NEW SOLUTIONS FOR THE SECURITY AND PRIVACY OF IOT DEVICES AND SYSTEMS

This month, leading experts from eight European countries have launched a project that will develop and make available the next generation framework for the Internet of Things (IoT) devices and systems used by consumers, businesses, and governments. This framework aims to bring enhanced trust, security and privacy for the IoT devices and systems used worldwide.

The IoT refers to the billions of physical devices around the world that are now connected to the internet, all collecting and sharing data. Such devices include smartphones and wearables, smart home devices, as well as medical or industrial systems. With over 75.44 billion connected devices expected by 2025, the need for secure solutions for IoT systems is more pressing than ever. Attacks are becoming more sophisticated, requiring reinforced cybersecurity competencies, mechanisms for detection and mitigation of attacks as well as new solutions to increase data privacy.

ARCADIAN-IoT, the acronym for *Autonomous trust, security and privacy management framework for IoT*, is an EC-funded project which aims to develop innovative and advanced security and privacy management mechanisms and technologies that can seamlessly be integrated in a variety of contexts and applications. This novel approach will have a positive impact on companies and individuals that develop, deploy, transform and/or use IoT devices. For example, it will impact the construction and use of medical devices, by improving the conditions of monitoring and follow-up of patients in the active treatment process. The project will also foster innovative solutions in the field of emergency and vigilance systems using drones and IoT and monitoring of the grid infrastructures.

"ARCADIAN-IoT will develop, implement and validate innovative security and privacy features and tools, while maintaining the balance between the devices' functionalities, performance, usability and cost, an equilibrium of vital importance for companies, especially SMEs", said Sérgio Figueiredo, from Instituto Pedro Nunes and project coordinator of ARCADIAN-IoT.

ARCADIAN-IoT has a clear strategy to build on and advance technologies such as Blockchain, Chained Encryption, Decentralized IDs, eSIM, Biometrics or Federated AI and each ARCADIAN-IoT partner has a proven track-record of excellent competences, which will be dedicated to the project success.

By developing a set of innovative tools and processes that foster security and privacy of IoT devices, ARCADIAN-IoT aims to strengthen trust from both companies and individuals towards its use, thus contributing to a more digitised European market.

About ARCADIAN-IoT

ARCADIAN-IoT is a three-year Research & Innovation project funded by the European Union's Horizon 2020 programme under Grant agreement n° 101020259.

The ARCADIAN-IoT project is powered by a strong consortium and relies on multidisciplinary partners with expertise in cybersecurity, IoT systems, encryption, data privacy and recovery mechanisms.

The ARCADIAN-IoT consortium is coordinated by Instituto Pedro Nunes (Portugal). The members of the consortium are: ATOS IT Solutions and Services (Spain), E-Lex Studio Legale (Italy), Load Interactive (Portugal), Martel (Switzerland), RGB Medical Devices (Spain), RISE Research Institute of Sweden (Sweden), BOX2M Engineering (Romania), SCNL Truphone (Portugal), Universidad de Navarra (Spain), University of West Scotland (UK), XLAB (Slovenia).

For more information, please visit www.arcadian-iot.eu.

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