

SECREDAS

Product **S**ecurity for **C**ross Domain **R**eliable **D**ependable **A**utomated **S**ystems



DELIVERABLE REPORT

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DOCUMENT HISTORY

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Summary & description of Deliverable 11.1

SECRETAS is a new high-visibility research project for the development of multi-domain architecting methodologies, reference architectures and component validation with a view to bringing to market autonomous systems, notably in autonomous transport (automotive and rail) and health applications. Without credible protection against external security and safety threats, customers may consider autonomous systems not credible and insufficiently safe.

For this reason, 69 industrial and academic partners have combined forces to develop common architecture principles and components that will allow the European industries to maintain industrial leadership in autonomous systems and provide customers with reliable and safe products in autonomous transport and in health.

This message about SECRETAS was delivered to the international press via a press-release on the 19th June 2018. The press-release was provided to the media during a press-event at the ECSEL symposium in Brussels on 19-20 June 2018. The press conference and the press-release information have been featured in publications on social media (Twitter, LinkedIn, Facebook) and by (non-exhaustive list): GlobeNewsWire, ConnectSecurityWorld.com, OneNewsPage.com, EurAxess, ForexTV, Bits & Bytes. The press-release was also widely communicated to national media and to other interested parties through the websites of individual SECRETAS project partners and was translated in the national languages. This in turn triggered many job-advertisements by partner organisations in different print- and online media, which – as part of the ad –described the SECRETAS project itself using the information from the press-release.

The press-release is presented below as Deliverable 11.1 (D11.1). In the press-release and during the press-conference the contribution of the H2020 programme and the ECSEL-JU to the project was fully acknowledged.



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

SECREDAS stands for “Product **S**ecurity for **C**ross Domain **R**eliable **D**ependable **A**utomated **S**ystems. SECREDAS consortium - 69 partners from 16 European countries - has kicked-off the 50 MEuro ECSEL Joint Undertaking¹ 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.

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/>

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.

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.



Picture of the SECREDAS Kick-off Meeting at NXP Semiconductors, Munich, Germany

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