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Risk Advisory 



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# Securing Industry 4.0: Cyber threat management for Operational Technology (OT)

Evolution of Industry 4.0 and connected machinery enables the enterprises to transform the production with increased threat to converged digital infrastructure. Gaining cyber visibility remains a crucial need to effectively mitigate security threats to this hyper converged information technology (IT) and OT infrastructure.

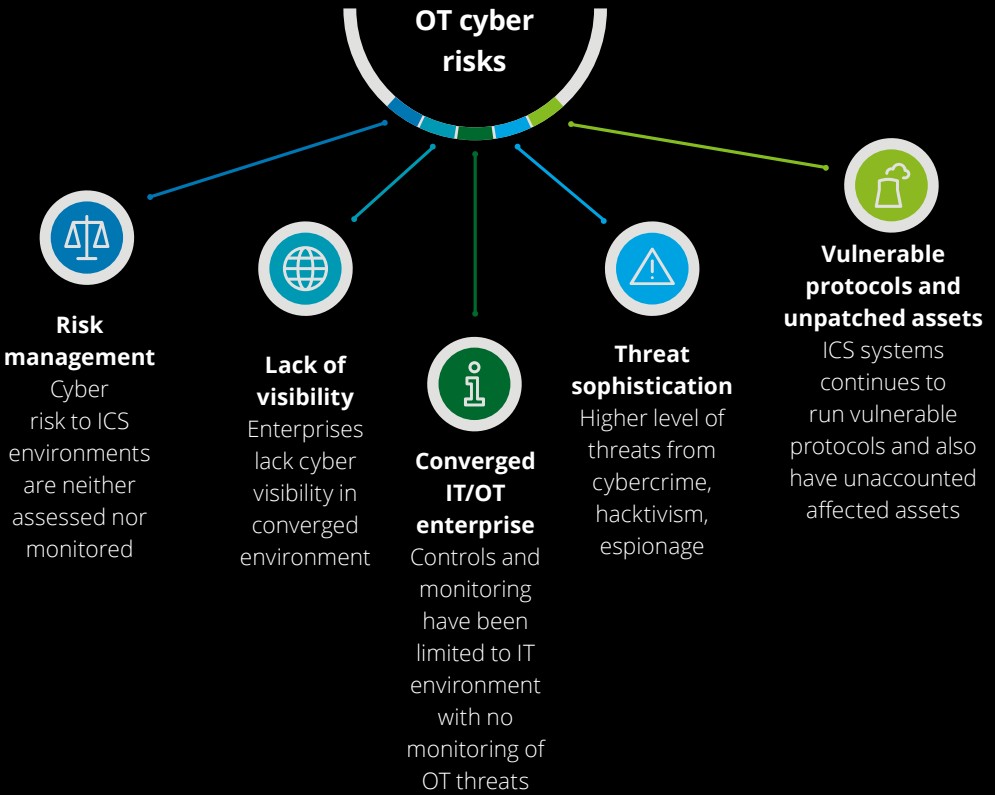
Deloitte's cyber threat management for OT uses a combination of innovative cybersecurity solutions and services to manage cyber risks in Industrial Control Systems environments.

An advanced cyber risk offering provides a more integrated view of an organisation's threat landscape across IT and OT environment in order to gain visibility and deliver better threat management and security operations capabilities. The integrated end-to-end offering leverages Industry leading technology platforms, Deloitte Cyber Intelligence Center (CIC), and our dedicated Industrial Control System (ICS) threat intelligence team. These form a powerful ecosystem that is built to provide strong industrial cyber identification, monitoring, and defense.





