# CYBERSECURITY
## CERTIFICATION SERVICES

## TESTING AND CERTIFICATION OF INDUSTRIAL CONTROL SYSTEMS

### TEST. CERTIFY. SAFEGUARD.

Industry 4.0 transformation involves adoption of advanced manufacturing technologies including the increased connectivity of industrial control systems (ICS) and components, such as those found in building automation technologies and complex manufacturing systems. Connectivity of ICS comes with increased exposure to cybersecurity threats that can result in costly physical and intellectual property loss.

FM Approvals' independent cybersecurity certification evaluates whether or not a manufacturer's ICS and components have designed-in security, have passed vulnerability identification testing, and are robust against cybersecurity attacks at the designated security level. Systems and components marked FM APPROVED for cybersecurity have been objectively tested in our Cybersecurity Laboratory and certified to meet consensus-based international standards defined by ISA/IEC 62443;

- Part 4-1: Security Development Lifecycle Assurance (SDLA)
- Part 4-2: Component Security Assurance (CSA)
- Part 3-3: System Security Assurance (SSA)

The FM APPROVED certification mark demonstrates robustness against cybersecurity attacks to differentiate products from those of competitors while meeting end user and jurisdictional requirements.
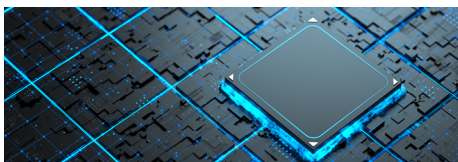
**International Leader in Third-Party Testing and Certification** – Manufacturers of products marked FM APPROVED for cybersecurity benefit from the scientific research, loss prevention philosophy, and confidence associated with the certification.

**ISASecure®**

**ISASecure® Accredited Cybersecurity Laboratory** – Operated by FM Approvals' industrial control cybersecurity experts with hosted servers and test stations configured to efficiently evaluate multiple ICS products simultaneously to evaluate the manufacturers' conformance to ISA/IEC 62443 standards.

**Access to Global Markets** – Manufacturers and users of FM Approved products trust the independent perspective of FM Approvals with over a century of experience in testing and certifying products that meet rigorous loss prevention standards.

**Going Above and Beyond** – FM Approvals' cybersecurity certification services go beyond evaluating conformance to ISA/IEC 62443 standards. FM Approvals' capabilities include vulnerability testing for specific types of operational technology, asset discovery and mapping, network traffic analysis, malware detection, and more.

**FM Approvals®**

*Member of the FM Global Group*

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**FM Diamond** – All systems and components that successfully attain FM Approvals' ISA/IEC 62443 certification will bear the FM Diamond, a specific security level designation, and be listed in the Approval Guide.



**Secure Development Lifecycle Assurance (SDLA) Certification –** Applicable to the development lifecycle processes of manufacturers, this certification evaluates the specific documented version of the manufacturer's processes to assess whether they meet the ISA/IEC 62443 requirements.

**Accelerated SDLA Certification –** Hands-on guidance, customized tools, and regular reviews accelerate the manufacturer's SDLA certification process to achieve the required maturity level.

**Comprehensive Assessment** – Covering all three ISASecure® certifications: Security Development Lifecycle Assurance (SDLA), Component Security Assurance, and System Security Assurance. These assessments can be combined with Explosion Safety and Safety Integrity Level assessments to save time and reduce cost.

**Are Certified Products Really Secure?** The SDLA ensures security-by-design methodology, incident response plans, communication plans, and security guidelines all enable manufacturers to meet their obligation to mitigate new vulnerabilities. Certified products inherently reduce the effects of an ICS cybersecurity attack.

**Approval Guide** – FM Approved SDLAs, systems and components will be listed in the Approval Guide - our exclusive online resource that provides engineers and designers with access to vendor information. In addition, the products will be listed on the ISASecure® website.

**Confident Risk Management** – FM Approved systems and components have security features commensurate with the expected level of risk throughout the product's lifecycle.