

Endress+Hauser meets highest cyber security standard

IEC 62443-4-1 certification demonstrates product development in line with highest security requirements

With its certification, TÜV Rheinland has confirmed that the product development processes and product life cycles at Endress+Hauser meet the IEC 62443-4-1 international industry standard for cyber security. By adhering to this certified guideline, the company ensures that its products contribute to the reliability and security of its customers' plants.

Measurement instruments and components from Endress+Hauser make certain that numerous process engineering systems around the world operate securely and reliably. For industrial plants and Industrial Internet of Things (IIoT) environments, cybersecurity is becoming a growing focus. With networking and connectivity becoming increasingly prevalent, it's imperative that companies protect their production systems and automation technology from unauthorized access.

To optimally protect its customers' production systems, Endress+Hauser lays the foundation for secure operation as early as the planning and development phases of its products and services. In March, TÜV Rheinland, one of the world's leading testing service providers, issued a certification in line with the IEC 62443-4-1 norm confirming that this product development process, as well as the product life cycle, meets the highest international standards.

"This is a testament to the quality of our work, which we are extremely pleased about," says Mirko Brcic, Product Security Officer at Endress+Hauser. "In light of ongoing technical advances – you only have to think about the advanced physical layer or IIoT products – for us it's very important that we not only accelerate digitalization but continue to safeguard the security of our instruments and software at the same pace."

Stringent requirements for automation technology

By aligning the processes with IEC 62443-4-1, among other things Endress+Hauser ensures that products are developed from the beginning with all security requirements in mind and that the components it delivers pose no risks. Added to that are other measures such as code analyses and reviews, penetration tests and the installation of security updates. A total of eight different areas define what a secure product development process should look like:

- Security management
- Security requirements specification
- Secure design guidelines
- Secure implementation guidelines
- Verification and validation of security properties
- Vulnerabilities management
- Creation and publication of security updates
- Security product documentation

Strong capacity for innovation

“With IEC 62443-4-1, a proven certification standard in industrial automation, we ensure that all employees involved in these internal processes are working at the same level of security. That allows us to lay the cornerstone to be able to offer high-quality measurement, automation and IIoT products for connected production environments, now and in the future,” adds Mirko Brcic.

Endress+Hauser has a long tradition of investing in innovation. Last year the IETF recommended for standardization the innovative CPace security technology developed by Endress+Hauser, which provides password-protected instrument access. Patent applications are regularly at high levels as well. The Group currently boasts a portfolio of 8,900 patents and patent filings.



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EH_Brcic_Mirko.jpg

Mirko Brcic, Product Security Officer at Endress+Hauser.

The Endress+Hauser Group

Endress+Hauser is a global leader in measurement and automation technology for process and laboratory applications. The family company, headquartered in Reinach, Switzerland, achieved net sales of approximately 2.6 billion euros in 2020 with a total workforce of more than 14,000.

Endress+Hauser devices, solutions and services are at home in many industries. Customers thus use them to gain valuable knowledge from their applications. This enables them to improve their products, work economically and at the same time protect people and the environment.

Endress+Hauser is a reliable partner worldwide. Its own sales companies in 50 countries as well as representatives in another 70 countries ensure competent support. Production facilities on four continents manufacture quickly and flexibly to the highest quality standards.

Endress+Hauser was founded in 1953 by Georg H Endress and Ludwig Hauser. Ever since, the company has been pushing ahead with the development and use of innovative technologies, now helping to shape the industry's digital transformation. 8,900 patents and applications protect the Group's intellectual property.

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