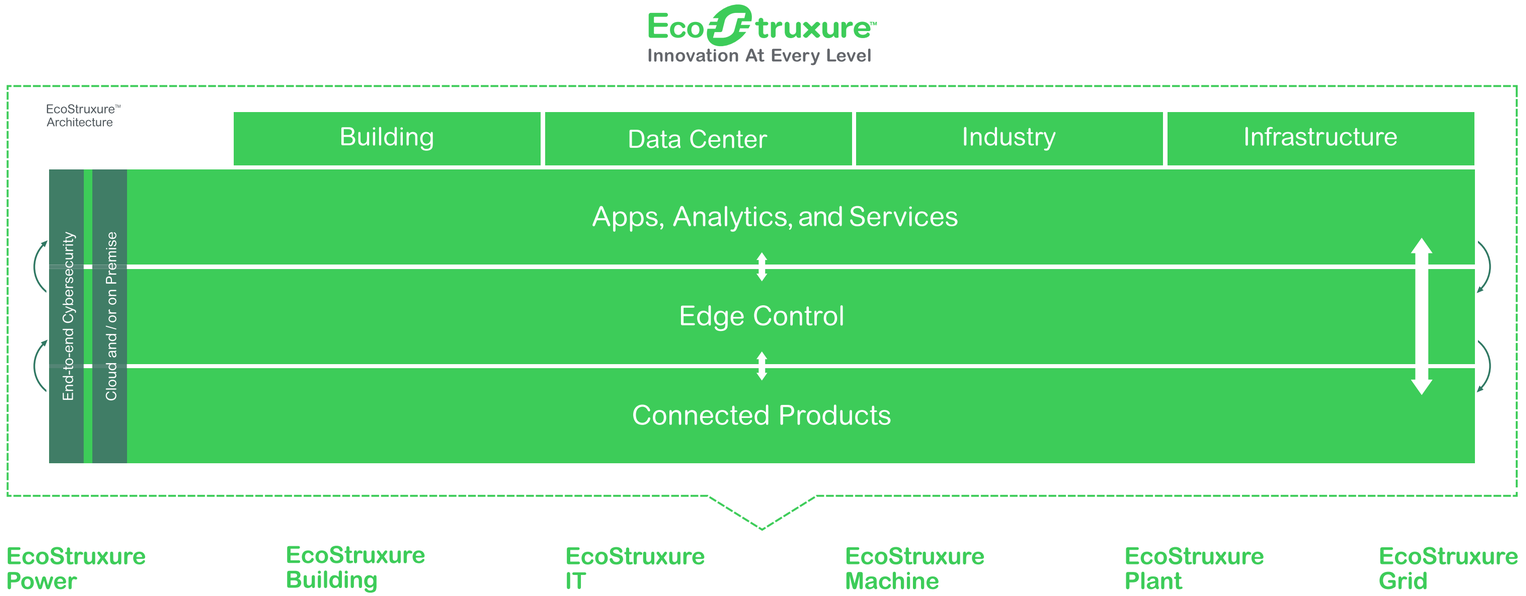
Technology

Your cyber defense is only as strong as the technology deployed to manage and control your operations. This aspect is all about protecting what your company develops and deploys, as well as ensuring that the technology coming from your supply chain vendors is secure.

Cybersecurity at every level

As a manufacturer itself, Schneider Electric embeds security throughout its vendor-neutral, open, IoT-enabled architecture and platform: EcoStruxure™. It includes an open but tailored stack of connected products; edge control level solutions and software; and cloud-based apps, analytics, and services.

End-to-end cybersecurity supports applications and data analytics, embedded across these layers, which converge IT and OT equipment and solutions, software, and services within six domains of expertise.



A defense in depth approach

Companies expect that the products they buy include everything necessary to mitigate cybersecurity risks. But the products alone are only a starting point. The way the systems are implemented and integrated into your environment is also critical. The processes for implementation and integration of systems must protect the integrity of your environment.

Once the systems are operational, many other aspects must be considered as part of the overall operation, depending on your risk assessment. These range from simple firewalls to network segregation and testing.

Besides that, there are dedicated services that provide an objective perspective and broader experience in reviewing or developing your solution design, training your team, or even providing an ongoing managed security service.

