



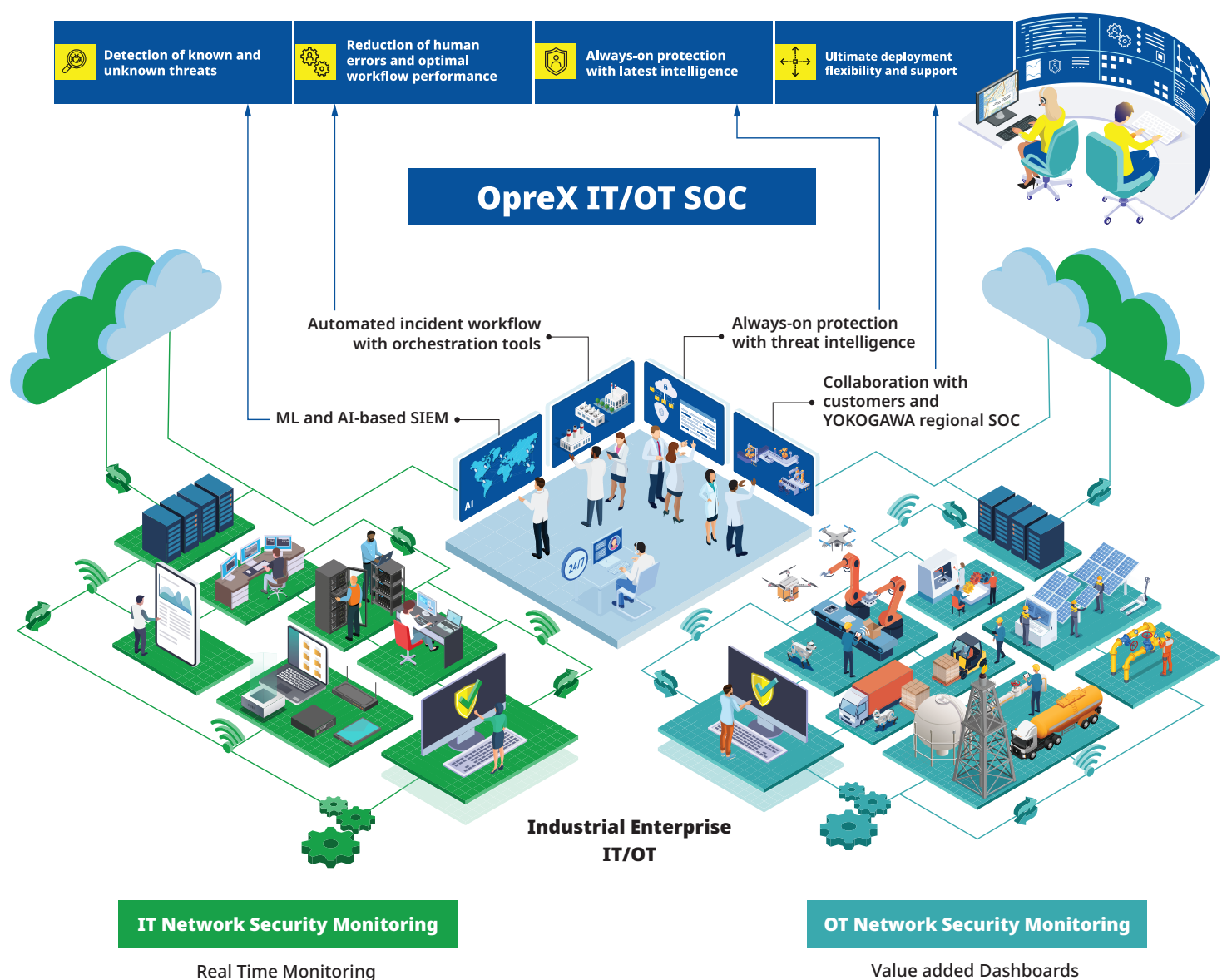
OpreX™ Safety and Security

# OpreX IT/OT Security Operations Center

# IT/OT Security Operations Center

YOKOGAWA's IT/OT Security Operations Center (SOC) helps you monitor and pro-actively protect the availability and integrity of your business-critical OT systems and networks along with the IT environment for a secure operation.

The IT/OT SOC is a centralized function that orchestrates the multiple roles, processes and technologies needed to enable effective and continuous incident and threat detection, analysis, and response. Combining a set of processes, automated workflows, technologies, and a team of certified security experts and R&D specialists, YOKOGAWA's IT/OT SOC provides full visibility of both an enterprise's IT and OT and its security systems and networks.







# Not Your Average SOC

Built specifically for industrial enterprises, YOKOGAWA's IT/OT SOC extends to protect OT systems that are uniquely autonomous, isolated, self-contained, and often running on proprietary software. On top of that, our IT/OT SOC provides a balanced, proactive model, combining IT and OT security centers for a singular, real-time view of your organization's security posture.

