



Remote Industrial Operations Services

Presentation

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:

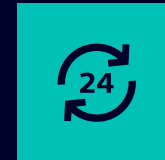
- 24/7 monitoring of IT/OT Infrastructure to prevent downtime
- Managed security services and SOC as a Service for continuous protection against cyber threats
- Proactive identification of maintenance needs in your IT/OT infrastructure and spare parts provision to maximize uptime
- Expert IT and OT technical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



How do you ensure the
operational continuity and
security of your IT/OT
environment?



Challenge

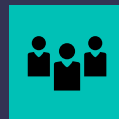
IT/OT complexity, resource constraints and cybersecurity threats pose significant risks to operational continuity. Even the failure of the simplest component can lead to a domino effect, causing operational downtime.

Is there a solution?

How to deal with the **increasing gap between IT and OT?**



How to manage the **aging expertise and lack of resources?**



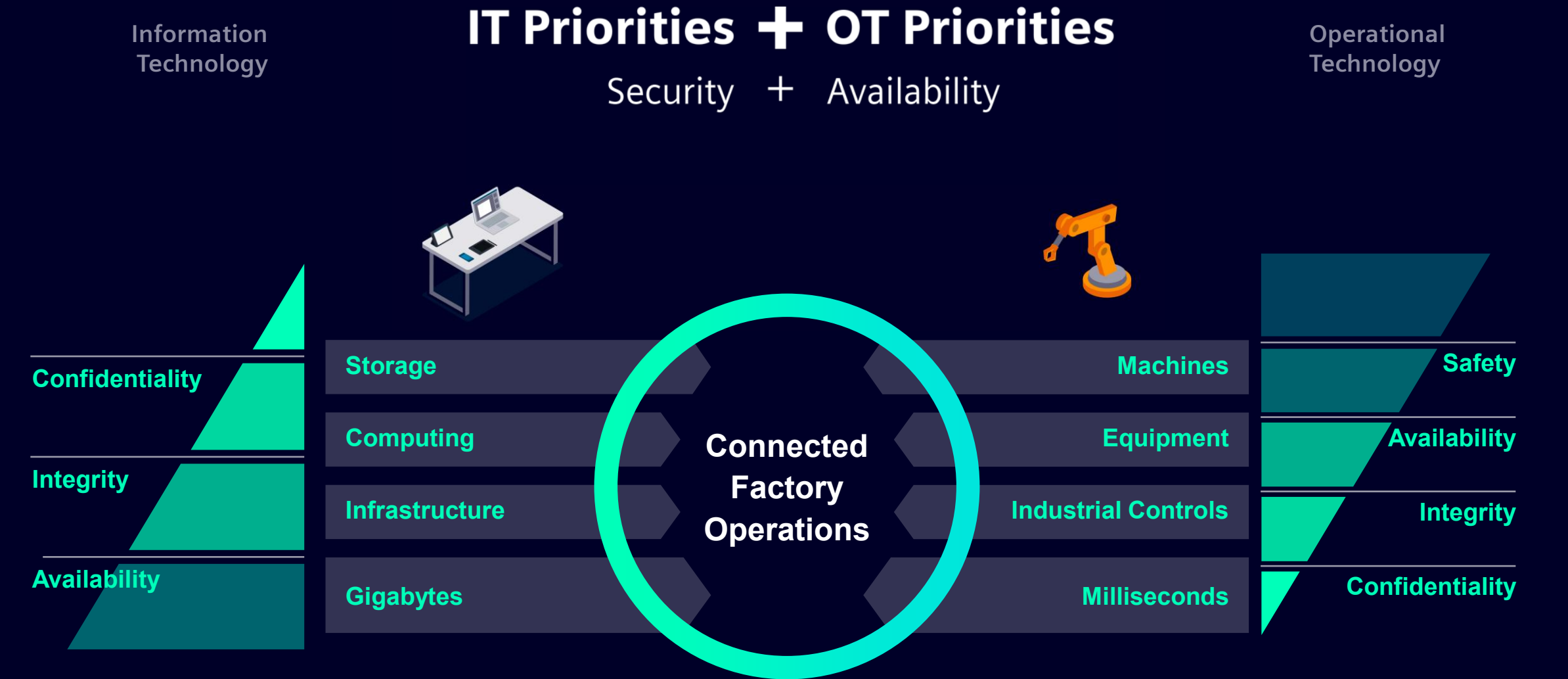
How to avoid **unplanned maintenance and downtime?**



How to face the **lack of compliance with OT security requirements?**



IT-OT convergence promised a solution.
Why has this been difficult to achieve in practice?