Serious about cybersecurity?

Sign up for the Schneider Electric Cybersecurity Virtual Academy

Addressing cybersecurity challenges on multiple levels

Effective cybersecurity encompasses your entire OT environment – from products and systems through to ongoing services

Cybersecurity solutions for operational life cycle:
Consulting, integration, and managed security services

Technology partnerships:
Situational awareness, compliance, change management, big data security

System deployment:
Secure delivery of project and services during product or system deployment

Cybersecurity by design:
secure products, solutions, software

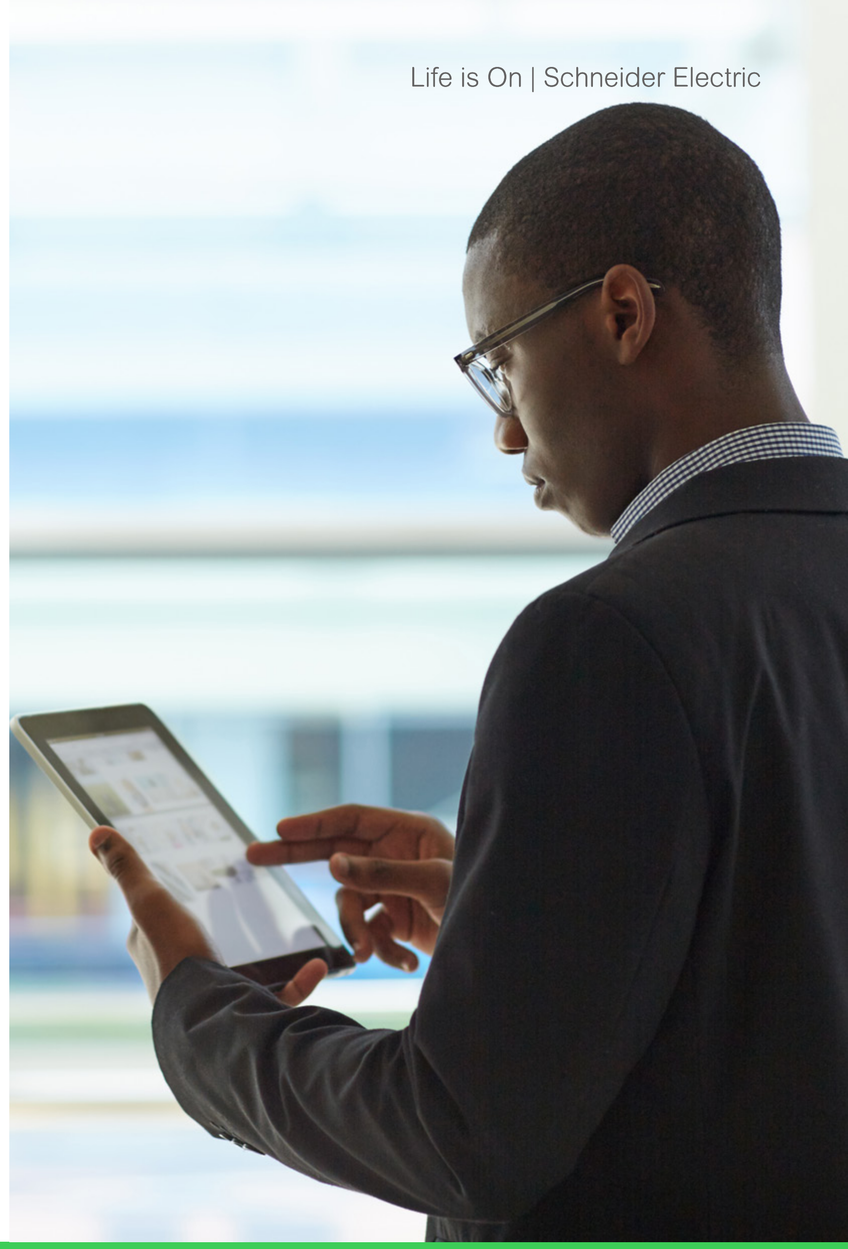
Defense in depth approach

Our 360˚ cybersecurity solutions include:

- A certified team of cybersecurity experts who understand your process requirements, enterprise needs, and business environment.
- A dynamic ecosystem of partnerships and platforms including governments, universities, and suppliers that help drive research, policy, and collaborative projects to produce a holistic, security-conscious offering.
- An ISO conformant vulnerability management process that is activated upon external notification, vulnerability disclosure, or customer report.
- An advanced global threat intelligence center that actively monitors cyberspace for threats to our products and customers.
- 150+ products that are cybersecurity standards certified for electrical and process installations.