Organizations rely on YOKOGAWA's IT/OT SOC for an integrated and consistent approach to security:



## Detect unknown threats with ML and AI-based SIEM

Abnormal activities and sophisticated attacks are quickly flagged and resolved.



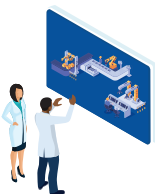
## Automated workflows for a faster response

Tasks are coordinated, executed, and automated to minimize human error for rapid resolution.



## Always-on protection

Log and event information is constantly collected and examined using cyber threat intelligence to detect suspicious activity in real-time.



## Seamless integration with existing infrastructure

Easily integrate YOKOGAWA's IT/OT SOC with existing security and data management systems.

# Solve Your Enterprise's Security Challenges with YOKOGAWA's IT/OT SOC Service

We are in a new age of controlling cybersecurity risks. The way we work is changing. The connectivity is increasing, and the cybersecurity threat landscape is changing with it. In this environment, many organizations are establishing security operations centers (SOCs) to mitigate security risks as they arise, providing a swift response and decisive remediation.

With our IT/OT SOC, you can easily manage challenges unique to industrial enterprises:

- Quickly identify vulnerabilities caused by outdated or unpatched software or operating systems
- Ensure proper network segmentation between IT and OT environments
- Strengthen physical and digital access controls
- Access a digital SOC Playbook for better risk detection and response workflow and processes
- Develop secure configuration management and methodologies





# How YOKOGAWA's IT/OT SOC Works

Our IT/OT SOC provides a purpose-built solution to help monitor DNS/AD services, intrusion detection systems, and factory systems across the IT and OT environments using both cyber threat intelligence (CTI) and machine learning (ML) programs.

YOKOGAWA integrates people, process, and technology with governance, risk management, and compliance, to deliver holistic and sustainable value.



## People

*Strengthening Your Team*

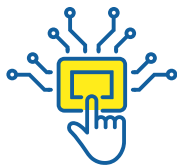
Let our global expertise help you build a better security posture through training and workshops, building internal skills and creating a clear line of delegation and responsibilities.



## Process

*Workflow Designed for Innovation*

Through a ticketing system, YOKOGAWA will craft a tailor-fit workflow, with deep understanding and appreciation of your operational structure, processes, and pain points.



## Technology

*Robust Platform for Mission-Critical Data*

Designed with a single-window display, the IT/OT SOC dashboard serves as your reliable source of truth to monitor alerts and incidents and make faster decisions with real-time plant data.

Our IT/OT SOC's security framework consists of five stages:

### Reactive

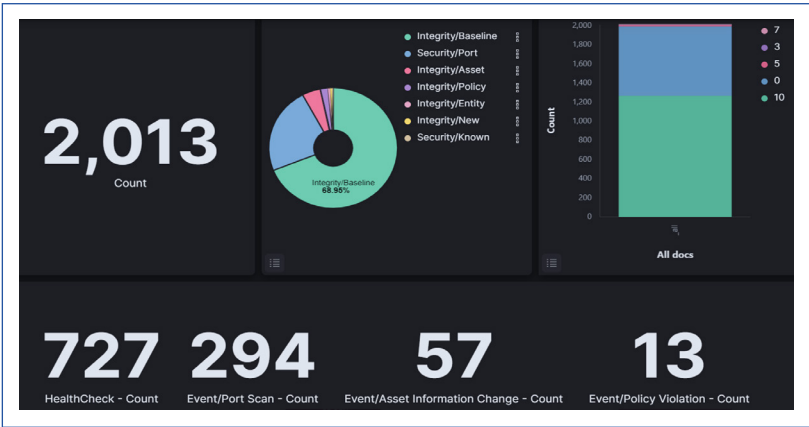
1 Security Perimeter	2 SIEM/Data Lake Migration
<ul style="list-style-type: none"><li>• Prevention planning</li><li>• Patch program</li><li>• Firewall &amp; endpoint security</li><li>• Manual remediation</li></ul>	<ul style="list-style-type: none"><li>• Security state log coverage</li><li>• Log aggregation &amp; retention</li><li>• Use case engineering</li><li>• EDR implementation</li></ul>

### Proactive

3 Advanced Analytics	4 Security Automation	5 Predictive Analytics
<ul style="list-style-type: none"><li>• Threat intel-based searches</li><li>• Machine learning-based analytics</li><li>• Threat hunting</li><li>• Investigations, forensics, and IR</li></ul>	<ul style="list-style-type: none"><li>• SOAR implementation</li><li>• Automated incident handling</li><li>• Integrated tooling</li><li>• Playbooks for attack types</li></ul>	<ul style="list-style-type: none"><li>• Identify likely attack paths</li><li>• Adversarial simulation</li><li>• Insider threat detection</li><li>• End-to-end automation</li></ul>

# A New Level of Security Control

With powerful AI and machine learning, YOKOGAWA's IT/OT SOC presents complex security data from across the organization in a customizable, user-friendly dashboard. The solution is designed and deployed based on the operational requirements of each customer, integrating with key technology components via an open architecture:



1. AI and cloud-based SIEM

2. Cyber threat intelligence (CTI) suite

3. Detection program
4. Network intrusion detection system (NIDS)

5. Incident management

## Enhanced IT/OT Security Services

### IT/OT SOC start-up service

YOKOGAWA selects monitoring logs and event information based on customer cybersecurity risk, offering security risk mitigation measures and various log collection methods, with a flexible approach to meet your needs.

