

Mar 3, 2025

Automotive Edge Computing Consortium





IRIGATE Outline





Name: IRIGATE



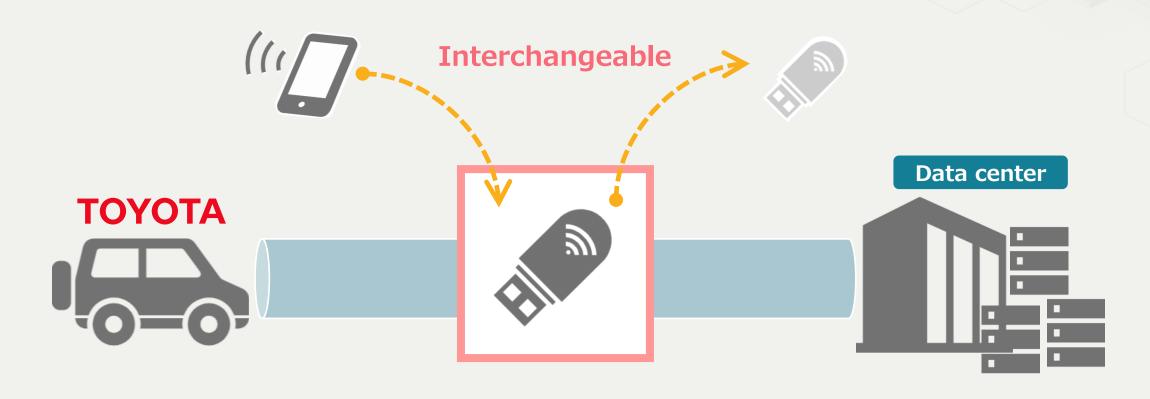
IRIGATE

- Intelligent
- · Replaceable
- Interconnections
- · GATE

XIt also play an English word "Irrigate" Water run in a farm

The aim of IRIGATE





By being replaceable, the issues of...

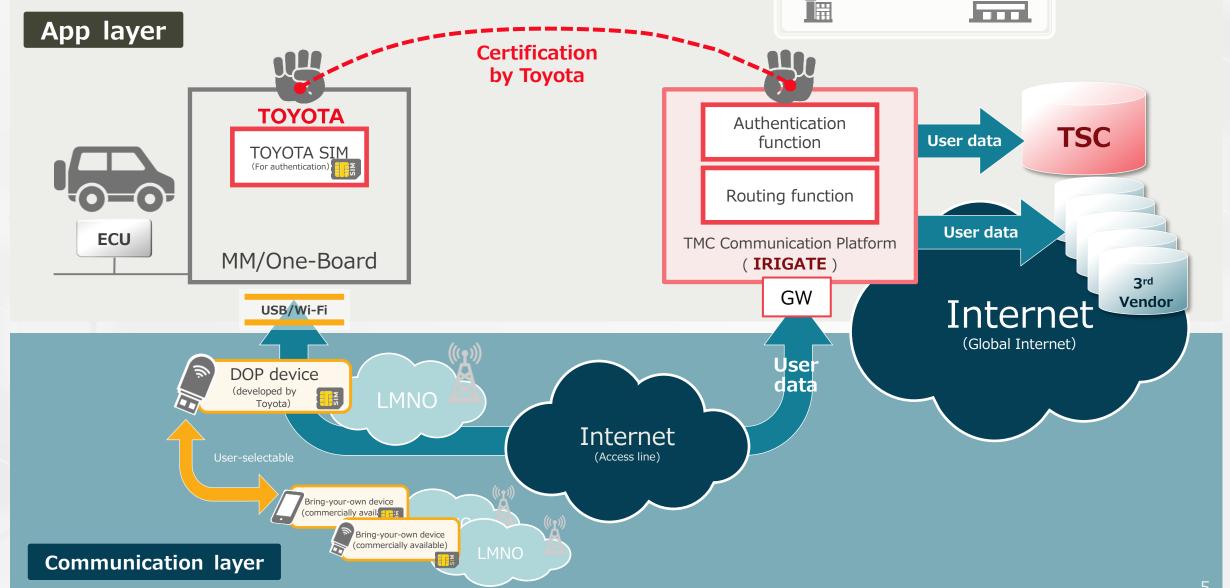
- Sunset/20-year continuous use
- Provide connected service in all countries

can be solved

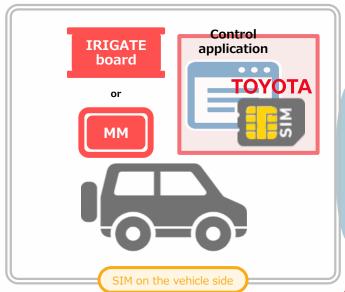
Architecture of IRIGATE



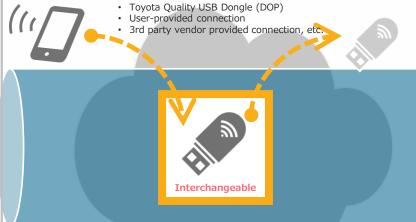




What is IRIGATE



Isolate Connectivity



With cloud technology, internalizing functionalities equivalent to those of telecommunications operators.