Want to learn more about our cybersecurity solutions?

Visit our YouTube channel



End-to-end cybersecurity

Global cybersecurity standards

Products guided by the ISA / IEC 62443-4-1 standard address security from the very beginning of product development through the life cycle. This standard is employed within Schneider Electric services and solutions.

Schneider Electric is a founding member of ISA Global Cybersecurity Alliance.

ISA / IEC 62443-4-1 Standard

World's only consensus-based standard for automation and control system applications

Defines requirements and procedures for implementing secure systems

Flexible framework to address and mitigate current and future security vulnerabilities

Leverages a holistic approach, bridging the gap between operation and information technology, as well as between safety and cybersecurity

Our solutions for your operational life cycle

Schneider Electric is committed to providing solutions that support your needs for cybersecurity protection across all business types and industries. We apply a rigorous mindset, policies, and methodologies in the development of our products and the implementation of our solutions.

Skilled and certified professionals provide vendor-agnostic services to help you assess your risk, implement cyber-specific solutions, and maintain your defenses over time at your location.

Security Consulting

Policy and procedure
Asset inventory
Gap analysis
Risk and threat
Compliance

Design & Implementation

Defense in depth
Secure architecture
Asset management
Security assurance level
System hardening
Solution integration

Training

Security awareness
Security engineer
Security administrator
Advanced expert

Monitoring

Firewall Security
Device Management
Threat Management
Device Security
OT SIEM Support

Maintenance

System upgrades
Security patches
Incident response

Our solutions for your operational life cycle

Security Consulting

Our cybersecurity consultants will help you assess and review your systems to detect gaps, risks, uncover any security malpractices, assess your staff's security competencies, provide emergency response services, and more.

Design & Implementation

With an understanding of your unique needs, requirements, and knowledge of best practices and industry standards, our engineers can design, develop, and implement an effective security architecture. We help protect your critical infrastructure through a 'defense in depth' based security approach that can be customized to meet your needs, from elements of basic SL-1 compliance to a comprehensive solution.

Monitoring

The cybersecurity solutions will be monitored to detect threats, apply patches as well as to ensure the smooth functioning of devices and the system as a whole.

Maintenance

It is critical to continually review and update your cybersecurity protection. We work with your team to ensure that your systems and skills are up-to-date and tested regularly to maximize your security and peace of mind.

Training

People are the most important element in ongoing, effective cybersecurity protection. Designing and delivering effective training for different roles in your organization is critical. From basic awareness to expert-level skills, our team can help you develop your company's cybersecurity culture by designing and delivering a range of training and education.

Cybersecurity solutions portfolio

The solutions we design and implement are flexible and customized to meet your specific needs and requirements. The most critical cybersecurity solution elements are defined in four categories.

Permit – manage access to operations systems and information through network and physical controls.

Protect – implement specific controls as part of the operations systems for ongoing protection.

Detect – monitor the operating environment to detect and communicate threats.

Respond – develop procedures and systems to support rapid response to cyber incidents to contain and mitigate attacks.

Permit

- Authentication, Authorization, Accounting
- Multi-Factor Authentication
- Network Segmentation
- Secure Remote Access
- Physical Security

Protect

- Endpoint Protection, Anti-malware,
- DLP, HIPS, Whitelisting
- Removeable Media Control
- Patch Management

Detect

- Security Information & Event Management (SIEM)
- Network Performance Monitoring
- Asset Identification
- Anomaly Detection
- Intrusion Detection

