

PARTNERS



FUNDING



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OBJECTIVES

CERTIFY has SMART (Specific, Measurable, Achievable, Realistic and Timely) specific objectives:

- Cybersecurity awareness for IoT-enabled environments through a multi-stakeholder sharing of threats and mitigations.
- Secure reconfiguration and maintenance of customizable embedded devices by means of hardware primitives and services.
- Perform security operational management based on bootstrapping and monitoring of attacks and malicious behaviors.
- Run time security compliance and continuous certification methodology via objective metrics.
- Foster knowledge delivery via wide dissemination, capacity building and supporting activities. Build a robust exploitation plan to boost ROI by optimizing current and future EU cybersecurity capabilities.
- Industrial validation of the CERTIFY framework in IoT ecosystems.



PROJECT COORDINATOR

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PILOTS

Pilot I:

Secure Management of Devices Enabling an Intelligent and Connected Aircraft Cabin
Pilot Partners: Collins (lead), TUp, ST-I

Pilot II: Smart Micro-Factories

Pilot Partners: DWG (lead), UMU

Pilot III: Tracking and monitoring of artworks

Pilot Partners: ST-I (lead), UZH, MOD



WHAT IS CERTIFY?

CERTIFY defines a methodological, technological, and organizational approach towards IoT security lifecycle management based on (i) security by design support, (ii) continuous security assessment and monitoring, (iii) timely detection, mitigation, and reconfiguration, (iv) secure IoT Over-The-Air (OTA) updating, and (v) continuous security information sharing. CERTIFY is a consortium research project with 12 partners including universities, SMEs and big organizations from 8 countries. CERTIFY provides mechanisms for IoT stakeholders to achieve high-level security.



AMBITIONS

The main contributions of CERTIFY are as follows, going beyond the state of the art:

- Novel framework to manage security throughout the lifecycle of the IoT device.
- Certification & security evaluation.
- Enhanced open hardware security.
- Secure integration of IoT devices.
- Behavioural profile.
- Security monitoring & detection.
- Information sharing and upgrading.



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