TÜV SÜD

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 identfied 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.

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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