Eclipse Software Defined Vehicle

Eclipse Velocitas

30th March 2023
Agenda

→ Major Achievements (last months)
→ What’s next?
Major Achievements last months

Digital.Auto Integration

Migration of prototypes in a Velocitas repositories including Vehicle Model generation to quickstart vehicle app development

Lifecycle Management

Opportunity to update existing Velocitas repository via CLI
Digital.Auto Integration

Motivation

• Web based prototyping environment with virtual simulation of a vehicle functionality with onboard and offboard functionalities

• Graphical visualization of COVESA Vehicle Signal Specification (VSS)

• Fast feedback and voting options for a business idea

Benefits

• Creation of vehicle app repository including generation of vehicle model from tailored vehicle API with one click

• Usage of generated vehicle model on code level with type safety and auto-completion

• Ready to deploy containerized vehicle app

• Test vehicle app locally with real runtime services
Digital.Auto Integration

playground.digital.auto

Vehicle API Catalogue
Browse, explore and enhance the catalogue of Connected Vehicle Interfaces

Prototyping
Build and test new connected vehicle app prototypes in the browser, using Python and the Vehicle APIs

User Feedback
Collect and evaluate user feedback to prioritize your development portfolio

Get Started
Get Started
Get Started

Industry Partners
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BOSCH
COWESA
COVESA
ECLIPSE
Steinbeis
Lifecycle Management

**Motivation**

- Providing an easy update mechanism for vehicle app repositories to benefit from bugfixes and new features, e.g. provided by the Velocitas team
- Reducing the number of duplicated scripts, workflows and tools for the different supported languages
- Unifying the way to maintain the environment setup by replacing script execution with command line tool (CLI commands)

**Benefits**

- Less complexity for setting up the development environment through clear CLI command
- Improved dependency management by introducing new devenv-packages for each dependency category
- Loose coupling between programming language, tools (IDE), infrastructures (GitHub, Gitee) and base functionality of Velocitas
Lifecycle Management
What’s Next?

App Manifest Adaption

Defining the app metadata (for development environments and deployments) vehicle agnostic

First Velocitas Release

Create the first official Eclipse release following the Eclipse process based on a stable Velocitas tool chain
THANK YOU