### IT/OT Security Monitoring Service

Receive security incident notifications from device logs, opt for real-time incident reports, and get support and advice in regular meetings for risk mitigation and prevention.

### Incident Response Training

Benefit from security playbooks and SOPs for incident response and risk mitigation.

### Assessment Service

YOKOGAWA security analysts specialize in evaluating vulnerabilities, conducting Penetration Tests, simulating cybersecurity attacks, and offering security recommendations.

### Forensic Service

YOKOGAWA security analysts investigate security incidents, propose containment measures, and perform computer and network forensics.

# Our Security Commitment

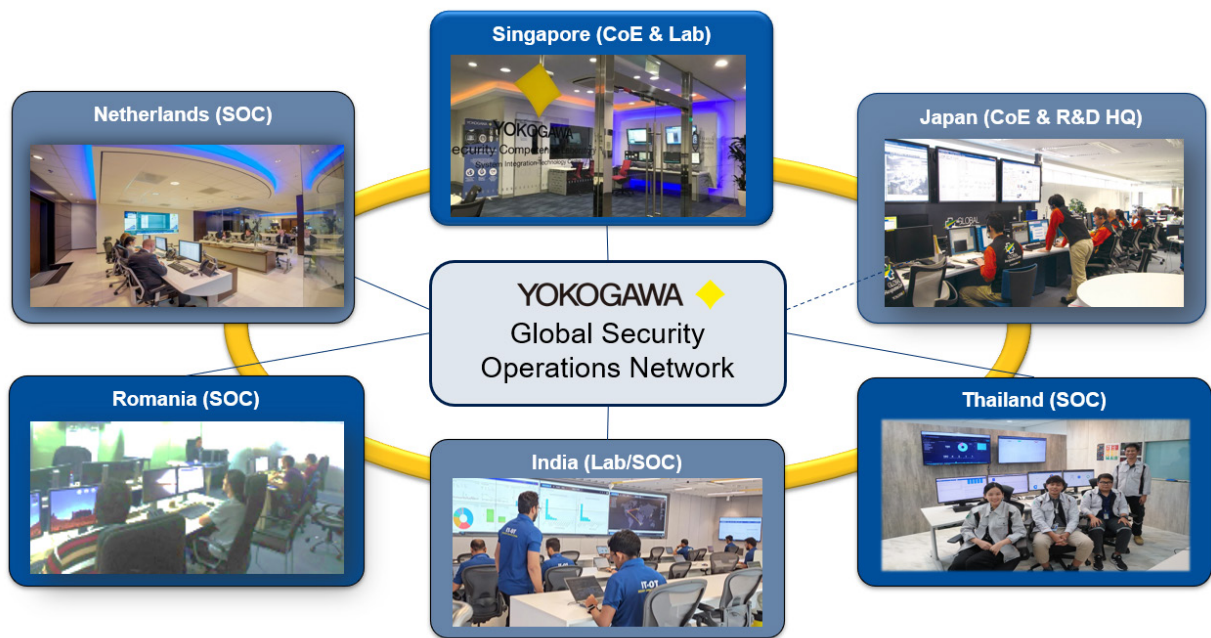
YOKOGAWA is committed to delivering security and safety excellence to our customers. Our engineers are always trained to meet the highest Global Security Standards.



This service is a registration service for the “Information Security Service Standard Examination and Registration System” that is reviewed and registered by the Japan Security Audit Association (JASA), a non-profit organization.

## Global Security Network

YOKOGAWA's network of global Security Operations Centers stretches across the world. They collaborate and share expertise and best practices in their relentless pursuit of robust cybersecurity. Our clients benefit from comprehensive intelligence, better preparedness, swifter response, and improved resilience.



# YOKOGAWA's Security Program

Every enterprise has its own, unique security requirements. That's why our consulting-led starting point is always to help our clients understand and quantify their risk profiles, identify critical data assets, and assess their current security strategies and levels of protection.

IT/OT SOC is a part of YOKOGAWA's Security Program that focuses on delivering resilient cybersecurity services and solutions to reduce cyber risks in the process industries. IT/OT SOC builds on decades of expertise in industrial automation, best practices in cybersecurity architecture design, and plant and enterprise operations knowledge to ensure a safe and secure enterprise.



## Get Started Today

Leveraging over 100 years of deep OT domain experience, YOKOGAWA is a leading technology provider of industrial innovation including security, automation, testing, and measurement.

For more information, visit our website at [www.yokogawa.com/itot-soc](http://www.yokogawa.com/itot-soc)

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