Giesecke+Devrient

Connected vehicles and the future of mobility

With G+D Mobile Security we help you maximize customer satisfaction

Connected vehicles are evolving beyond the pure motoring experience to deliver new levels of convenience and in-vehicle entertainment.

As the car increasingly becomes an extension of the consumer's digital life, the automotive industry is adapting to innovate faster and seeking to create first-class experiences for the consumer. Widespread embedded cellular connections are enabling new ways to inform and entertain drivers, as well as maintain the vehicles over their lifecycles. ABI Research predicts connectivity will transition from being a support for improved user experience to providing core, mission-critical functions for personal mobility over the next five years. (ABI Research big 3 trends 2018).

Find out how G+D Mobile Security's connected car solutions can help you transform your business to meet consumer demands.


Flexible Connectivity

Vehicles are an integral part of the connected lifestyle. Consumers expect personalized user experiences and the choice of flexibility around connectivity decisions in the car.

In the future, cars will have independent eSIMs for both the car and the driver. Drivers can take advantage of the consumer SIM and use the services, such as streaming music, that they regularly enjoy. Automotive eSIMs deliver the foundation for secure, reliable, communication required to collect and receive data. The data provides the foundation for connected vehicles, and in the future, autonomous car services.

- Almost half a billion vehicles will be connected in 2023.[1]
- 70% of consumers expect mobility offers to be personalized – reflecting their personal needs and mobility patterns.[2]

G+D Mobile Security offers flexible connectivity with its eSIM and eSIM Management solutions. This empowers you to make the best connectivity choice at any time, without the logistical task and expense of physically replacing the SIM.

1 Source: Strategy Analytics 2018   2 Source: PWC 2018 Strategy and Digital Auto Report

---
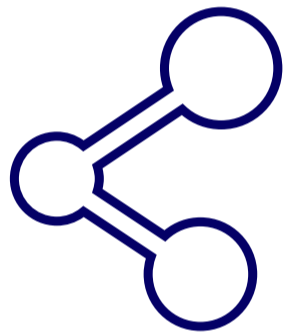
Future-proofing

Connectivity has moved up the list of features consumers value, with 40% of those surveyed saying that they would switch their car brand for more connectivity – twice as many as in 2014. (Gartner L2 Study, 2018). With the rise of the Internet of Things and autonomous driving, vehicles will connect and exchange data with other vehicles, infrastructure and consumers' personal devices.

M2M connectivity, in particular, plays a significant role. Vehicle SIMs must be robust, secure, and function over the entire lifetime of a vehicle. In addition, they must enable years of smooth operation, be flexible to handle multiple services, and ready to support innovation in the future.

- According to projections, every one of us will have up to ten connected devices in our possession by the year 2020.[1]
- In 2020 there will be 78 million installed app platforms in connected cars. This equates to a factor of 10 from 2016 app platforms.[2]

Nine of the top ten car manufacturers trust in G+D Mobile Security's car solutions. G+D Mobile Security's SIMs are GSMA compliant and guarantee future-proofed security and authentication solutions. They sustain both interoperability with next generation consumer devices and the duration of the vehicles life on the road.

*1 Source: Statista / IHS Market, 2018   2 Source: Statista / IHS Market, 2018*

New Mobility, New Experiences

Digital identities and their safeguarding play a significant role in the new mobility. Drivers will look at cars differently – from sharing cars to using them as a space to consume media, conduct work and make calls. Owned and shared vehicles alike will need to allow flexible personalization based on user profiles.

- Millennials make up >50% of the global population, and they expect their mobility experience to be personal, seamlessly integrated, multi-modal and on-demand.[1]
- 43% of respondents in a 2018 KMPG survey show confidence that half of the car owners they know today will no longer want to own a personal vehicle in 2025.[2]

G+D Mobile Security connects, secures and authenticates drivers and vehicles enabling the market to offer personalized services, build trust and deliver the best user experience.

1 Source: PWC 2018 Strategy and Digital Auto Report   2 Source: KPMG Global Automotive Executive Survey 2018
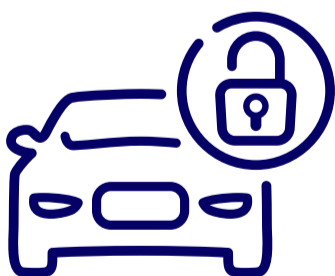
Secure Car Connectivity

Connected cars extend both services and data beyond the vehicle itself. Most new cars communicate with their drivers through remote keyless systems and smartphone apps, which control features like in-vehicle infotainment. Connectivity makes cars road safe but with new capabilities come new vulnerabilities which can be exploited by hackers. Security must evolve with connectivity if vehicles are to stay safe.

- Auto OEMs are considered to be more trustworthy as data guardians than digital players – but only as long as no data breach happens.[1]
- 82% of consumers would not buy a car from a manufacturer which has been hacked in the past.[2]

G+D Mobile Security's experience in securing mobile connectivity helps manage reliable, trustworthy identities for vehicles, users, drivers, service providers, and other connected devices and infrastructure.

1 Source: KPMG Global Automotive Executive Survey 2018   2 Source: FIA Region I Survey 2015

Managing identities in a connected world

As a global leader of identity management services, G+D Mobile Security ensures that digital identities and data remain secure and reliable at all times across industries. G+D Mobile Security brings comprehensive solutions that enable you to position yourself as a key player in the marketplace, ready to respond to the threats posed by agile game changers entering the market. G+D Mobile Security started its connected car SIM journey globally in 2012. Today 9 of the top 10 car manufacturers trust in our connected car solutions.

Follow us on: