TECNALIA, the first national entity accredited for cybersecurity testing at all levels

The research and technological development centre has obtained ENAC (Spanish National Accreditation Body) accreditation to certify the industry at the highest level of security in accordance with the IEC 62443-4-2 international standard.

30 June 2025. The TECNALIA research and technological development centre has become the first national entity accredited by ENAC (Spanish National Accreditation Body) to carry out cybersecurity tests at all security levels in accordance with the IEC 62443-4-2 international standard. This standard, considered one of the pillars in the protection of industrial automation and control systems, establishes demanding technical cybersecurity requirements for the components of such systems. The accreditation recognises the laboratory's technical competence to assess these products against increasingly sophisticated threats.

Therefore, TECNALIA has obtained accreditation for testing at the four levels of security set out in the standard, which enables it to cover environments with greater requirements in protection against targeted threats, and positions the laboratory as a national and international benchmark in the assessment of critical industrial components.

IEC 62443-4-2 provides a detailed and scalable framework for establishing cybersecurity requirements for industrial components, such as embedded devices, application software and network devices, and protecting them against a wide range of threats. These requirements are structured into four Levels of Security, from accidental threats to protecting against sophisticated attacks by adversaries with significant resources. Each successive level increases the rigour of the technical measures required, such as system bastioning, role-based access control, secure event logging, strong encryption and integrity and authenticity validation.

"This accreditation places us at the European forefront of industrial cybersecurity assessment. It is a guarantee of reliability for manufacturers, integrators and operators of critical infrastructures. It is undoubtedly a major advance to foster more secure industrial environments, both nationally and internationally", said Marta Castro, Director of Digital Labs, and head of TECNALIA's Cybersecurity Assessment Laboratory. This development is key to foster more secure industrial environments, both nationally and internationally, and offers companies a certification pathway aligned with global market requirements and regulations, such as the European Cyber Resilience Act (CRA).

About TECNALIA

TECNALIA is the largest applied research and technological development centre in Spain, a European benchmark and member of the Basque Research and Technology Alliance. TECNALIA works with companies and institutions to improve their competitiveness, people's quality of life and achieve sustainable growth, thanks to a team of more than 1,500 people committed to building a better world through technological research and innovation. This is why TECNALIA's research has a real impact on society and generates benefits in the form of quality of life and progress. Its main areas of action are: smart manufacturing, digital transformation, energy transition, sustainable mobility, health and food, urban ecosystem and circular economy.

In the latest brand awareness and positioning study carried out by the European Research Survey (ERS) in 2022, TECNALIA tops the list regarding R&D and Innovation brand awareness.

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