



Choose certainty.  
Add value.

## Security Check

Find the weak spots in your Industrial IT Security and Critical Infrastructures.

### Your challenges

Manufacturers and production facility operators face a highly complex industrial IT security environment that is constantly changing. Beyond managing multiple vendors, they need to comply with a growing number of security standards. This dynamic landscape regularly gives rise to new threats and vulnerabilities.

### What is the Security Check?

TÜV SÜD's Security Check is a rapid and reliable way to identify vulnerabilities by analysing your entire Industrial Control System (ICS). It is based on our extensive experience and best practices according to IEC 62443, IEC 62351, ISO/IEC 27001 and DIN VDE V 0831-10X.

### Why is the Security Check important for your business?

During the Security Check, our experts analyse the security of your equipment, devices and system. This assists you in understanding critical interfaces

(e.g. between office and industrial IT within critical infrastructures) and determining the actual security level of your ICS. All identified vulnerabilities are assessed and documented. We also identify non-conformities with relevant security standards and provide a prioritised action plan.

### How do you prepare for the Security Check?

The Security Check requires you to provide all relevant IT security documents and identify all security process stakeholders.

### How can we help you?

Our experts support you in maintaining productivity and competitiveness by improving your security against attacks, thefts of intellectual properties and industrial espionage. We identify vulnerabilities in your production plant's ICS, familiarise you with IT security objectives and risks, and recommend important protection measures that should be implemented.

## FOUR STEPS TOWARDS INDUSTRIAL IT SECURITY

Set goal, scale and definition of the object of investigation.  
Supply relevant documents.

Examine documents and notes.  
Prepare on-site check (audit plan).

Conduct interviews and workshops.  
Random technical checks.  
Review identified security vulnerabilities in  
a concluding interview.

Describe and evaluate the identified security.  
Recommend countermeasures.  
Compile and review the assessment report including a  
management summary.

## Our Security Check services

### ■ Analysis of equipment/devices/whole ICS

We identify the current status of the system including the logical network plan, all communication lines, all assets and their dependencies. The structure analysis also covers processes such as change management and incident handling.

### ■ Threat analysis

TÜV SÜD identifies all relevant threats according to a threat catalogue that is adjusted to the production plant's use cases and real scenarios.

### ■ Identification of vulnerabilities

Based on the threat catalogue, we find essential vulnerabilities at all levels, from the application down to the components including communication lines. We also identify process weaknesses.

### ■ Assessment of vulnerabilities/risks

Our experts work with your business and IT departments to identify and assess the severity of vulnerabilities, damages and risks. We also perform technical checks on IT components. Upon request, we will conduct a conformity check against internal security documents or relevant standards such as IEC 62443 or DIN VDE V 0831-10X.

### ■ Comprehensive action plan and prioritised measures

We provide a prioritised list of measures for you to mitigate the vulnerabilities, risks and non-conformities identified by the Security Check.

## Your business benefits

- **Optimise budgets** – with a prioritised list of measures that helps you focus your resources on overcoming identified vulnerabilities.
- **Save time** – with an effective, efficient, customisable solution that has been proven in many projects.
- **Minimise risk** – by clearly identifying threats and obtaining a comprehensive action plan that ensures the mitigation and traceability of risks.
- **Achieve transparency** – in order to trace identified risks and implement risk mitigation strategies.

## Why choose TÜV SÜD?

TÜV SÜD provides a holistic approach to safety and security. Our long-term experience with industrial environments, expertise in industrial IT security and extensive process knowledge make us uniquely suited to evaluate our customers' IT systems. As a one-stop solutions provider, we offer guidance and comprehensive services throughout the value chain.

We work closely with many industry partners on various topics such as industrial IT security and functional safety. Our experts actively participate in international standardisation committees, giving us valuable insights into future regulatory developments.

## Choose certainty. Add value.

TÜV SÜD is a premium quality, safety and sustainability solutions provider that specialises in testing, inspection, auditing, certification, training and knowledge services. Represented in over 800 locations worldwide, we hold accreditations in Europe, the Americas, the Middle East, Asia and Africa. By delivering objective solutions to our customers, we add tangible value to businesses, consumers and the environment.

## Related services

TÜV SÜD provides the following related services:

- Industrial IT Security – Risk Analysis
- Penetration testing
- Training: IT security for networked industrial IT systems