



German companies and research institutes optimize security solutions for Industrie 4.0 and connected high-value goods

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Munich, Germany – March 7, 2017 – Whether it's Industrie 4.0, self-driving cars or smart home solutions – connected machines and high-value goods need security mechanisms that can be updated. The objective of the ALESSIO research project under the leadership of Infineon Technologies AG is to develop and assess these security mechanisms. Project partners from Munich are Fraunhofer Institute for Applied and Integrated Security (AISEC), Giesecke & Devrient GmbH, Siemens AG and the Technical University of Munich (TUM) as well as Karlsruhe-based WIBU-SYSTEMS AG. The project runs until the end of 2019 and is funded by the Federal Ministry of Education and Research (BMBF) with approximately Euro 3.9 million. (Joint press release by Fraunhofer AISEC, Giesecke & Devrient, Infineon, Siemens, TU München and WIBU Systems)

Every new connected device in the Internet of Things is a potential target: sensitive data and information that are not sufficiently protected could be captured and used for further attacks. This is why reliable protection for safety-critical information is based on a combination of software and hardware. The hardware – a security chip – is comparable to a safe: a highly protected area in which data and security keys are stored separately from the software. But due to the long life-span of industrial facilities e.g. manufacturers need to be able to respond to changed or new attack methods. Hence the data and security-relevant information in these devices and industrial plants have to be updatable.

Within the next three years, the ALESSIO research partners will develop updatable security solutions for such embedded systems. One of the approaches is a conventional hardware-based Secure Element with updatable software. A Secure Element in complex, programmable logic devices (FPGA, field-programmable gate array) is also underway. In the end, three practice-oriented prototypes will show the solutions' feasibility and functional capabilities.

About Infineon

Infineon Technologies AG is a world leader in semiconductor solutions that make life easier, safer and greener. Microelectronics from Infineon is the key to a better future. In the 2016 fiscal year (ending September 30), the company reported sales of about Euro 6.5 billion with more than 36,000 employees worldwide. Infineon is listed on the Frankfurt Stock

Exchange (ticker symbol: IFX) and in the USA on the over-the-counter market OTCQX International Premier (ticker symbol: IFNNY).

More information can be found at www.infineon.com

This press release can be found online at www.infineon.com/press

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