G+D Mobile Security, Murata, and STMicroelectronics Bring Flexible and Efficient Security Solutions to a Wide Range of IoT Devices

(2017-06-06) (Munich, Kyoto, Geneva) (Giesecke+Devrient)

Munich, Kyoto, Geneva, June 6, 2017 – New long-range and low-power IoT (Internet of Things) technologies like Low-Power Wide Area Networks (LPWAN) are enabling new use cases in application areas such as smart cities, smart agriculture, smart manufacturing and work safety. Alongside robustness and availability, security is a key to successful adoption of these new applications. G+D Mobile Security, Murata, and STMicroelectronics have teamed up to integrate cost-effective security features into IoT devices. Available now for a wide range of applications and vertical markets, the joint solution aims to ensure integrity and confidentiality of the data exchanged and allow the distribution of LPWAN keys in a fully secure manner.

The number of devices connected to the Internet is steadily increasing, and they are often used in a broad range of critical systems. Non-cellular connectivity, such as through LoRaWAN™, will play an important role in vital IoT applications. Non-secure devices in these important systems are an easy target for manipulation and attacks and therefore pose a serious risk to the application and indeed the whole infrastructure. The new solution by G+D Mobile Security, Murata, and STMicroelectronics makes it easy to integrate security already at the device production facility, adding value to the product and protection to the IoT ecosystem in an efficient and convenient way.

The solution consists of G+D's Key Management System that relies on an STSAFE-A secure element attached to an STM32 general-purpose microcontroller, both from ST, built into a compact, cost-efficient LoRaWAN module designed by Murata. The joint offering forms the basis of a secure LoRaWAN ecosystem that provides end-to-end device security, an easy onboarding and lifecycle management of the LoRaWAN module, easy network deployments and tracking, as well as data privacy and integrity. The solution will be available for trials starting 7 June, 2017.

"G+D Mobile Security is a technology leader in secure ID management, and it is only logical for us to extend our proven expertise in payment and telecommunication to the IoT market, where we see an increasingly urgent need to secure the IoT ecosystem. Our Key Management System can authenticate, manage and monitor an IoT device throughout its lifecycle, and our partner solution with Murata and STMicroelectronics is an easy way for IoT device manufacturers to implement security," says Carsten Ahrens, CEO of G+D Mobile Security.

Akira Sasaki, General Manager IoT Module Products at Murata, adds: "It is very important to us to enable our customers to secure the IoT ecosystem. This partner offering, developed with trusted security and technology experts like G+D Mobile Security and STMicroelectronics, addresses this requirement and shows that implementing security in the IoT can be easy, scalable and cost effective, to the benefit of our customers and the entire LoRaWAN IoT ecosystem."

"ST is cooperating with G+D Mobile Security and Murata to offer LoRaWAN best-in-class secure solutions. Based on highly secure hardware, our solution ensures integrity and confidentiality of any communication through secure handling and storage of the secrets," adds Laurent Degauque, Secure Microcontroller Marketing Director, Microcontroller and Digital ICs Group at STMicroelectronics.

About G+D Mobile Security

Giesecke+Devrient (G+D) is a global security technology group headquartered in Munich, Germany. Founded in 1852, the Group has a workforce of 11,300 employees and generated sales of approximately EUR 2.1 billion in the 2016 fiscal year. 72 subsidiaries and joint ventures in 32 countries ensure customer proximity worldwide.

G+D develops, produces, and distributes products and solutions in the payment, secure communication, and identity management sectors. G+D is a technology leader in these markets and holds a strong competitive position. The Group's customer base mainly comprises central and commercial banks, mobile network operators, business enterprises, governments, and public authorities. For more information, please visit: www.gi-de.com .

About Murata

Murata is a global leader in the design, manufacture and supply of advanced electronic materials, leading edge electronic components, and multi-functional, high-density modules. Murata innovations can be found in a wide range of applications from mobile phones to home appliances, and automotive applications to energy management systems and healthcare devices. For more information, please visit: www.murata.com .

About STMicroelectronics

ST is a global leader in the semiconductor market serving customers across the spectrum of sense and power and automotive products and embedded processing solutions. From energy management and savings to trust and data security, from healthcare and wellness to smart consumer devices, in the home, car and office, at work and at play, ST is found everywhere microelectronics make a positive and innovative contribution to people's life. By getting more from technology to get more from life, ST stands for life.augmented. In 2016, the Company's net revenues were $6.97 billion. Further information on ST can be found at www.st.com.

For more information please contact:

G+D Mobile Security

Sourour Stanke

Head of Corporate Communications

Tel: +49 89 4119-1166

Fax: +49 89 4119-1208

sourour.stanke@gi-de.com

Murata

Jonathan Kosters

Marketing Communication Manager

Tel: +31 (0) 235698455

jkosters@murata.com

STMicroelectronics

Michael Markowitz

Director, Technical Media Relations

Michael.Markowitz@st.comMichael.Markowitz@st.com

+1-781-591-0354