

Press Release



SECURIOT-2 project will bring security to the Internet of Things, TIEMPO SECURE appointed as project leader

TIEMPO SECURE has just been appointed as the project leader of the FUI-funded SECURIOT-2 project that focuses on the development of new low-power secure elements, bringing secure transactions based security to the world of the Internet of Things, with a focus on smart home, smart energy and healthcare.

Grenoble, France – May 23, 2017 – The SECURIOT-2 project just obtained the recognition of the French government Fonds Unique Interministériel (FUI) - Régions, dedicated to financing projects supported by industry clusters (Pôles de Compétitivité). The SECURIOT-2 project obtains a EUR 5.4 million budget. It aims at bringing the accumulated experience of the secure transactions industry to the new world of the Internet of Things while taking into account IoT technical constraints, especially the need for very low electrical consumption and specific energy management.

The goal of the SECURIOT-2 project is to develop a Secure Microcontroller (SMCU) that will bring to the IoT environment a high level of security, similar to the one in use in the secure transactions industry (banking cards, ePassports...). This SMCU will also include unique energy management functions to address the need for low power consumption specific to the Internet of Things.

This development will include the needed services to provide a high level of security: key management, authentication, confidentiality and integrity of stored and exchanged data. It will also provide methods and procedures to ensure a secure remote update of the firmware and keys of connected objects after they have been installed on the field.

The project will build upon the expertise brought by its partners, especially relying on TIEMPO SECURE's secure element family based on its patented fully asynchronous design technology, which combines high security and high speed with ultra low power consumption, and is already certified Common Criteria EAL5+ and EMVCo. The conception will respect a secure industrial process, mastered by TIEMPO SECURE and TRUSTED OBJECTS, adapted from industrial flows used in producing banking card or ePassport chips.

The SECURIOT-2 project will include the demonstration of applications of the new Secure Microcontroller (SMCU), especially in consumer electronics and home appliances thanks to ARCHOS, smart energy with SENSING LABS and healthcare by ALPWISE.

The project includes innovative and prestigious partners:

- TIEMPO SECURE, the project leader, a semi-conductor specialist focusing on high-end secure products for the secure transactions industry and the Internet of Things,
 - ALPWISE, a protocol stack and IoT designer, in charge of developing a healthcare demonstrator,
 - ARCHOS, a pioneer in consumer electronics, illustrating the application of the project technologies in the scope of his collaborative PicoWAN IoT ecosystem
 - INRIA, the French National Institute for computer science and applied mathematics,
 - SENSING LABS, a specialist of smart meters, responsible for the development of smart energy applications,
 - TRUSTED OBJECTS, an expert in hardware-based end-to-end security dedicated to the Internet of Things,
 - UGA - Institut Fourier is an academic research lab, specialized in mathematics and cryptology, associated to the Université Grenoble Alpes,
 - UGA - Verimag, an academic research laboratory specializing in embedded systems, affiliated with the Université Grenoble Alpes,
- The members of the Institut Fourier and Verimag affiliated with the SECURIOT-2 project are also members of the project-team SCCyPhy of the LabEx PERSYVAL-Lab (Pervasive Systems and Algorithms) and are also members of the LSI Carnot.

The SECURIOT-2 project is supported by four competitiveness clusters:

- Minalogic, a global innovation cluster for digital technologies serving France's Auvergne-Rhône-Alpes region,
- SCS (Secure Communicating Solutions), specializing in microelectronics, telecommunications and software, in Provence-Alpes-Cote d'Azur region,
- Systematic, a cluster focusing on sensors and information processing, communication and decision-making processes, headquartered in Paris Region,
- DERBI, focusing on the development of the renewable energy sector based in the Occitanie-Pyrénées-Méditerranée region.

Serge Maginot, CEO of TIEMPO SECURE declares: "The fact that the SECURIOT-2 project has been accepted by the Government through the Fonds Unique Interministériel (FUI) - Régions and that it is supported by the four Competitiveness clusters Minalogic, SCS, Systematic and DERBI, clearly demonstrates the validity of hardware-based security solutions for the Internet of Things."

Serge Veyres, ALPWISE CEO, adds: "Our participation in this project, along with our partners, will allow us to propose the most secure solutions to our customers in the smart health segment."

Loïc Poirier, ARCHOS CEO, declares, "As Archos champions in providing consumer devices for all types of applications, we are confident that the SECURIOT-2 project will bring the highest level of security for our PicoWAN IoT overall network solution."