IT/OT Challenges, Risks and Impacts

Challenges



46%

Resources

of companies point to limited resources as the biggest challenge in managing OT risk.
ComputerWeekly.com

25%

IT/OT Gap

of companies say modernizing IT and OT workflows is a collaborative process between both teams
Forrester

2024

Compliance

Is the year that all important entities within the member States need to show compliance. In case of non-compliance: a maximum fine of at least € 7,000,000 or at least 1,4% of the total worldwide annual turnover.
European Parliament

Risks



25

Unplanned Downtime

hours a month of unplanned downtime for the average plant
Senseye

61%

Cyber Threats

of smart factories have experienced a cybersecurity incident
Manufacturing Automation

Impacts



Decreased Productivity

- Decreased capacity
- Higher costs
- Production loss



Lack of Compliance

- Cybersecurity hacks & ransomware
- Regulatory penalties and fines



Customer Dissatisfaction

- Negative brand reputation
- Loss of competitive advantage



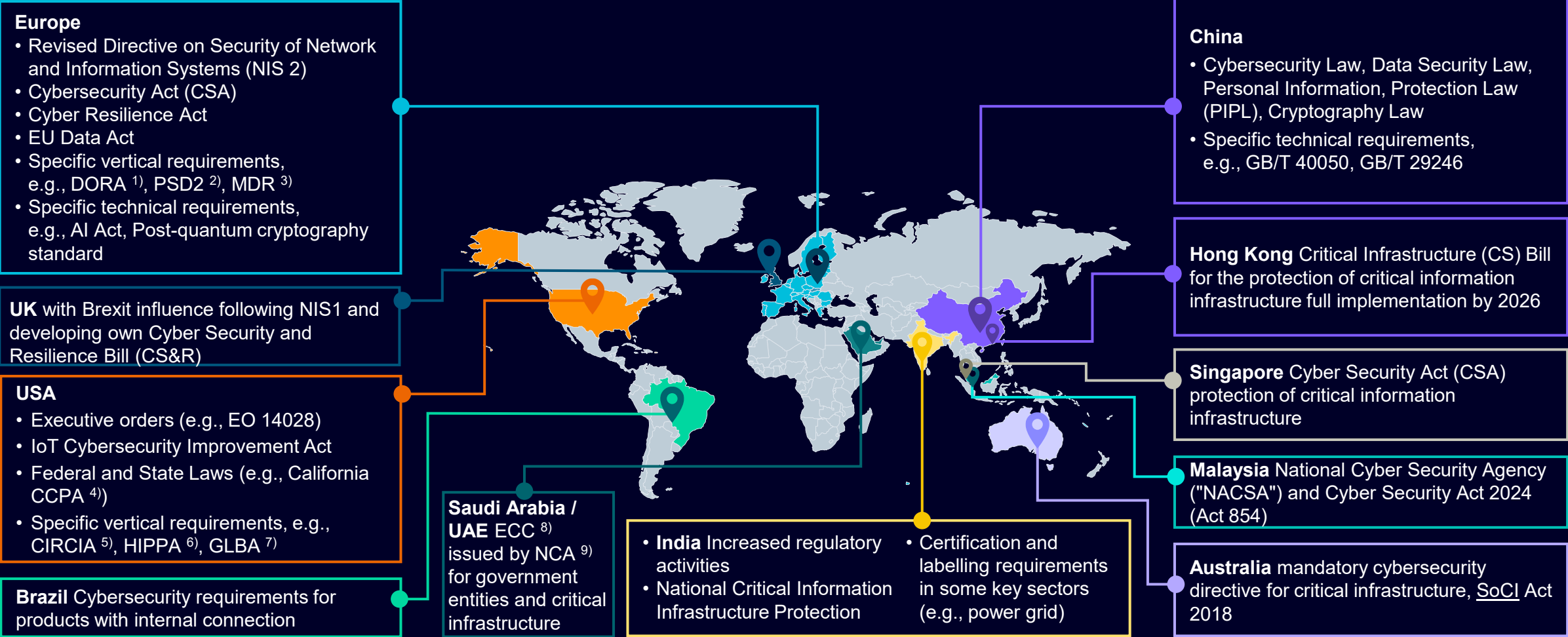
Stakeholder Concerns

- Investor profitability concerns
- Erosion in stakeholder value

ComputerWeekly.com | [A lack of skills and ownership are top challenges to OT security](#); Forrester | [Use IT And OT Integration As A Lever For Digital Transformation](#); European Parliament | [Article 34](#); Senseye | [The True Cost of Downtime 2022](#); Manufacturing Automation | [61% of manufacturers have had a cybersecurity incident](#);

OT Cybersecurity Legislation

Relevant global frameworks



1) DORA: Digital Operational Resilience Act; 2) PSD2: revised Payment Services Directive; 3) MDR: Medical Device Regulation 4) CCPA: California Consumer Privacy Act; 5) CIRCIA: Cyber Incident Reporting for Critical Infrastructure Act; 6) HIPPA: Health Insurance Portability and Accountability Act; 7) GLBA: Gramm-Leach-Bliley Act; 8) ECC: Essential Cybersecurity Controls; 9) NCA: National Cybersecurity Authority

24/7 Managed Services

Remote Industrial Operations Services

What are Remote Industrial Operations Services?

Our Operations Center takes care of.....



