CarMedialab

Automotive Engineering
Projekt Description

Project Description

CarMedialab

Requirements

Please describe in a few sentences your use case by referring to following topics:

- Environment: car, truck, bus, test bench, facility
- Purpose: development, pre-/post-SOP, commercial
- Constraints: power supply, vehicle interfaces, connectivity, cloud support, security, mounting position
- Goal
- Timeline

Please fill in the points below as detailed as possible to enable the best possible understanding of your requirements and expectations. If any points are unclear, these can also be clarified in the further course.

Hardware

Power Supply

- ❑ OBD-II ❑ Breakout-Box/Banana connector
- ❑ Physical ignition available

WakeUp-Setup

- ❑ Ignition
- ❑ CAN-Traffic
- ❑ Modem

Vehicle Interfaces

- ❑ OBD-II
- ❑ FMS/J1939
- ❑ CAN (Amount: ____) ❑ CAN-FD (Amount: ____)
- ❑ FlexRay
- ❑ Automotive Ethernet / BroadR-Reach
- ❑ Ethernet

Logging

Protocols

- ❑ CAN/CAN-FD ❑ FMS ❑ J1939
- ❑ FlexRay
- ❑ CAN Calibration Protocol (CCP)
- ❑ Universal Measurement & Calibration Protocol (XCP)
  - ❑ CAN/CAN-FD
  - ❑ FlexRay
  - ❑ Ethernet

Type

- ❑ Full-Trace
- ❑ Continuous
- ❑ Triggered

Format

- ❑ MF4
- ❑ CSV
- ❑ ASC

Diagnostics

Protocols

- ❑ UDS (ISO 14229)
- ❑ ISO-TP (ISO 15765 – CAN/CAN-FD, FlexRay)
- ❑ DoIP (ISO 13400)
- ❑ OBD (ISO 15031)

Format

- ❑ RAW
- ❑ Human-readable

Streaming

Endpoint

- ❑ Native MQTT Broker
- ❑ Microsoft Azure
  - ❑ IoT Hub
  - ❑ Event Hub

Direction

- ❑ Flea 4+ → Cloud
- ❑ Cloud → Flea 4+

Rapid Prototyping

Level

- ❑ Configurable
- ❑ Low-Code Editor
- ❑ Lua Scripting

Interaction

- ❑ Access to onboard services
- ❑ RemoteLED-Button
- ❑ Remote Validation on Flea 4+*

Cloud Support

- ❑ Microsoft Azure
- ❑ Amazon AWS*
- ❑ Bosch IoT Insights
- ❑ Pantaris (ETAS GmbH)
- ❑ Custom

Storage

- ❑ CarMedialab's cloud
- ❑ Customer cloud
- ❑ Public cloud

Mobile Data

- ❑ Customer SIM

Region

- ❑ EMEA/APAC
- ❑ N. America

Data Volume

- ❑ 1 GB
- ❑ 2 GB
- ❑ 5 GB

* planned for 2023

Sensors

- ❑ GPS
- ❑ Motion (accelerometer, gyroscope, compass)
- ❑ Analog inputs
- ❑ IP camera

Connectivity

- ☒ Mobile communication (≤ LTE) - obligatory
- ❑ Bluetooth
- ❑ Wi-Fi

Service Level

- ❑ Consultance (Customer provides requirements/expectations, CarMedialab takes care)
- ❑ Support (Customer requests assistance as needed)

Additional Notes

If you have additional comments, constraints or aspects that have not been covered so far, please list them here:

Feedback

How did you become aware of CarMedialab?

Send

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