Authentication function

Routing function

Billing function

IRIGATE Core

/TBDC

TSC/TSP

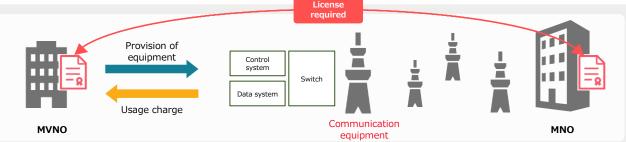


Cellular infrastructure (5GC) on the cloud side

Cellular on Cellular Covering the existing complex system

A system that centrally manages the connection between the vehicle and the cloud by placing a SIM on the vehicle side and cellular infrastructure (5GC) on the cloud side, and by independently building and operating both.









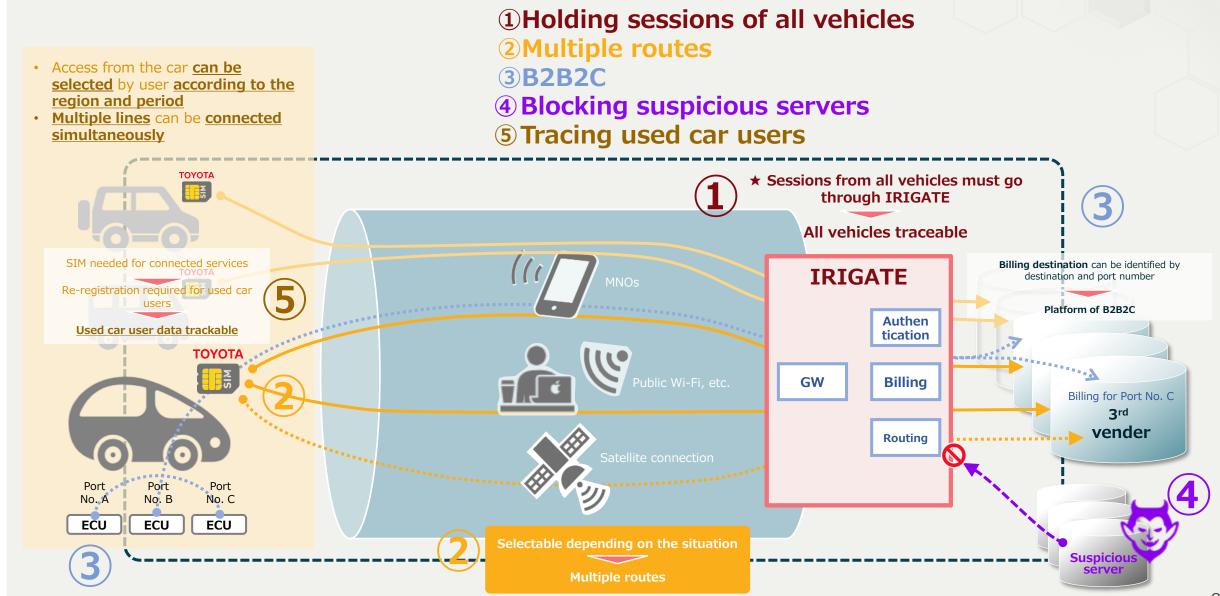
What IRIGATE can do?