Security



Availability



Maintenance



Support



Secure and reliable plant operations with Remote Industrial Operations Services

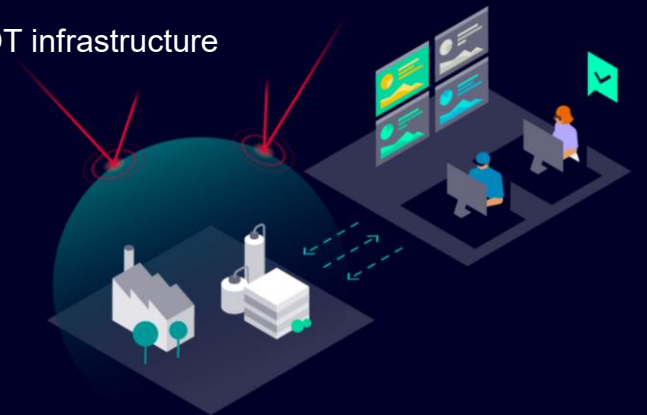


Solution and Service

With Remote Industrial Operations Services, you have a team of proven experts behind you that proactively takes care of your plant's security and operational continuity. You don't need to build up your own resources and specialized know-how to manage your IT/OT infrastructure and cybersecurity. As your partner we provide 24/7 remote monitoring and modular managed services for your IT/OT infrastructure allowing you to focus on your core business.

The modular contracting of Remote Industrial Operations Services enables you to select only the services you need:

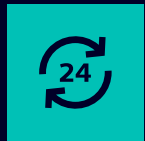
- **24/7 monitoring** of IT/OT infrastructure to prevent downtime
- **Managed security services and SOC as a Service** for continuous security monitoring and management to protect you against cyber threats
- **Proactive identification of maintenance needs** in your IT/OT infrastructure and spare parts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



Remote Industrial Operations Services

Modular services

Services including reporting



Available

Continuous Monitoring	
Incident Management	Optional
Network Management	Optional
Domain Management	Optional



Secured

Vulnerability Management	Optional
Anomaly Detection	Optional
Security Operations Center	Optional



Maintained

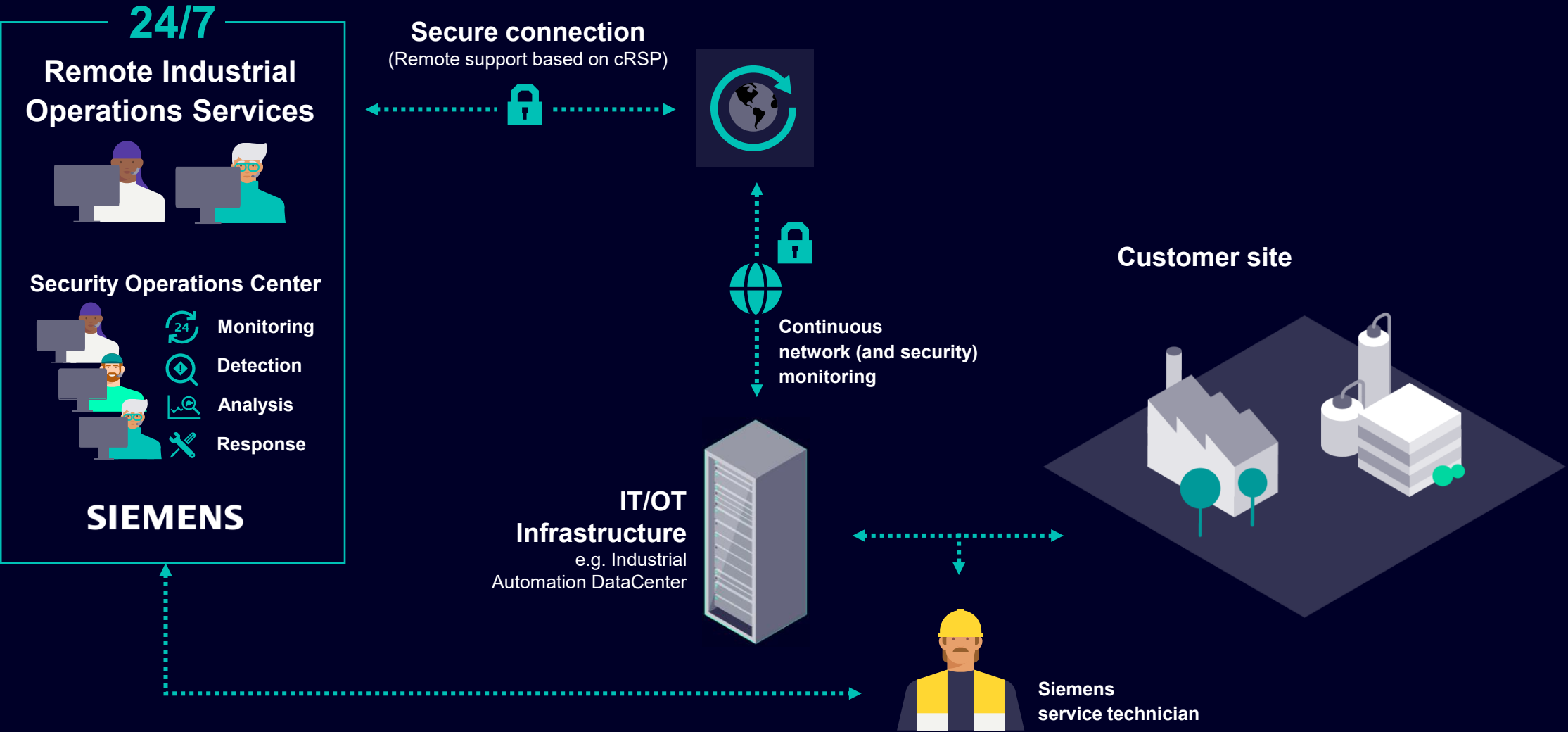
Periodic & Preventive Maintenance	Optional
Updates & patches	Optional
Back-up & Restore	Optional



