

ETSI EN 303 645 Evaluation, the standard for IoT consumer cybersecurity

Applus+ Laboratories is an ISO/IEC 17025 accredited laboratory and provides testing services for IoT consumer devices following ETSI EN 303 645, a global benchmark in the IoT industry.

The introduction of wireless connectivity in consumer electronics has opened a wide landscape of new features and new applications, from smart watches that monitor health data to biometric identification for door access, to contactless payment using wearables. The transmission of highly sensitive personal data, both over the air and through the internet, has raised the stakes on potential cyber risks on electronic apparel.

What is ETSI EN 303 645?

This ETSI standard provides a baseline security to help manufacturers prove that their products meet a certain level of cybersecurity resilience to boost consumer trust and avoid reputational damage.

Our lab is accredited to evaluate ETSI EN 303 645 compliance and can guide you through the conformity assessment process defined in the ETSI TS 103 701.

This process involves:

- The supplier organization (SO): the entity that is responsible for a significant part of the supply chain of the device under test
- A test laboratory (TL): entity such as an independent testing organization, a user organization, or an identifiable part of a SO that carries out the conformance assessment of the device under test. Although the three options meet ETSI standard provisions, 3rd party labs provide an extra layer of confidence as they are independent and accredited.

ETSI EN 303 645: A baseline to meet future cybersecurity regulations worldwide

Although the EU has finally develop the specific standard EN 18031 for the RED directive, the ETSI EN 303 645 standard remains one of the main global references for consumer IoT device cybersecurity. Countries such as Singapore, Finland, Vietnam, Australia, India, and the United Kingdom have adopted the standard as a direct basis for their national IoT certification schemes or regulations.



While each regulation may have its own technical specificities and timeline, adopting ETSI EN 303 645 facilitates access to international markets, harmonizes global security requirements, and ensures manufacturers are well positioned to meet future mandatory requirements worldwide.

Benefits of evaluating your IoT solution with Applus+ Laboratories

We support IoT developers with testing and certification solutions to ensure an adequate level of security of their solutions, adapted to their business goals and market requirements.

- We can offer a wide scope of [certification solutions for IoT](#), including [Common Criteria Certification](#), [PSA Certification](#), [SESIP Certification](#), [EN 18031](#), [IEC 62443 certification](#), or an ad-hoc evaluation from our experts.
- We can help you to decide what certification options fit better with your requirements and how to take advantage of the synergies between them.