Chinese electric car manufacturer XPENG Motors selects G+DMobile Security for smart Digital Car Key solution

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G+D Mobile Security has won XPENG Motors as a new customer. The Chinese manufacturer of electric cars will equip its new production vehicle with a digital smart car key. Key elements of the technologies, solutions, services and infrastructure are delivered by G+D.

The next generation model of XPENG Motors, a highly intelligent and highperformance coupe named P7, will be available in China with the DCK (Digital Car Key) service from G+D Mobile Security. Buyers receive two NFC (Near Field Communication) cards as digital keys with which they can open, turn on and turn off the vehicle. This makes a conventional physical car key obsolete. G+D's DCK system is also integrated in Xiaomi's NFC solution, allowing P7 drivers to receive and share their digital car keys via their Xiaomi smartphone and mobile network.

The XPENG P7 will be presented to a broad specialist audience for the first time at Auto Shanghai 2019 from 18 to 25 April.

For manufacturers, cyber security is one of the most important criteria when introducing a digital car key solution. G+D delivers security technologies and services for the entire lifecycle of such a solution.

The digital car key solution from G+D Mobile Security for the XPENG P7 includes the following basic components:

→ DCK Management Server: complete lifecycle management of the digital car key, including application, generation, distribution of the digital car key and authentication of the vehicle owner;

→ eSE (embedded Secure Element) in the vehicle: certification according to Common Criteria EAL 5+; secure storage of keys, certificates and confidential data; secure connection of service platform and mobile device; verification of authentication protocols and commands;

→ Mobile Security Service: In XPENG's case, mobile security relies on a secure element in the mobile. For more general cases without the secure element the
solution will use G+D mobile security framework CyWall integrated in a smartphone environment for the secure use and management of mobile apps on networked devices; secure storage of digital keys and certificates using cryptographic methods; securing the connection between service platform and vehicle;

→ TSM (Trusted Service Manager) services: dynamic and secure management of applets and credentials in the in-vehicle eSE "over-the-air".

"The range of applications for mobile devices is growing continuously, and the digital car key is another example of a dynamically developing market. G+D Mobile Security is broadly positioned in this area and supports digital car key solutions in various form factors such as wearables, smartphones or NFC cards and via various access technologies such as passive entry passive start, Bluetooth low energy or NFC," explains Alois Kliner, Divisional Head Digital Enterprise Security at G+D Mobile Security.

Rocky Liu, Vice Product General Manager at XPENG, says: "As an emerging intelligent vehicle brand, XPENG views the partnership with G+D as part of our extreme pursuit to excellence in information security and service innovation. G+D's offerings based on their experience and expertise in finance and proximity communication are an important foundation for such pursuit. Our users will enjoy comprehensive driving experience through our collaborative innovation."

G+D's technologies, solutions and services for digital car keys are designed for the global market. In China, several vehicle OEMs already rely on the DCK solution from G+D. They plan to launch the DCK service before the end of this year or at the beginning of 2020.

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 5,300 employees and generated sales of EUR 868 m in the 2018 fiscal year. More than 40 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 in its markets and holds a strong competitive position.

About XPENG

XPENG, founded in Guangzhou 2014, is now one of the top Chinese intelligent vehicle designer and manufacturer, and a technical company committed to innovation in AI and internet. Across R&D centers and production bases in Silicon Valley, Guangzhou, Beijing, Shanghai, Zhaoqing and Zhengzhou, more than 3,000 people, of which 70% are developers, work in a dedicated way to bring users an enjoyable lifestyle. Our dedication to independent R&D and intelligent manufacturing position us to compete around the world. We are now working together with top brains in internet and automobile, who ensure our crossover mode of thinking and inclusiveness.