Supported

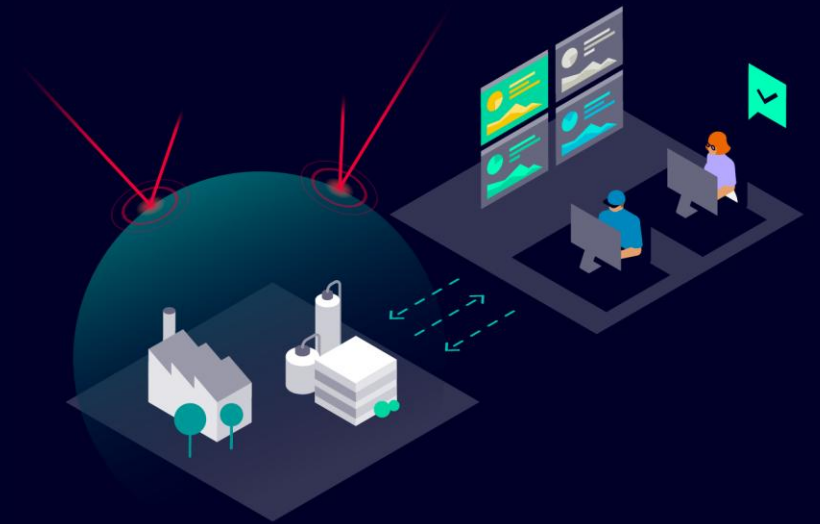
Remote Support (via secure VPN connection)
Service Desk
Service Request
Technical Product & Hardware Support

How does the management of the IT/OT infrastructure work?



Module Security

Security Operations Center as a Service



Security Operations Center as a Service (SOCaaS)



Continuous
Security
Monitoring



Threat
Detection

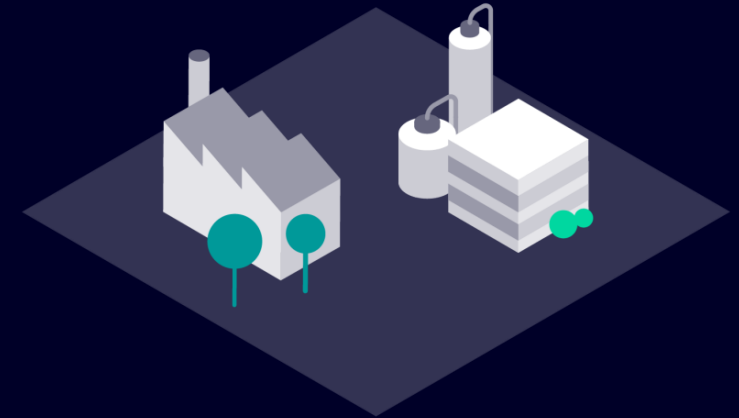


Data analysis



Incident
Response

... for your IT and OT
environment



Security Operations Center as a Service (SOCaaS)

Key drivers



Regulations
KRITIS
NERC
NORTH AMERICAN ELECTRIC
RELIABILITY CORPORATION



30 billion end
points by 2030¹



6.06 billion
malware attacks in
2023²



Why Siemens?



Our new portfolio supports you in
fulfilling governmental regulations.



Expertise in OT and IT support



Proactive approach for up-to-date
protection for our customers

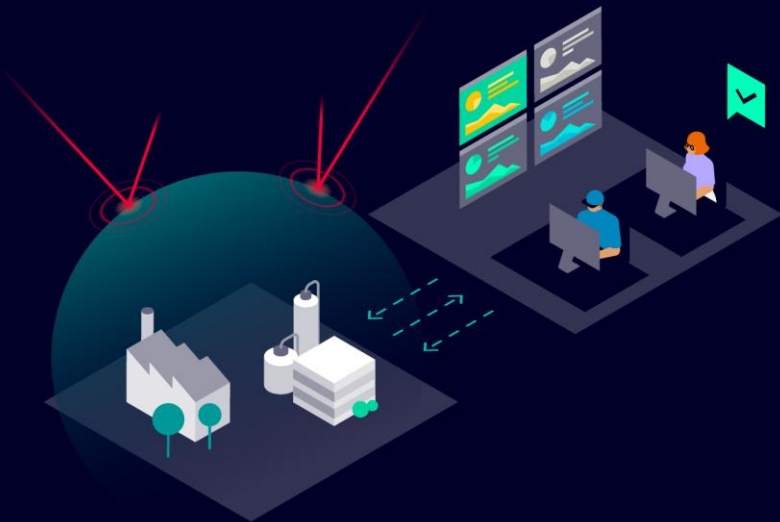


Profound experience from
industry for industry



Future-proof concept – cloud
solution.

