



G+D Mobile Security enables secure end-to-end data protection for NB-IoT networks while saving costs and reducing deployment efforts

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Giesecke+Devrient

Munich, February 27, 2018 – G+D Mobile Security drives and supports the Narrow Band-IoT (NB-IoT) market by introducing an innovative data security solution. It provides secure end-to-end NB-IoT data protection that is independent of network security mechanisms or additional cryptographic hardware that would raise the bill-of-material (BOM) of cost-sensitive IoT devices. Mobile Network Operators (MNOs), application providers and end customers alike benefit from this new approach to IoT data security. G+D Mobile Security showcases this innovative solution for secure end-to-end data protection in NB-IoT networks at its booth 7A41 in Hall 7 at this year's Mobile World Congress in Barcelona (February 26 to March 1).

As NB-IoT security standards are still being discussed, this G+D solution provides MNOs and application providers with a full end-to-end secured network and data communication implementation. For MNOs, the self-contained, low-dependency SIM-based solution by G+D is a faster, easier and cheaper way to introduce NB-IoT security rather than outfitting or modifying the MNO core network. The complete solution is based on G+D's IoT SIM cards (IoT Advance S and IoT Advance M), a secure client application and an end-to-end secure server. The encryption key derivation and management in the secure element SIM eliminates the redesign of the NB-IoT device circuit board.

For application providers, G+D's security solution is significantly cheaper and faster than redesigning, remanufacturing and replacing existing NB-IoT devices. Relying on the security-by-design NB-IoT SIM solution eliminates the need for each application provider to introduce individual, uncoordinated and disjointed security solutions. In addition, application providers can be sure that data transmitted over an MNO NB-IoT network using G+D's solution are fully secure, tamper-proof and not readable by anyone else. For consumers, the solution offers protection from rogue attackers intent on forging sensor data from IoT devices or on sending illegitimate commands to take control of IoT devices for criminal intentions.

The plug-and-play SIM-based solution developed by G+D Mobile Security is pre-integrated with major NB-IoT chipset makers. The concept does not require any additions or changes to core network nodes and can be deployed today in any NB-IoT network anywhere. Any standard change or modification can be easily handled by more or less just removing and inserting a new NB-IoT SIM as a trusted secure element with well-established personalization and handling processes.

“The easy to use G+D solution works with existing NB-IoT devices currently deployed in PoC (Proof of Concept) design and trials globally, enabling a fast time-to-market and roll-out” explains Bernd Müller, Head of the Division Connectivity & Devices at G+D Mobile Security. “It provides a high confidence on the incoming secured IoT data as well as tamper-proof command and instruction data sent to the NB-IoT devices. And this solution is available today for customer trials.”

About G+D Mobile Security

G+D Mobile Security is a global mobile security technology company headquartered in Munich, Germany. The company is part of the Giesecke+Devrient group. G+D Mobile Security has a workforce of 5,800 employees and generated sales of approximately EUR 860 m in the 2016 fiscal year. More than 50 sales and partner offices as well as 20+ certified production and personalization sites and data centers ensure customer proximity worldwide.

G+D Mobile Security manages and secures billions of digital identities throughout their entire life cycle. Our products and solutions are used by commercial banks, mobile network operators, car and mobile device manufacturers, business enterprises, transit authorities and health insurances and their customers every day to secure payment, communication and device-to-device interaction. G+D Mobile Security is a technology leader its markets and holds a strong competitive position.