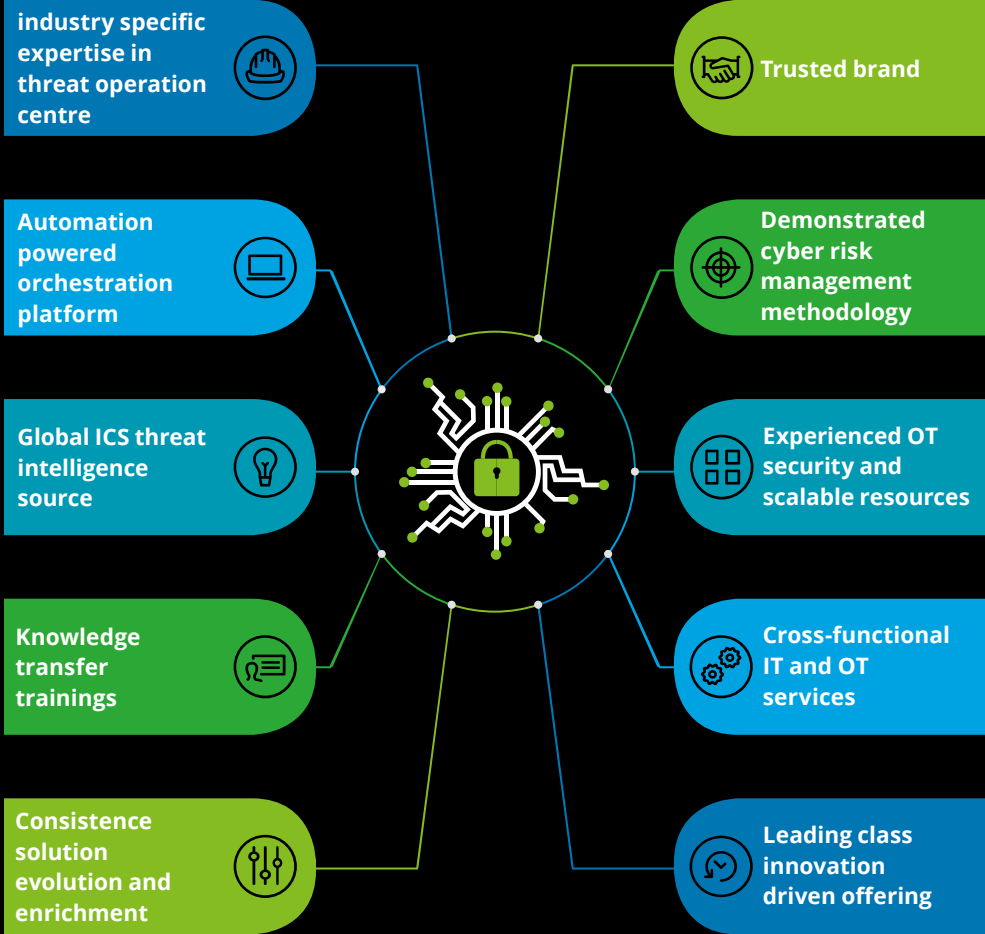
# Operational Technology cyber threat management challenges



## Common vulnerable components

Device software	Firmware	Removable media	Physical access	Database and/or storage	Applications
Remote support/maintenance	Device hardware	Network access/firewall	Operating system	Ports/interface	

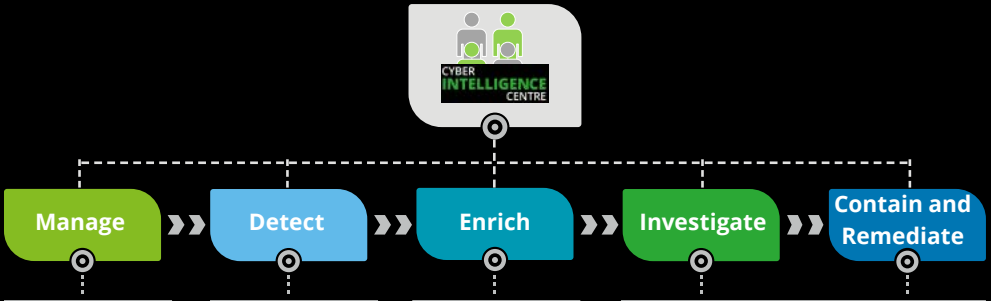
**Deloitte ICS/Supervisory Control and Data Acquisition (SCADA) cyber threat management capabilities: Differentiated through proven 24x7 operations, deep ICS/SCADA threat research, and intelligence powered by CIC**



Deloitte offering for ICS/SCADA cyber threat management enables design, development, and implementation of systems to identify, monitor, record, and analyse security events and incidents of connected products across the ecosystem (IT and ICS/CS or OT), in real-time.

# Our Approach to Cyber Threat Monitoring:

End-to-end accountability from detection to containment



## Integrated platform management and service management

Platform management of Security Information and Event Management (SIEM), vulnerability management, and threat intelligence integrated with OT monitoring solution.

Integrated service portal, Service Delivery Lead (SDL), and Technical Delivery Lead (TDL).

## Proactive hunting

Proactive hunting for advanced threats that evade detection by conventional security controls.

## Cyber monitoring

24x7 monitoring and response to security events across IT and OT.

## Threat intelligence

Correlation with monitoring and IOC-driven inputs to threat hunting.

## Vulnerability management

Enrich and correlate threat visibility with insights on open vulnerabilities.

## End-to-end threat analysis, validation, containment, forensics, and incident response

CIC threat analysts will take end-to-end responsibility from initial detection of alerts to analysis, validation, and containment on the endpoint.

Deloitte enables the incident response process and provides onsite incident response support as required.



# Services Description

Deloitte's OT cyber threat management services helps organisations to respond rapidly to threats, gain greater threat visibility, and use the resources in the areas of greatest impact in managing business risk. The core capabilities include network and endpoint behaviour monitoring, log management, risk analytics, workflow integration, incident response orchestration, and advanced cyber hunting.



Deloitte uses a **technology platform, which helps in managing asset inventory and ICS assessments** in order to passively identify and map networked assets in customers' ICS and surrounding networks.