Operational continuity



1 17 billion global IoT devices in 2024 | 2 Includes broad range of cyber threats affecting both IT systems and other digital environments | **Source:** Stakeholder interviews, [Statista](#)

Security Operations Center as a Service (SOCaaS)

Real-time Security Monitoring

A SOC provides 24/7 monitoring and analysis of your environment to uncover any suspicious activity or behavior.

Responds to Incidents

Incident response and recovery. A SOC acts as a first responder for security incidents.

Once an attack has been identified, the SOC responds by performing actions in close alignment with your experts to limit the disruption to the business through actions like isolation endpoints, terminating harmful instances, deleting malicious files, and more.

Detects Threats

A SOC detects threats based on triaging and correlating multiple indicators from your environment. In our case the threat detection is based on a) Indicator-of-Compromise, b) Tactics, Techniques and Procedures of malicious actors, c) Anomalies and d) Standard Operating Procedures.

Complies with Regulations

A SOC can help organizations comply with various security regulations, such as NIS2, KRITIS, NERC and more

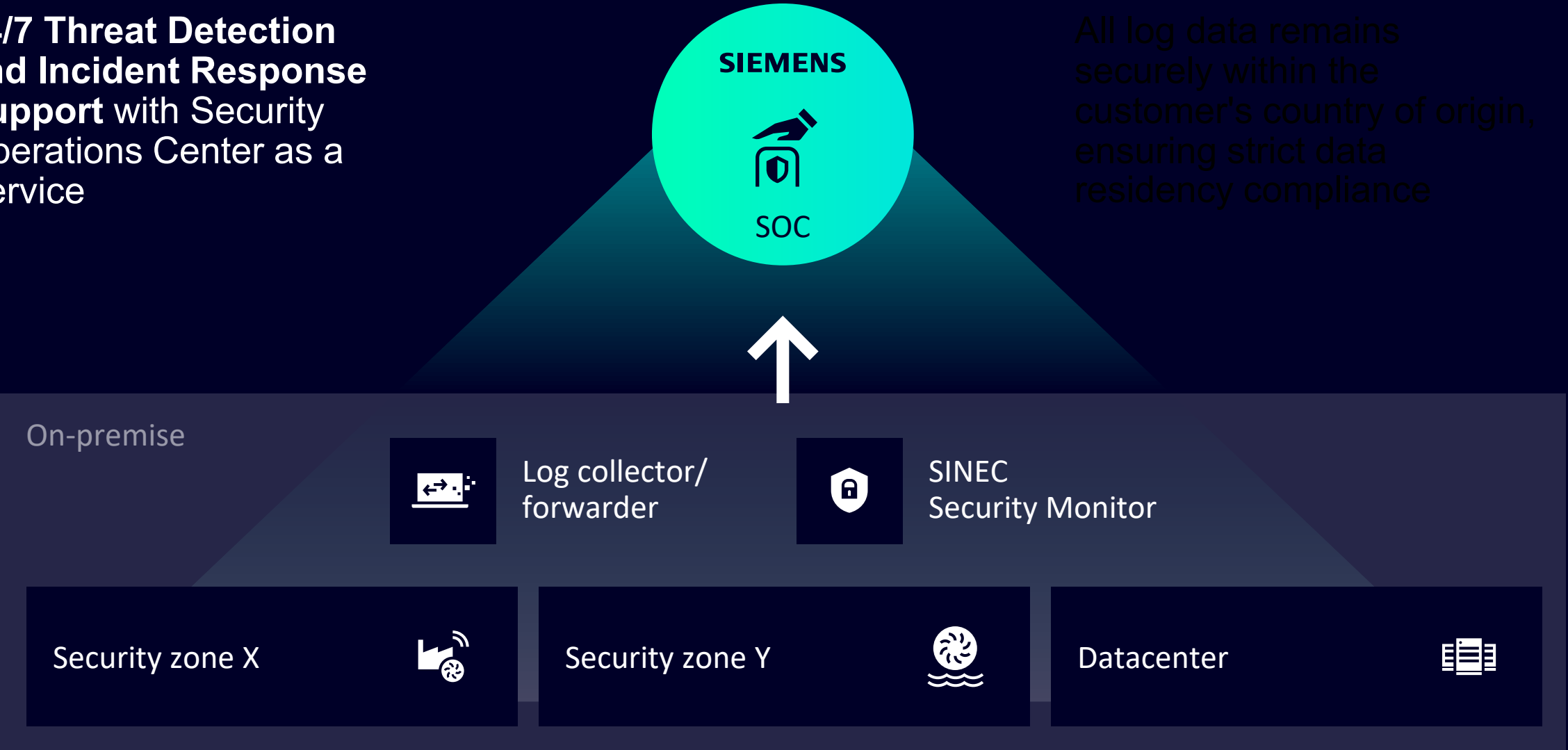
Decreases Cost of Breaches

A successful breach can be very expensive for organizations, from loss of production, regulatory sanctions to reputational damages.

Recovery often leads to significant downtime. By getting ahead of attackers and responding quickly to incidents, a SOC helps organizations save time and money as they get back to normal operations.

