

The ISA Secure Certifications

for Automation and
Control System Cybersecurity



Trusted IEC 62443 Certifications

The ISASecure IEC 62443 certification scheme ensures end-users are included in all certification specification development processes—providing unsurpassed trust in the ISASecure brand.

- ✓ Automation technology
- ✓ Control systems
- ✓ IoT devices
- ✓ Components

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THE CERTIFICATIONS



Component Security Assurance Certification

IEC 62443-4-2 covers 4 component types. These are:

1. embedded devices
2. network devices
3. applications
4. host devices

Tests to ensure components are free from known vulnerabilities and are robust against network attacks.

- ✓ **Certifies** component security capabilities
- ✓ **Certifies** suppliers' development processes to IEC 62443-4-1



System Security Assurance Certification

Tests to ensure systems are free from known vulnerabilities and are robust against network attacks.

- ✓ **Certifies** systems of integrated components to IEC 62443-3-3
- ✓ **Certifies** components to IEC 62443-4-2
- ✓ **Certifies** suppliers' development processes to IEC 62443-4-1



System Development Lifecycle Assurance Certification

Audits product development organizations' processes, promoting the security development lifecycle best practices that improve the quality of security in products and systems.

- ✓ **Certifies** suppliers' development processes to IEC 62443-4-1

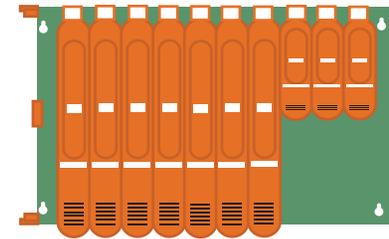
The IEC 62443-based component certification was introduced to the automation and control systems market in 2010.

Today's component certification reflects 9 years of certification experience and real-world feedback.



CSA CERTIFICATION

Component Security Assurance Certification



Three Certification Dimensions:

- ✓ **Assess** and confirm that components meet IEC 62443-4-2
- ✓ **Audit** and confirm that suppliers' development processes meet IEC 62443-4-1
- ✓ The component is **tested** in compliance and IEC 62443-4-1

Component Certification provides end-users assurances that:

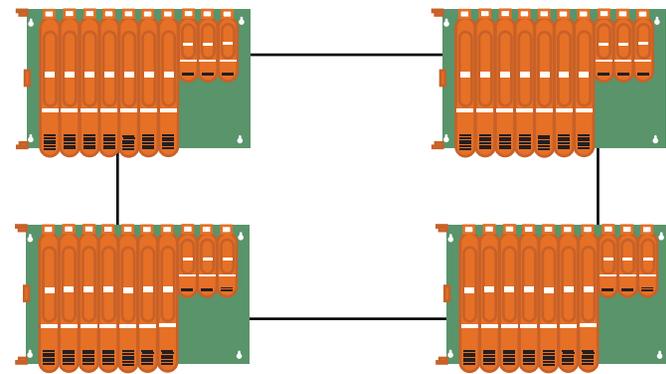
- ✓ Products are free from known vulnerabilities
- ✓ Products are robust against network attacks
- ✓ The product security capability level is independently confirmed based upon the requirements in IEC 62443-4-2 standards
- ✓ Supplier development organizations employ IEC 62443-4-1 security lifecycle practices (which ensure security capabilities are maintained through the life of the product)

Introduced in 2014, the IEC 62443-based SSA Certification was the world's first system-level cybersecurity certification for the automation and control systems market.



SSA CERTIFICATION

System Security Assurance Certification



Four Certification Dimensions:

- ✓ **Assess** and confirm that systems meet IEC 62443-3-3
- ✓ **Audit** and confirm that suppliers' development processes meet IEC 62443-4-1
- ✓ Product **testing** meets IEC 62443-4-1
- ✓ **Meet** all component certification requirements

SSA Certification provides end-users assurances that:

- ✓ Systems are free from known vulnerabilities
- ✓ Systems are robust against network attacks
- ✓ Supplier development organizations employ IEC 62443-4-1 security lifecycle practices (which ensure security capabilities are maintained through the life of the product)
- ✓ Component devices in the control system meets component certification requirements

Download free copies of the SSA
Certification specifications:
www.isasecure.org/ssa-specs

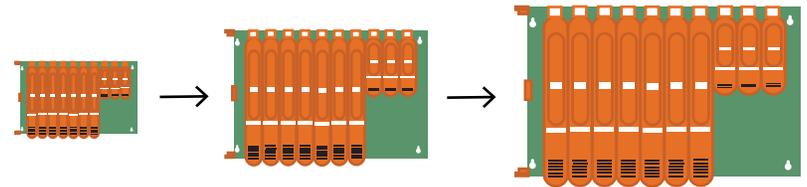
Originally based on Microsoft SDL and updated to IEC 62443-4-1 in 2017, the ISASecure SLDA Certification established the foundation for today's standardized control systems security lifecycle practices.

The ISASecure SDLA was the first security lifecycle certification to be offered for control systems and operational technology.



SDLA CERTIFICATION

System Development Lifecycle Assurance Certification



One Certification Dimension:

- ✓ **Audit** and confirm the supplier has institutionalized a formal security development lifecycle methodology that meets requirements in IEC 62443-4-1

SDLA Certification provides end-users assurances that:

- ✓ All eight security lifecycle practice areas of IEC 62443-4-1 have been properly implemented
- ✓ Systems and components in the scope of the certification will maintain their security capabilities over their product life
- ✓ Security capabilities for products in the scope of the certification will improve over time

Download free copies of the SDLA Certification specifications:
www.isasecure.org/sdla-specs



Trusted

World's first IEC 62443 control systems cybersecurity certification program, established in 2007 and certifying products since 2011.

Global Acceptance

ISASecure's ISO/IEC 17065 accredited certification bodies are IAF and ILAC signatories, ensuring that certifications are always credible, consistent, fair, and globally recognizable.

Transparent

Certification requirements are available for immediate download, so end-users know exactly what is included in the certification and what is not.

Balanced

Active engagement from a balance of ISASecure stakeholder groups—including end-users, product suppliers, certification bodies, and test tool suppliers—set the industry benchmark for control systems security certifications and makes ISASecure a superior certification offering.



ISASecure Chartered Laboratories

ISASecure certification programs are supported by certification bodies (CBs) accredited to ISO/IEC 17065 and ISO/IEC 17025 lab operations by international ISO/IEC 17011 accreditation bodies.

The ISASecure CBs are:

- CSA Group
- CSSC
- exida
- TÜV Rheinland
- TÜV SÜD
- DNV-GL
- Trust CB
- Applied Risk

Accreditation by an ISO/IEC 17011 accrediting authority ensures the ISASecure certification process is open, fair, credible, and robust.

ISO 17065 accredited certification bodies ensure global recognition and acceptance of the ISASecure certifications, and enables global scalability of the ISASecure program



You have done the hard work
of securing your products.

Now gain recognition for your company
and products with ISASecure.

To learn how to get ISASecure certified, visit:

www.isasecure.org/ISASecure-Certified



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