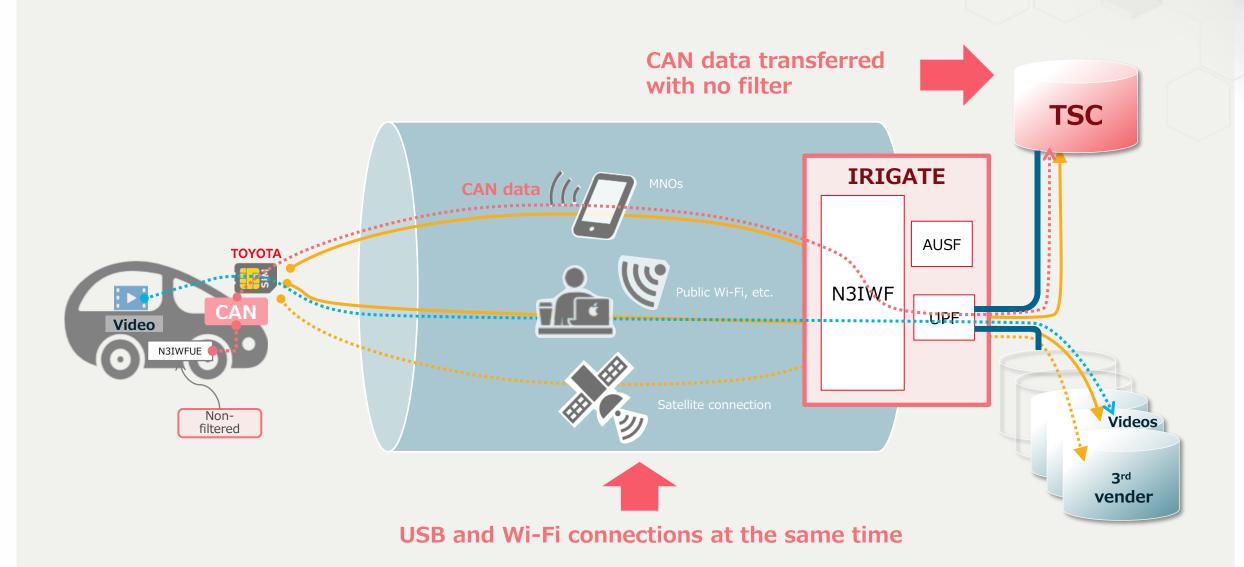
Why we need equivalent functionality as MVNOs





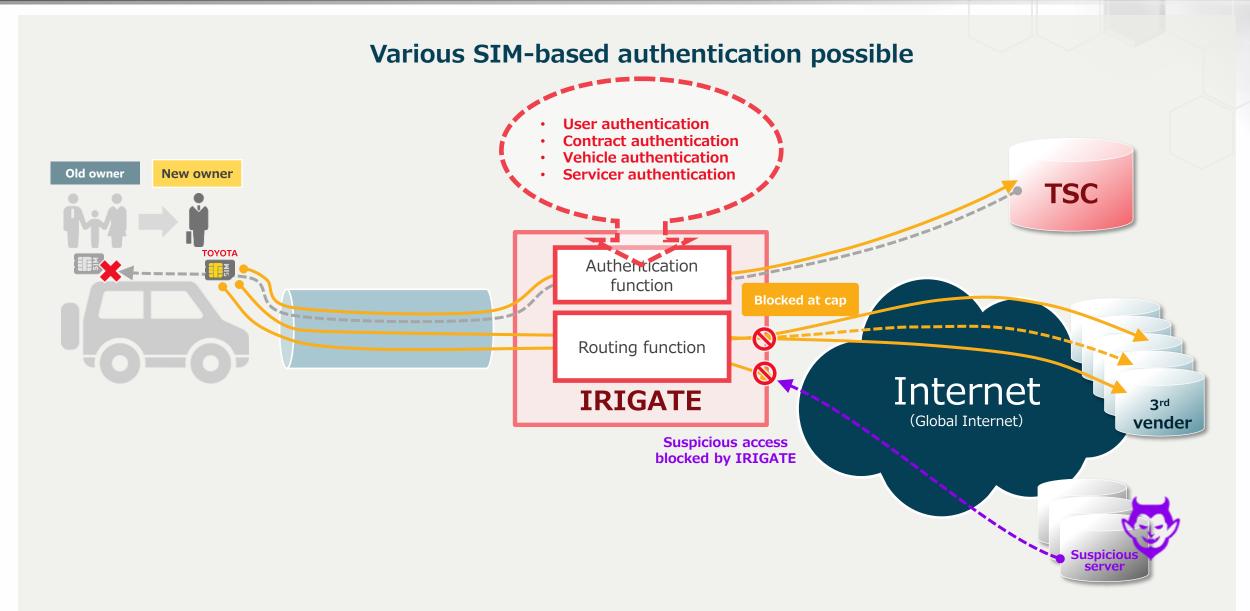
Two simultaneous connections (CAN and video)