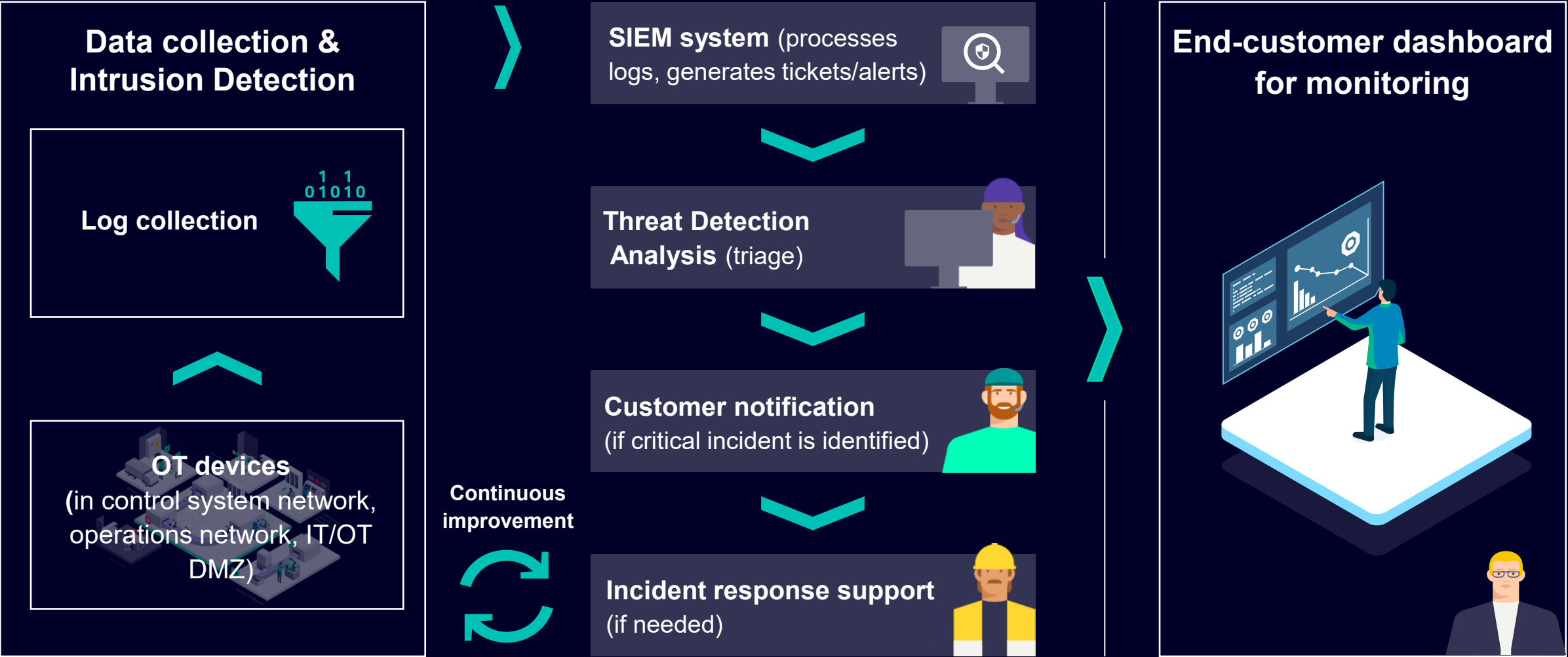
24/7 Threat Detection
and Incident Response
Support with Security
Operations Center as a
Service

All log data remains
securely within the
customer's country of origin,
ensuring strict data
residency compliance