Respond

- Backup / Disaster Recovery
- Forensics
- Incident Response

Cybersecurity for the digital age

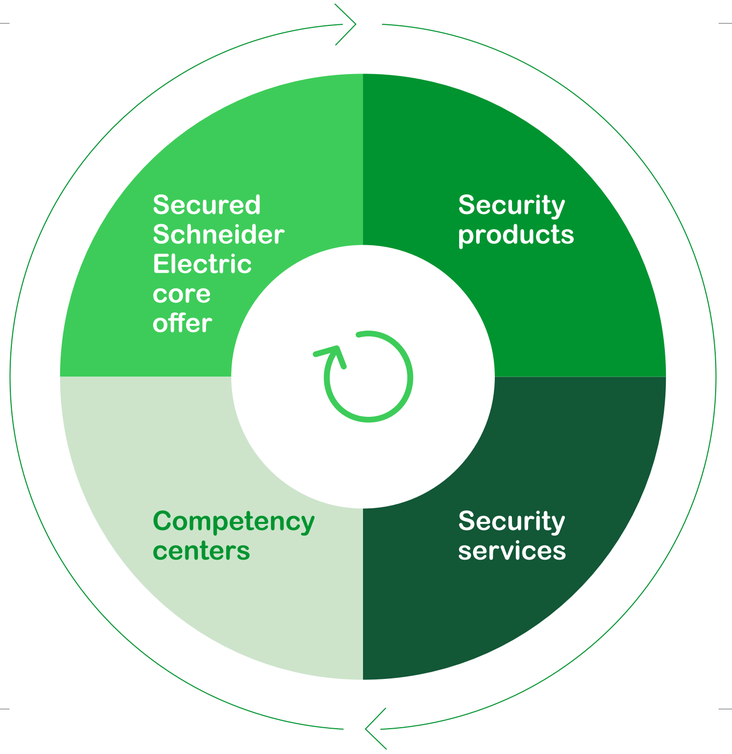
Whether you're not sure where to start, or need help to implement a cybersecurity strategy, our experienced and qualified experts will work with your unique situation and requirements to help address your cybersecurity challenges with solutions that fit your needs.

We understand and apply cybersecurity solutions from your operations perspective while integrating appropriate IT policies and requirements – this is our difference and your advantage.

Our 360˚ Cybersecurity Solutions

Required to provide competitive and reliable products and platforms.

Centralized security knowledge and interoperable security solutions.



Security product interoperable with core offering. Best of breed partnership ecosystem.

End-to-end consulting, integration, maintenace and managed services worldwide.

Global partners and presence

A rich ecosystem of partners

Every company today must leverage an extended enterprise approach to address and eliminate vulnerabilities.
The advantage of an open ecosystem is that it can be enhanced by solutions from other industry-leading vendors.
That's why Schneider Electric works with our global partners to deliver the best possible products, services, and solutions.

Global reach

Schneider Electric has a rapidly growing global team focused on cybersecurity. We leverage a strong IT experience and deep knowledge of the OT world to help customers understand what they have today and where the biggest gaps are in managing cybersecurity.

Our quick reaction team is ready to help our customers act quickly in case of a cyber attack – to assess potential damages and recover.

Schneider Electric is a proud member of:

- ISA Global Cybersecurity Alliance
- Cybersecurity Coalition
- Cybersecurity Tech Accord

Team certifications

Increasing cybersecurity across industries

No matter which industry you operate in, Schneider Electric can help you implement an overarching cybersecurity solution. Our vast expertise covers all industries from Food & Beverage to Oil & Gas and Petrochemicals.

SITE #1

(France – Leading food production company)

Cyber offering:

- IT / OT integration
- DMZ implementation
- Design and deploy secured architecture
- Global user management system, network monitoring

Success factor:

- Customized solution meeting customer's global operation demands
- Centralized host and network solutions meeting industry and national standards

SITE #2

(Qatar – LNG leader in the Middle East)

Cyber offering:

- Cybersecurity Demilitarized Zone (DMZ) implementation
- Modernization of CS controls in OT Network
- 3rd party IT / OT integration for ICS

Success factor:

- Customized systems offered for ICS, OT Network, + IT interface
- Managed multi-vendor, OEM systems

Strengthening your cybersecurity

Strong cybersecurity is a business requirement.

Secure data collection and transmission is critical when harnessing the benefits of IoT.

Schneider Electric is committed to supporting your digital transformation.

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Visit our website to learn more about how to protect your business from cybersecurity threats.

se.com/cybersecurity

SE Blog

Contact our cybersecurity team: **cybersecurity-services@se.com**

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