Your Operational Technology. Protected.

Understanding industrial network cybersecurity risks.

TÜVRheinland®
Precisely Right.

RISK ASSESSMENTS ON CYBERSECURITY FOR INDUSTRIAL AND OPERATIONAL TECHNOLOGY (OT)

The number of cybersecurity related incidents in OT and industrial networks has risen across every sector in recent years, there have been well publicized reports of production lines being halted and intellectual property being stolen as a result of cyberattacks. This is impacting the ability for companies to innovate and drive forward into new markets. As digital transformations place gather momentum associated cybersecurity risks increase as more equipment and systems are connected to the internet. Conventional IT security risk models fail to understand the specialized nature of production and control systems as they can be markedly different to those used in an office or commercial environment.

The worlds of functional safety and cybersecurity are now inextricably linked in modern plant and process control systems. Functional safety is the defense against random and systematic technical failure for the protection of life and environment. Cybersecurity, on the other hand, is the defense against negligent and willful actions protecting devices and facilities. A plant that meets a particular functional safety design requirement could be compromised by a cyberattack, impacting its safety integrity level.

HOW ARE INDUSTRIAL AND OPERATIONAL TECHNOLOGY RISKS ASSESSED

Our team will engage with you in an effective way to help you understand how mature your OT cybersecurity posture is. Engagements are adaptable using either IEC 62443 or NIST CSF industry standards depending on what is best for your situation.

An assessment can be undertaken in a relatively short period of time to give quick feedback to the business so that any remedial steps can be started as soon as possible. Our experts take a collaborative workshop approach enabling findings to be discussed in a friendly, informed way with internal teams to maximize the learning opportunity and ensure that key parts of the business and operations are engaged in the process.

WHY ASSESS YOUR INDUSTRIAL AND OPERATIONAL TECHNOLOGY CYBERSECURITY RISKS?

- There is a regulatory or legal requirement to understand this risk as you operate in a safety critical or hazardous industry.
- Business executives are concerned how cybersecurity issues can impact their business.
- Investors and shareholders need reassuring that systems are robust and capable of managing likely cybersecurity issues and that new investments will be protected.
- Customers are demanding that their intellectual property and process information is protected on your network.

WORKING WITH TÜV RHEINLAND

The TÜV Rheinland 145+ year heritage gives us a deep understanding of the markets we serve, with unmatched depth of experience solving complex safety, security, data privacy, and infrastructure challenges.

INDUSTRIAL SECURITY RISK ASSESSMENTS Do you understand your operational technology and industrial security risk?	**OT ARCHITECTURE REVIEW** Is your industrial technology design and architecture secure and compliant with cybersecurity standards and regulations?	**OT SYSTEMS PENETRATION TESTING** Do you need to undertake operational technology vulnerability assessments and penetration tests?	**OT SERVICES FOR THE NUCLEAR INDUSTRY** Do you understand your nuclear facility operational technology and industrial security risk?
OT POLICY, PROCESS AND PROCEDURE REVIEW Are your policies, processes and procedures keeping up with the unique cybersecurity and regulatory requirements of industrial and operational technology systems?	**OT SYSTEMS INCIDENT RESPONSE AND RECOVERY** Do you have existing operational technology incident response and recovery plans in place?	**OT SYSTEMS SECURITY MONITORING** Do you know what is happening on your OT network and systems?	**OT SERVICES FOR THE RAIL AND TRANSIT INDUSTRY** Do you understand your overall rail and transit systems operational technology and industrial security risk?

Overview industrial security service portfolio

TÜV Rheinland
ICT & Business Solutions
otsecurity@tuv.com

www.tuv.com/en/industrial-sec

TÜVRheinland®
Precisely Right.