Eclipse Software Defined Vehicle

Eclipse Velocitas

Date: 22nd September 2022
Agenda

→ Recap: What’s Eclipse Velocitas
→ Major Achievements (last 2 month)
→ What’s next?
Vehicle Application Template

Vehicle Model Generator

Programing Model

Vehicle Model

SDK

Vehicle Abstraction Layer

Deployment Target Runtime, e.g. Docker or Device running Leda

KUKSA Data Broker

CAN Feeder

SOME/IP Feeder

DDS Feeder

Middleware

Vehicle Application 1

Vehicle Application n

Vehicle App Abstraction

Kuksa Data Broker Client

Middleware API

Examples

Dev Container

Application Runtime Services

Test Framework

Cl/Release workflow

Central Configuration (via AppManifest)

Deployment Target Runtime, e.g. Docker or Device running Leda
Major Achievements

last 2 months

Python programming model open sourced and simplified

Project documentation available: websites.eclipseprojects.io/velocitas/

Vehicle Signal Specification

VSS 3.0 Support

First version of C++ programming model open source ready
What’s Next?

- Bring our C++ programming model on the same level as the Python programming model
- Simplify the python vehicle model
- Speeding-up Dev Environment and CI / release workflows
- Integration in playground digital.auto
THANK YOU