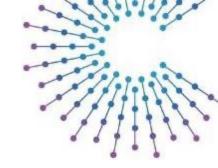


- Customer target group Fleet Management
 - Several vehicle properties already available
 - Often fleets exists of recent vehicle (1-3 years old)
 - Almost all recent passenger cars are "connected"
- Fleet Manager
 - Keep customer satisfied with "roadworthy" vehicle
 - Control costs for maintenance & repair
 - Sell vehicle with appropriate price





- UC1: Notification of service
 - GPS position (longitude & latitude)
 - Mileage/odometer
 - N/A: Next service distance
 - N/A: Next service date
- UC2: Vehicle Health Status
 - Mileage/odometer
 - Energy level
 - Fuel
 - SoC
 - Tire pressure

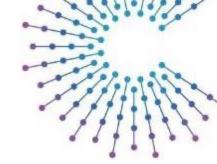
Fleet manager gets immediate information about fleet vehicles which need service Fleet manager can get in contact with fleet vehicle driver

Fleet manager gets additional information about the fleet vehicle health
Fleet manager can get in contact with fleet vehicle driver



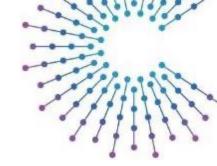
- UC3: Service Need Details
 - Oil service
 - Brake service
 - Engine coolant temperature
 - DTC (diagnostic trouble codes)
 - Battery voltage

Fleet manager gets detailed information about fleet vehicles what kind of service they need. Fleet manager can get in contact with fleet vehicle driver



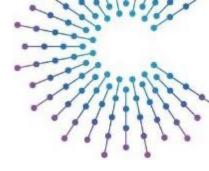


- android.location (AOSP GPS signals)
 - https://developer.android.com/reference/android/location/LocationListener
 - Latitude
 - Longitude
 - Speed
 - Altitude
 - Etc.
- android.car.VehiclePropertyIds (AAOS)
 - https://developer.android.com/reference/android/car/VehiclePropertyIds#PERF ODOMETER
 - PERF_ODOMETER
 - Current odometer value of the vehicle in kilometers.
 - Signature | Privileged permission "android.car.permission.CAR_MILEAGE" to read property



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- android.car.VehiclePropertyIds
 - PERF ODOMETER
 - Current odometer value of the vehicle in kilometers.
 - Signature | Privileged permission "android.car.permission.CAR_MILEAGE" to read property
 - TIRE_PRESSURE
 - Tire pressure in kilopascals.
 - Signature | Privileged permission "android.car.permission.CAR TIRES" to read property.
 - EV Battery:
 - To calculate the battery percentage, use: (EV_BATTERY_LEVEL/EV_CURRENT_BATTERY_CAPACITY)*100
 - Dangerous permission Car#PERMISSION_ENERGY to read property.
 - EV_BATTERY_LEVEL
 - EV_CURRENT_BATTERY_CAPACITY
 - FUEL_LEVEL
 - Fuel remaining in the vehicle in milliliters.
 - Dangerous permission Car#PERMISSION_SPEED to read property.



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Data Item	AAOS	AOSP	VSS
GPS		android.location LocationListener	Vehicle.CurrentLocation.{Timestamp,Latitude,Longitude,Altitude}}
Next Service	N/A		Vehicle.Service.DistanceToService
Service Details	N/A (oil, brake, etc.)		Vehicle.TraveledDistance
Odometer	PERF_ODOMETER		Vehicle.TraveledDistance
Tire Pressure	TIRE_PRESSURE		Vehicle.Chassis.Axle.Row{n}.Wheel.{Left, Right}.Tire.Pressure
Battery Level	EV_BATTERY_LEVEL		Vehicle.Powertrain.TractionBattery.StateOfCharge.Current
	EV_CURRENT_BATTERY_CAPACITY		
Battery Voltage	N/A		Vehicle.LowVoltageBattery.CurrentVoltage
Fuel level %	FUEL_LEVEL		Vehicle.Powertrain.FuelSystem.Level
DTCs	OBD2_LIVE_FRAME OBD2_FREEZE_FRAME		Diagnostics.vspec Deprecating OBD-branch
MIL	N/A		Vehicle.OBD.Status.IsMILOn



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