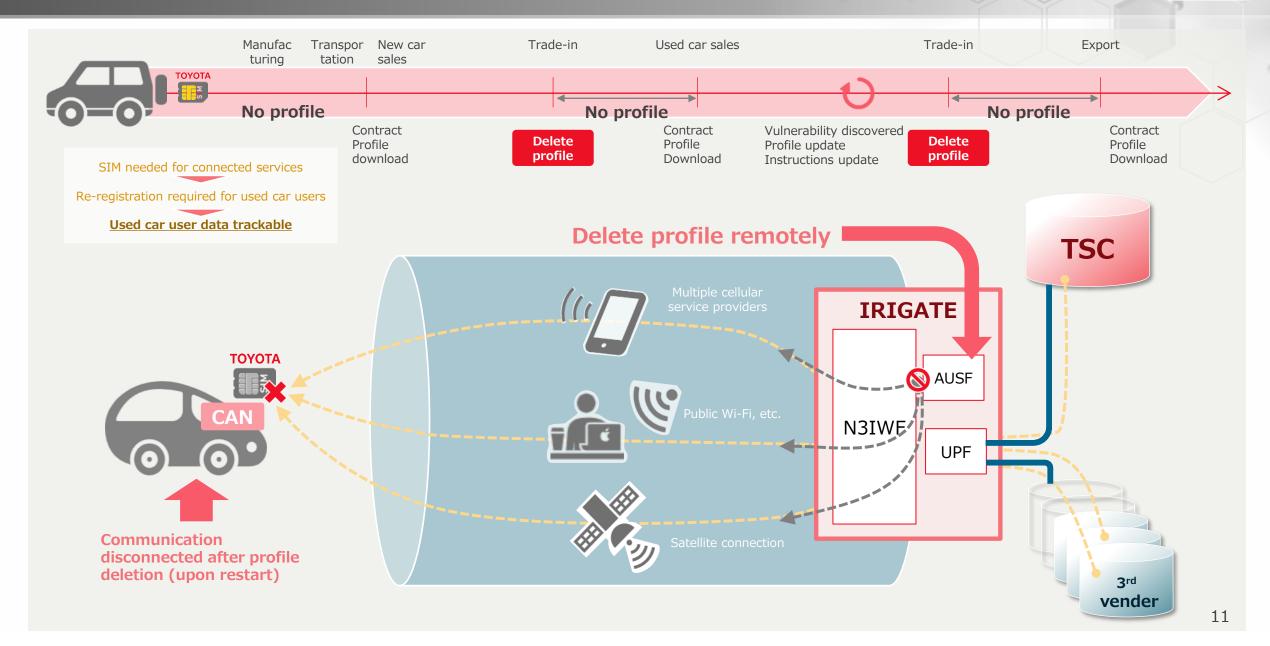
Same control as telecom carriers based on SIM





Remote profile deletion (Trace users)

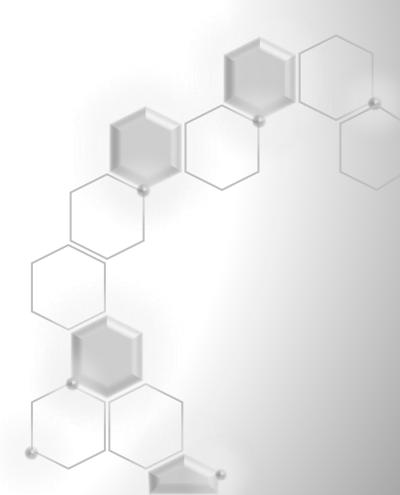






Lifecycle





Car lifecycle - 20-year service continuity

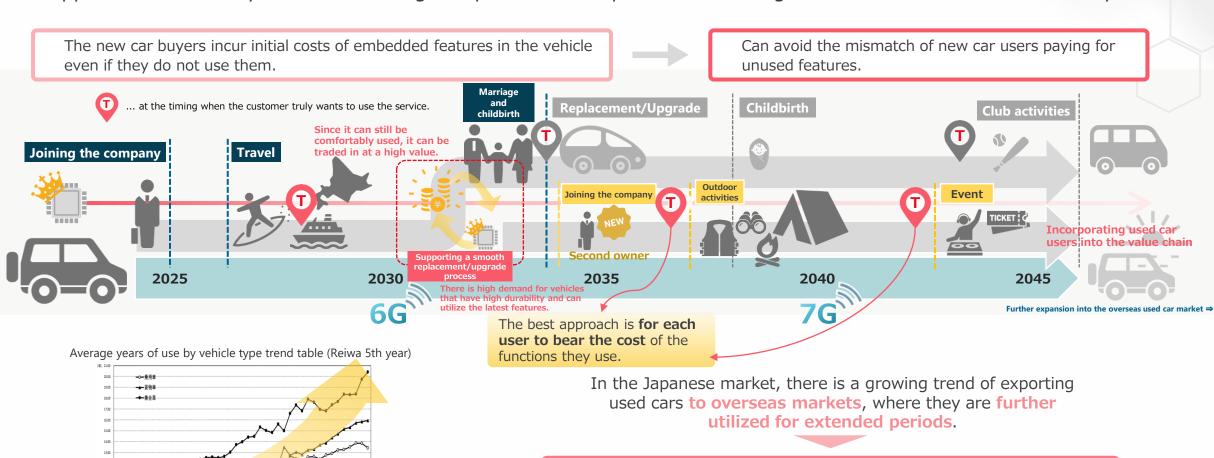
8~10

* Automobile Inspection & Registration Information Association

[The Trends in Vehicle Ownership in Japan]



Presupposition: The lifecycle of cars is long compared to the speed of technological innovation in the ICT industry.



The ability to adapt to changes in usage areas or sunset is the key to providing stable and continuous services.