Deloitte assists with deploying the **Industrial control System platform for continuous monitoring** in the environment. Thus, it enables enhanced asset identification, threat detection, and efficiency through automation.



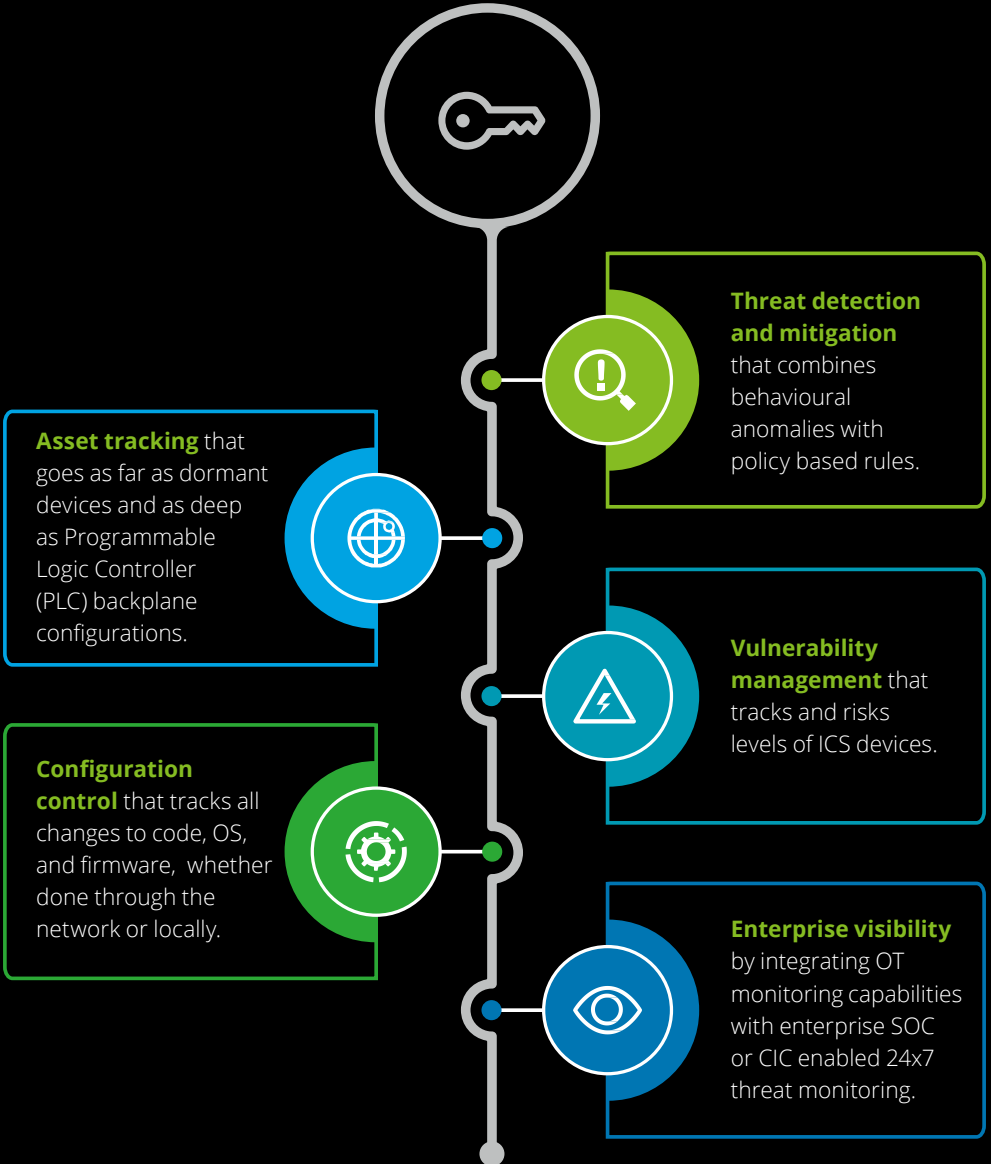
**Deloitte Secure Operations Center (SOC) as a managed service** helps with surges, requirements, and unmanned hours. The Deloitte SOC is also powered by the ICS specialised technology platform for OT environments.



**Deloitte leverages the technology partner's Threat Operation Center for extended ICS knowledge, training, and intelligence** to better support customers' risk evaluations and manage service needs.

The Deloitte CIC offers on-demand access to industry-specific, ICS-focused specialists and intelligence. It also offers formalised and scoped engagements or ad-hoc, remote-access advice, and support.

# Key solution and benefits



# Contacts

**Rohit Mahajan**

President-Risk Advisory  
rmahajan@deloitte.com

**Shree Parthasarathy**

Partner  
sparthasarathy@deloitte.com

**Gaurav Shukla**

Partner  
shuklagaurav@deloitte.com

**Anand Tiwari**

Partner  
anandtiwari@deloitte.com

**Gautam Kapoor**

Partner  
gkapoor@deloitte.com



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