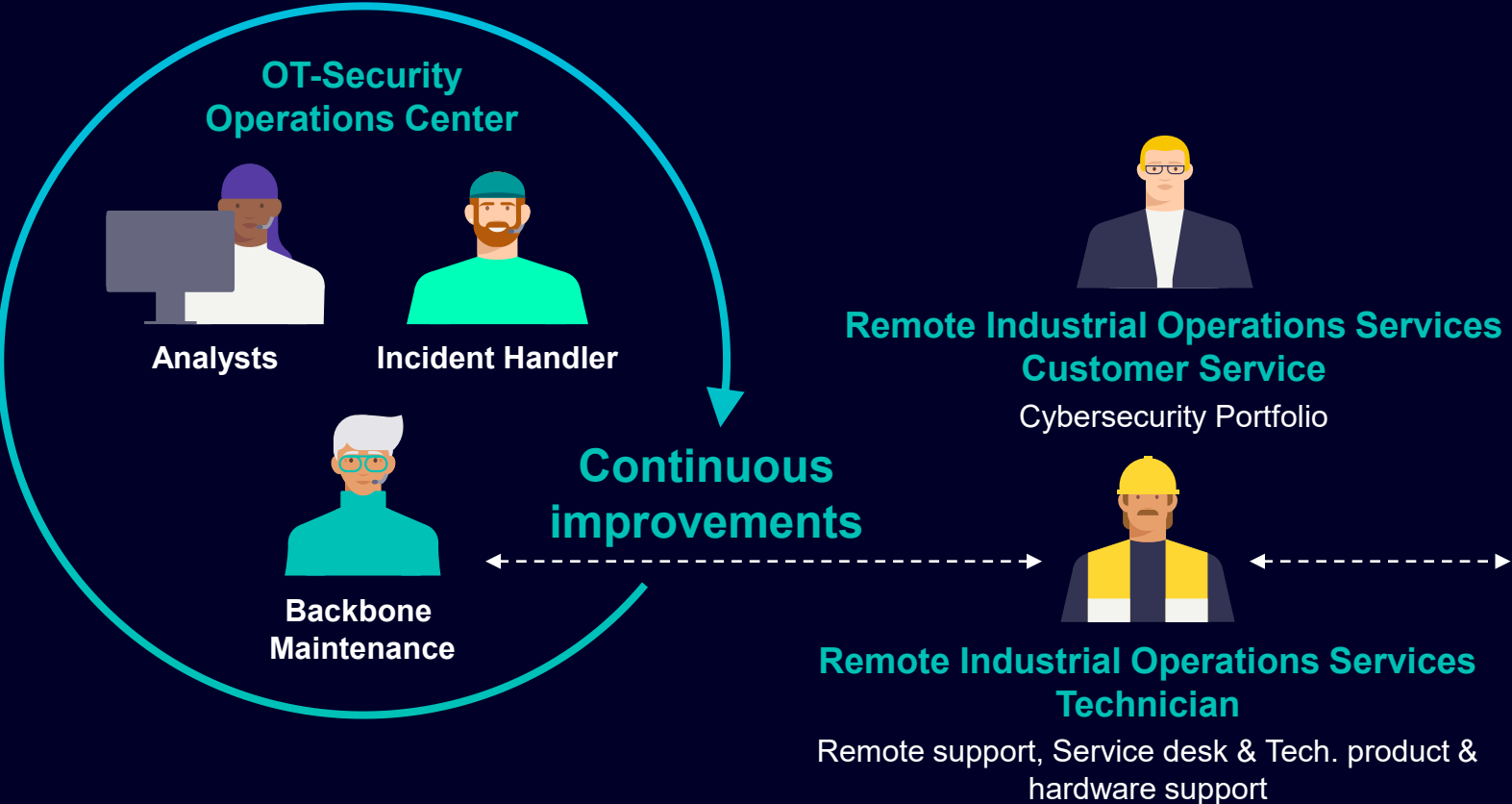
OT Security Operations Center as a Service

including log collection, threat detection analysis, triage workflow and incident response



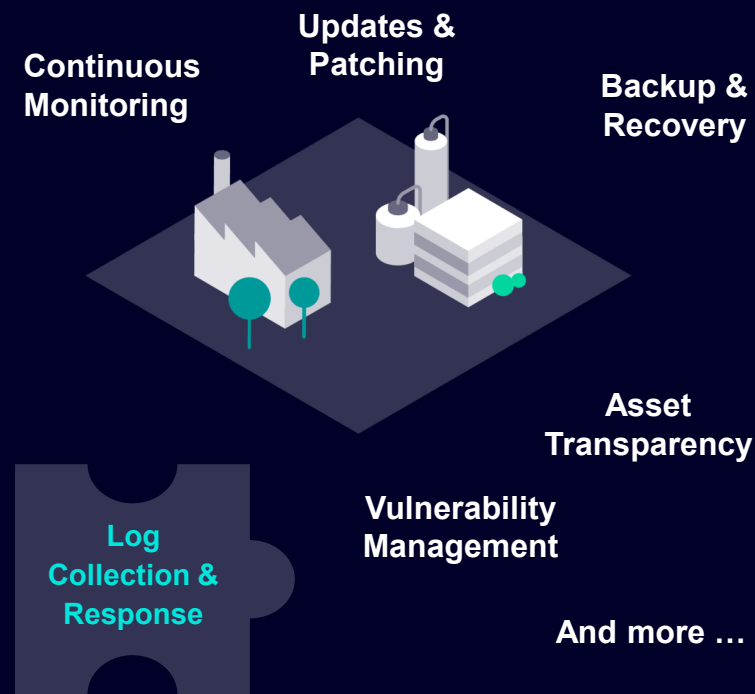
OT Security Operations Center as a Service (SOCaaS) with Remote Industrial Operation Services

