



Choose certainty.  
Add value.

## IEC 62443 Certification

Security certification for Industrial  
Automation and Control Systems.

### Your challenges

The growing prevalence of standardised hardware and software now being used in heavily networked automation and control infrastructures has led to a rapidly increasing potential for cyber threats and risks. Until recently, no internationally valid standards existed for IT security certification of Industrial Automation and Control Systems (IACS). The IEC 62443 family of standards now provides a basis for such cyber security certification.

### What services does TÜV SÜD provide?

TÜV SÜD is one of the first providers offering IACS cyber security certifications according to IEC 62443. The product certification is based on the IEC 62443-4-1 standard whereby the IT security functions of the products are assessed according to IEC 62443-3-3. For system integrators, the certification is carried out according to IEC 62443-2-4 and the IT security functions are also evaluated according to IEC 62443-3-3.

### Why are these services important for your business?

The increasing digitisation and integration of production lines and critical infrastructures is leading to a dramatic rise in potential cyber security risks. Asset owners and operators need assurance regarding the security of their IT infrastructure, services and relevant processes.

### How can we help you?

Having developed a security certification scheme for IACS on the basis of IEC 62443, TÜV SÜD has gained deep insight into IACS and is accredited according to IEC 62443 by the German Accreditation Body (DAkkS). We also possess in-depth knowledge on the IEC 62443 standard family through our participation in international and national committees working on the IEC 62443 standard. In addition, we have built up an Industrial IT Security Lab, which allows us to perform penetration and communication robustness testing of devices for IACS.

## FOUR STEPS TOWARDS CERTIFICATION

Definition of the scope for certification and supplement of relevant documents.

Examination of documents and notes, and preparation of on-site check (audit plan).

Conducting interviews, procedural assessments and technical checks. Review of identified security findings in a concluding interview.

Compilation of the assessment report including a management summary. Proof of report by the certification body of TÜV SÜD.

### Our security certification services for IACS

We provide a conformity assessment of the various processes that have been applied during development and integration, and assess the implemented IT security functions. Once a service or product has achieved certification, we support you with the issuance of appropriate certificates and test marks.

#### ▪ **Certification for system integrators**

The certification scheme for system integrators is based on IEC 62443-2-4 and IEC 62443-3-3.

#### ▪ **Certification for manufacturers**

The certification scheme for manufacturers is based on IEC 62443-4-1 and IEC 62443-3-3.

### Your business benefits

- **Save time and money** – with an effective and efficient certification scheme.
- **Minimise risk** – by clearly identifying threats that can arise from infrastructure components and systems.
- **Gain a competitive edge** – by winning customer confidence with security-certified products and services, provided by TÜV SÜD, a renowned third-party solutions provider.

- **Enjoy global support** – through a certificate that is recognised worldwide.

### Why choose TÜV SÜD?

TÜV SÜD combines expertise in industrial IT security with process knowledge in a wide range of industries and critical infrastructures. Our highly trained experts have extensive experience of industrial environments and can draw upon their knowledge to determine which industry-specific risks are relevant to each customer. The methodology we utilise for risk analysis, which has been field-tested and proven in many projects, combines safety and security for our customers.

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. 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:

- Cyber risk analysis
- Security check
- Penetration and communication robustness testing
- Industrial IT security training on the basis of IEC 62443 and ISO/IEC 27001/27019 especially for critical infrastructures