Nicolas Dejean, CTO and co-founder of SENSING LABS, says: "Our participation in the SECURIOT-2 project will allow us to combine end-to-end security solutions with our expertise in long-range low-energy connected objects for the smart building and smart metering eco-system."

Sami Anbouba, TRUSTED OBJECTS CEO, concludes: "Along with TIEMPO SECURE, we bring our digital security expertise for the Internet of Things into the SECURIOT-2 project in order to ensure the best security level for all future IoT applications."

About TIEMPO SECURE

TIEMPO SECURE offers unique chip solutions that perform secure transactions and have unmatched hardware security and speed/power performance in contactless environments. Its first family of secure products, TESIC-SC, is composed of dual-interface secure microcontrollers that target contact and contactless transactions such as banking payment, open loop ticketing and secure identification. TIEMPO SECURE chips rely on an innovative and patented clockless design technology developed by TIEMPO SECURE. The company is headquartered near Grenoble, France. More information can be found on www.tiempo-secure.com.

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About ALPWISE

Based in Grenoble, ALPWISE, is a worldwide leader in Bluetooth 5 protocol stack, and an Internet of Things designer (IoT). ALPWISE develops innovative solutions for communicating systems including *Bluetooth*® technology and low-power radio, embedded applications and connected sensors.

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About ARCHOS:

ARCHOS, a pioneer in consumer electronics, continues to innovate and revolutionize the consumer electronics market. Among others, the French manufacturer was first with an HDD MP3 player in 2000, a multimedia player in 2003; Google Android powered tablets in 2009, a connected Smart Home in 2014 and PicoWAN, the first collaborative network dedicated to the IoT, in 2016. Today, ARCHOS offers its own line of tablets, smartphones and connected objects worldwide. It also markets and distributes high-value innovative products associated with the tablet and smartphone markets: urban mobility, smart entertainment. With headquarters in France, offices in Europe and in Asia, ARCHOS has become a strong pan-European player and is furthering its international expansion.

ARCHOS is quoted on Compartment C of Eurolist, Euronext Paris, ISIN Code: FR0000182479.

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About INRIA

INRIA, the digital science research institute, promotes “scientific excellence in the service of technology transfer and society”. Graduates of the world's top universities, INRIA's 2,700 employees rise to the challenges of the computer sciences and mathematics. Thanks to its flexible model, INRIA is able to explore original ways of working with its partners in industry and academia so that it can quickly respond to the challenges of the digital economy, which requires new applications drawing on multiple disciplines. INRIA is at the forefront of many innovations that create added value and jobs.

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About SENSING LABS

Created in 2014, SENSING LABS is a startup specializing in data services for energy efficiency. SENSING LABS measures and helps lowering one's consumption thanks to long-range and low-energy connected sensors for metering applications (water, energy and thermal variables: temperature and humidity). The Senlab range is part of smart building and smart city concepts.

Visit www.sensing-labs.com

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About TRUSTED OBJECTS

TRUSTED OBJECTS is a leading independent player in the Secure IoT market, providing innovative embedded firmware and services to dramatically enhance the security of connected devices. The TRUSTED OBJECTS Secure Embedded Firmware (TOSF) can be easily customized to address a wide range of different security requirements generated by the high fragmentation of the IoT market. TRUSTED OBJECTS also delivers a set of services including security assessment, personalization engine, keys and certificates management, fast prototyping to accelerate the deployment of comprehensive solutions that meet the highest security requirements. Visit: www.trusted-objects.com.

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About UGA - Institut Fourier

The Institut Fourier is a research lab in mathematics associated to Univ. Grenoble Alpes and the CNRS, located on the campus of Saint-Martin d'Hères. The Institut Fourier consists of 130 persons (including staff and faculty). The core i of the research lab focuses on pure mathematics and applications to biology, cybersecurity and cryptology, computer science and physics. The works of the Institut Fourier on cybersecurity aim in particular to contribute to robust design of cryptographic mechanisms for industry.

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About UGA – Verimag

Research at Verimag provides theoretical and technical means for developing embedded systems, contributing to scientific advancement and industrial progress. The PACSS team of Verimag (Proofs and Code analysis for Safety and Security) develops methods and tools for helping analysis and verification of programs by mathematical means. Properties that are targeted are correctness, absence of runtime error or security properties (robustness against attacks, flow analysis).

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The SECURIOT-2 project is cofounded by the European Union

