Europe invests 50 million € in Secure and Safe Automated Systems

69 partners working together to develop future technologies focused on security, safety and privacy across multiple application domains.

Vienna, 20. June 2018 (AIT): SECREDAS stands for "Cyber **Se**curity for **Cr**oss Domain R**e**liable **D**ependable **A**utomated **S**ystems." SECREDAS consortium - 69 partners from 16 European countries - has kicked-off the 50 million Euro ECSEL Joint Undertaking[1] research and innovation project, to build a reference architecture for Secure and Safe Automated Systems compliant with the new GDPR Regulation. The focus will be on automotive, rail and personal healthcare, all of which demand high security and safety, covering technologies such as radar, lidar, Vehicle-to-Infrastructure and in-vehicle networks.

The project started on on May 1st, 2018 and the kick-off meeting took place on May 16-17 at NXP Semiconductors, coordinator of the project, and it will last for 3 years. First results are expected to be demonstrated at the ITS European Congress on June 3-6, 2019 in Helmond/Eindhoven, The Netherlands (see https://2019.itsineurope.com/).

Bert De Colvenaer, Executive Director of the ECSEL JU: "SECREDAS is one of the first ECSEL JU funded projects which looks at security, safety and privacy across multiple application domains. The new European GDPR-regulation provides the opportunity to develop future technologies able to answer to urgent safety, security and privacy concerns. The ECSEL JU programme demonstrates once again its flexibility to take up new challenges".

Patrick Pype, SECREDAS Project Leader: "We are proud to have gathered together the key European stakeholders with expertise in their respective application domains as well as in the security & privacy area. This will allow to make a giant leap forward in the trust of road users in autonomous transport modes and healthcare. The consortium expects that 25% of all new road vehicles will be fitted with SECREDAS technology by 2030, representing a value of 10B€".

The intertwining of safety, security & privacy of connected and automated systems is a concern in multiple application domains for many consumers in the European Union. As an example, one in four potential buyers/users in Europe of automated driving is reluctant to do so, mainly due to a lack of trust into its security. Hence industry and research communities need to work on an answer to ensure that these concerns are no longer roadblocks for further evolutions in the transport and personal healthcare sectors.

[1] ECSEL Joint Undertaking (JU) is a EU-driven, public-private partnership, funding innovation in electronic components and systems.
ECSEL JU funds Research, Development and Innovation projects for world-class expertise in these key enabling technologies, essential for Europe's competitive leadership in the era of the digital economy.
Through the ECSEL JU, the European industry, SMEs and Research and Technology Organisations are supported and co-financed by 30 ECSEL Participating States and the European Union.
ECSEL JU launches annual Calls for Proposals for research, development and innovation projects.
More information on: https://www.ecsel.eu/

The high-level goal of SECREDAS is to develop and validate multi-domain architecting methodologies, reference architectures, components and suitable integration and verification approaches for automated systems, as well as taking into account and influencing standardization, certification and qualification in different domains, combining high security and privacy protection while preserving functional-safety and operational performance. With SECREDAS, a first important step will be made into the direction of developing “trust”-building components and (sub-)systems for, in particular, the European transportation and medical industry of tomorrow.

The vision of SECREDAS is to take an important step forward by providing the means to enhance this trustworthiness. This will assist in making connected and automated vehicles a market reality, to ensure that European OEMs remain competitive and that they remain world leaders, together with embedded system and semiconductor suppliers. In addition, SECREDAS addresses cross-domain cybersecurity, privacy and safety related technologies in the areas of automated systems in the personal healthcare & railway sectors, with strong support to cross-domain actions.

Advanced cryptography technology contribution by AIT Austrian Institute of Technology

Within SECREDAS, AIT deeply focuses on advanced, e.g. attribute-based (quantum-safe) cryptography to enhance SECREDAS' Common Technology Elements (CTE) which are existing domain-independent industrial proven technologies. AIT is further supporting the supervisor architecture, the Railway Workpackage as partner of Thales Austria, and leads the Standardization, Certification and Qualification Workpackage. The Austrian contribution is supported by the Federal Ministry for Transport, Innovation and Technology as well as the Austrian Research Promotion Agency (FFG).

Contact:

AIT Austrian Institute of Technology GmbH:

Michael Mürling
AIT Austrian Institute of Technology
Marketing and Communications
Center for Digital Safety & Security
T +43 (0)50550-4126 | M +43 (0)664 2351747
michael.muerling@ait.ac.at | www.ait.ac.at

Follow us on:
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ECSEL JU:
Alun Foster, Head of Plans and Dissemination of the ECSEL JU (Communication related queries)
Alun.foster@ecsel.europa.eu
Yves Gigase, Head of Programmes of the ECSEL JU (Technology related queries)
Yves.gigase@ecsel.europa.eu

Partners in the SECREDAS Consortium:

Project Leader: NXP Semiconductors, NL

Austria:

Virtual Vehicle
AVL List Austria
CISC Semiconductor GmbH
AIT Austrian Institute of Technology GmbH
Thales Austria
SECINTO

Belgium:

Interuniversitair Micro-Electronica Centrum vzw
Transport & Mobility Leuven

Czech Republic:

Vysoke uceni technicke v Brne
Institut Mikroelektronických Aplikací s.r.o.

Finland:

University Oulu
Nokia Solutions and Networks Oy
Solita
Haltian

France:

Commissariat à l'Énergie Atomique et aux Energies Alternatives
Gemalto SA
ISSM - INVIA Semiconductor Security Meyreuil
Oberthur Technologies - Morpho
Internet of Trust
Prove & Run
YoGoKo
iN2Car
PSA ID
IFSTTAR
Canon Research Centre France

Germany:

NXP Semiconductors Germany GmbH
AVL Software and Functions GmbH
Roche PVT GmbH
senetics healthcare group
CommSolid
Fraunhofer IESE
Giesecke+Devrient Mobile Security GmbH
ZF Friedrichshafen AG
Technische Universität Kaiserslautern
Merantix

Hungary:

Commsignia KFT
Budapesti Muszaki es Gazdasagtudomanyi Egyetem

Italy:

Ideas & Motion s.r.l.
Magneti Marelli S.p.A.
UNIVERSITA DEGLI STUDI DI MODENA E REGGIO EMILIA
EVIDENCE s.r.l.

Netherlands:

NXP Semiconductors Netherlands BV
Fastree3D BV
Gemeente Helmond
Philips
Ubiqu
IMEC Holst
Stichting Katholieke Universiteit
Nederlandse Organisatie voor Toegepast Natuurwetenschappelijk
Technische Universiteit Eindhoven

Poland:

Politechnika Gdańska

Portugal:

Instituto de Telecomunicações
PDM e FC - Projecto Desenvolvimento Manutencao Formacao e
BeyondVision
IP
IPTelecom

Romania:

Universitatea Politehnica din Bucuresti

Spain:

Agencia Estatal Consejo Superior de Investigaciones Científicas
FICOSA ADAS S.L.U.
Advanced Automotive Antennas S.L.
Indra
Tecnologías, Servicios Telemáticos y Sistemas, S.A.

Sweden:

RISE Research Institutes of Sweden
RISE SICS AB
China Euro Vehicle Technology AB
Technology Nexus Secured Business Solutions AB

Tunisia:

ENIT/SYSCOM
SUPCOM/InnovCom

UK:

NXP Semiconductors