DAKOTA Auto M2M

Connecting vehicles with flexibility

Connected cars are expected to account for over 90% of overall vehicle sales by 2024. With the eSIM M2M, carmakers can manage these connected cars with flexibility, simplify the supply chain and optimize connectivity costs.

The number of connected cars on the road is significantly growing—200 million connected vehicles are expected by 2025, and eSIM is the preferred technology of automotive industry players to provide future-proof and flexible connectivity.

eSIM technology enables over-the-air updates of connected car subscription plans. With an eSIM M2M, carmakers can optimize connectivity cost according to regions and easily swap fleets to the best connectivity partner. They can also leverage this technology to simplify their logistics using a single eSIM component worldwide.

Our offer

DAKOTA Auto M2M combines a secure automotive-grade hardware and an operating system (OS) that is able to host multiple mobile operator subscriptions.

Integrated into the telematics control unit (TCU) of the vehicle, DAKOTA Auto M2M has been designed to enable carmakers to remotely provision and manage a car's connectivity throughout its lifetime.

The latest generation of DAKOTA Auto M2M is compliant with the most recent GSMA specifications and is 5G-ready. This enables better driver personal data security with greater protection against call interceptions, fraud, and location tracking.

Interoperable with mobile operators' remote SIM provisioning platforms, DAKOTA Auto M2M is equipped with a set of features adapted to the automotive market, such as local emergency profile swap, car localization, and local connectivity selection capabilities.

Why IDEMIA?

With 25 years of know-how in SIM manufacturing and experiences with mobile operators, our eSIMs are field-proven and trusted by mobile operators, tier-1 suppliers and device makers.

In addition, we offer professional services to ensure perfect integration with the TCU, and end-to-end test with remote SIM provisioning platforms.

We have industrial experience in automotive quality production standards.

Benefits

Easy lifecycle management

Swap fleets to the best car connectivity package of any mobile operator to optimize cost and comply with local regulations and requirements.

Simplified logistics

Manage a single eSIM M2M component for a whole fleet of vehicles worldwide.

Designed for automotive

Manufactured in IATF-certified sites, DAKOTA Auto M2M runs on a chip that is AEC-Q100 Automotive Grade 2 qualified.

IDEMIA

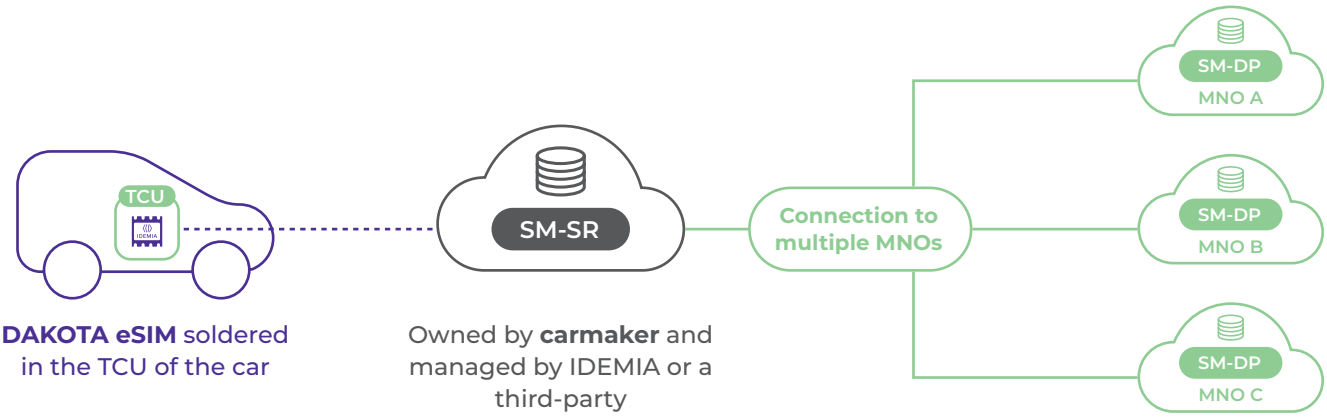
How it works

Carmakers integrate DAKOTA Auto M2M into the TCU with a preloaded subscription.

This initial subscription can be used to connect the car to the network, or it can be used to download a new subscription (depending on the car's location, carmakers' contract term, or any other business regulation).

Once a car is connected to the network, the carmaker can begin managing its connectivity remotely—wherever the car is in the world.

A powerful component enabling a flexible and performant connectivity management



DAKOTA eSIM soldered in the TCU of the car

Owned by **carmaker** and managed by IDEMIA or a third-party

SM-SR: Subscription Mangement Secure Routing
SM-DP: Subscription Manager Data Preparation
MNO: Mobile Network Operators

Cutting-edge technology

- Compliant with GSMA specifications SGP.02 v4.x and Trusted Connectivity Alliance interoperable profile v2.x
- Certified by the GSMA
- Proven interoperability
- Secure OS update mechanism
- 5G standalone
- Produced in IATF 16949 Automotive Quality Management System certified sites
- Running on a AEC-Q100 Automotive Grade 2 certified chip
- Compliant with GOST 33464-215, allowing usage of DAKOTA Auto M2M for ERA GLONASS in Russia