Remote Industrial Operations Services including SOCaaS

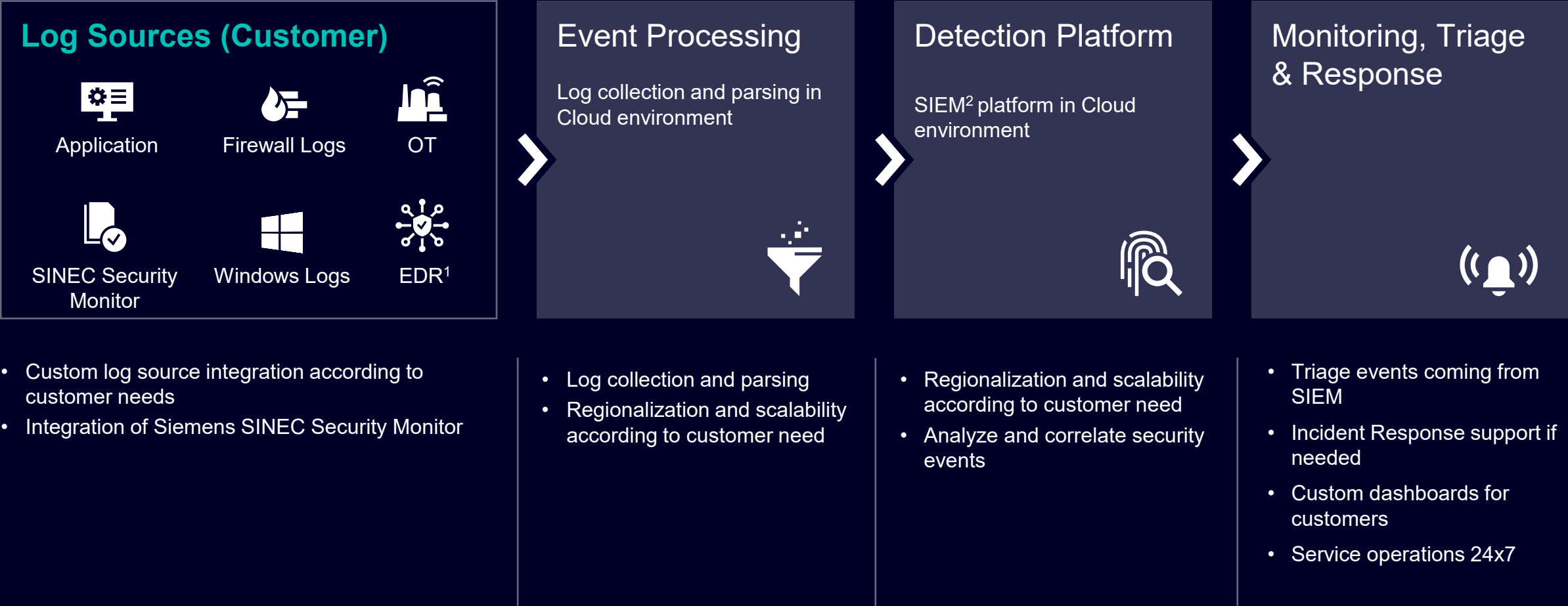


Customer

Managed Security Services



OT SOCaaS with Remote Industrial Operations Services



¹ Endpoint Detection & Response | ² Security Information & Event Management

Why should you choose Remote Industrial Operations Services?



Direct access

to 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)

Customer Case Studies

Tata Steel Nederland

Protection of critical IT/OT infrastructure with Remote Industrial Operations Services

Tata Steel is one of the largest steel manufacturers in the world, with an annual crude steel capacity of 35 million tons and more than 77,000 employees worldwide.

- Customer objectives**
- The Hot Strip Mill and Hot Dip Galvanizing Line use the Industrial Automation DataCenter.
 - They required support with maintaining and securing their critical IT/OT infrastructure due to resource constraints and the need for specialized expertise.

- Solution and Service**
- Remote Industrial Operations Services for expert maintenance and security**
- System availability is optimized through various services such as continuous monitoring for early detection of issues, incident management for quick restoration to normal operations, disaster recovery support in case of a shutdown, as well as regular reporting for transparency and accountability.
 - The system is protected through various security measures such as patching, traffic monitoring and vulnerability management.
 - The maintenance of the infrastructure includes update services, preventive and periodic maintenance, backup and restore, configuration and change management as well as asset management.
 - Siemens provides remote support and expert assistance as well as technical product and hardware support for the Industrial Automation DataCenter.

- Customer benefits**
- Through the proactive and continuous monitoring as well as regular maintenance, issues are detected and resolved early on, thereby reducing downtime and costs and maximizing operational continuity.
 - By implementing comprehensive cybersecurity measures the plant is protected from cyberattacks.
 - They have a central point of contact for resolving any questions and issues.

Siemens References ID: [38896](#)



4-5
Shutdowns prevented

Waterschap Limburg, water board, Netherlands

24/7 Security Operations Center as a Service and Anomaly Detection with Remote Industrial Operations Services

Waterschap Limburg

Regional water management organization in the province of Limburg in the Netherlands, Water & Wastewater, <https://www.waterschaplimburg.nl/>

- Customer objectives
- Protect critical water and wastewater infrastructure from sophisticated cyber attacks targeting OT (automation) environments, given the high societal impact
 - Challenge to comply with cybersecurity regulations such as NIS 2 and CSIR, a Dutch derivative of NIS 2

- Solution and Service
- Remote Industrial Operations Services with Security Operations Center as a Service (SOCaaS)**
- 24/7 Threat Detection and Incident Response support for OT infrastructure provided by OT SOCaaS
 - SINEC Security Monitor implemented to identify anomalies in OT networks with Security Operations Center integration
 - Asset discovery and vulnerability management with SINEC Security Monitor.

- Customer benefits
- End-to-end approach for security monitoring and vulnerability management from a single source
 - 24/7 Cybersecurity protection from a service provider with deep OT know-how

Siemens References ID: [43478](#)



24/7

Security monitoring

“We need an OT company who understands Cybersecurity”

Leon Verhaegen, Manager automation, Waterschap Limburg



You want to find out **more?**

[Remote Industrial
Operations Services](#)

[Siemens Contact
Database](#)

[Podcast: Navigating
IT/OT Convergence](#)

[Blog post: The
Urgency of
Cybersecurity](#)

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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/cybersecurity>.

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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