What is Eclipse Velocitas?

Programming Model

- Vehicle Application Template
  - Vehicle App Skeleton
  - Central Configuration (via AppManifest)
  - Dev Container
  - CI/Release workflow
  - Application Runtime Services
  - Test Framework

Vehicle Model

- Generates

Vehicle Model Abstraction

- Uses

SDK

- Vehicle App Abstraction
- Kuksa Data Broker Client
- Middleware API
- Examples

Vehicle Abstraction Layer

- VSS
- KUKSA Data Broker
- CAN Feeder
- SOME/IP Feeder
- DOS Feeder

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

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
Useful links

Software defined Vehicle (SDV)
● Website: https://sdv.eclipse.org/
● SDV related Projects: https://sdv.eclipse.org/projects/
● Eclipse Leda: https://projects.eclipse.org/projects/automotive.leda
● Eclipse Velocitas: https://projects.eclipse.org/projects/automotive.velocitas
● Eclipse Velocitas Source Repos: https://github.com/eclipse-velocitas
  ○ Documentation: https://github.com/eclipse-velocitas/velocitas-docs
  ○ Vehicle App Python SDK: https://github.com/eclipse-velocitas/vehicle-app-python-sdk
  ○ Velocitas Vehicle Model for Python: https://github.com/eclipse-velocitas/vehicle-model-python
  ○ Velocitas Vehicle Model Generator: https://github.com/eclipse-velocitas/vehicle-model-generator
  ○ Release Documentation Render Action: https://github.com/eclipse-velocitas/release-documentation-action
  ○ License Check GitHub Action: https://github.com/eclipse-velocitas/license-check
● Vehicle Signal Specification: https://github.com/COVESA/vehicle_signal_specification
Questions