



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



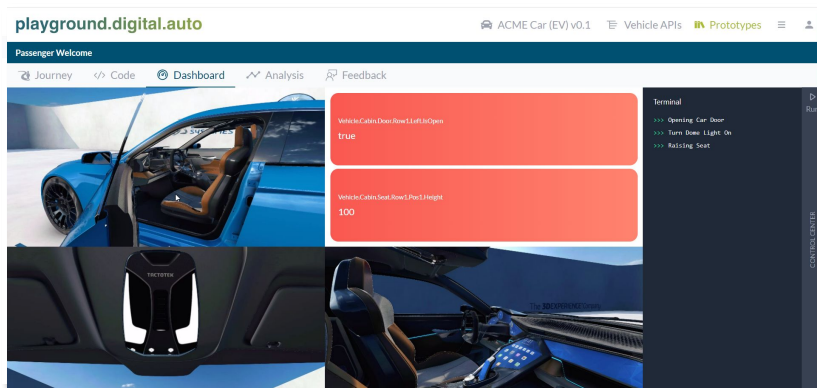
Digital.Auto Integration

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

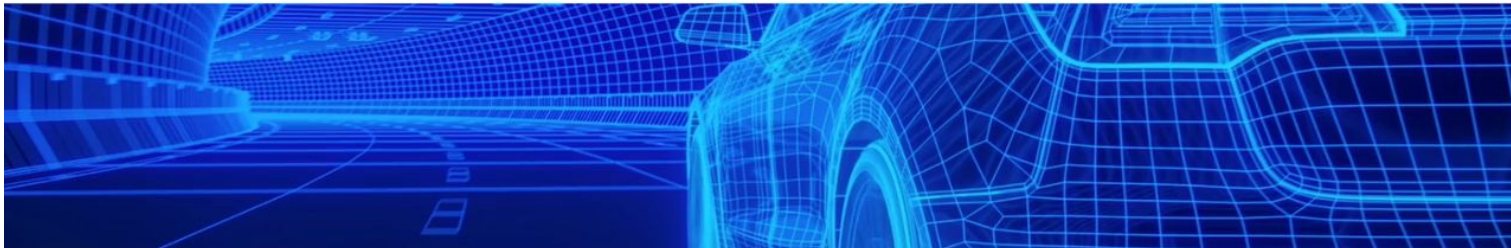




Digital.Auto Integration

playground.digital.auto

Select Model  



Vehicle API Catalogue

Browse, explore and enhance the catalogue of Connected Vehicle Interfaces

Get Started

Prototyping

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

Get Started

User Feedback

Collect and evaluate user feedback to prioritize your development portfolio

Get Started

Industry Partners



Standards & Open Source



Academic Partners



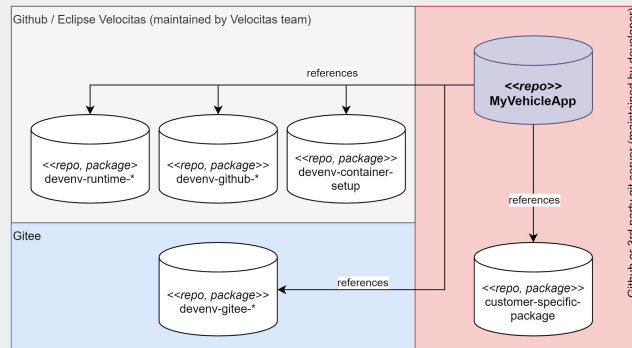
CLI Lifecycle Management

Motivation

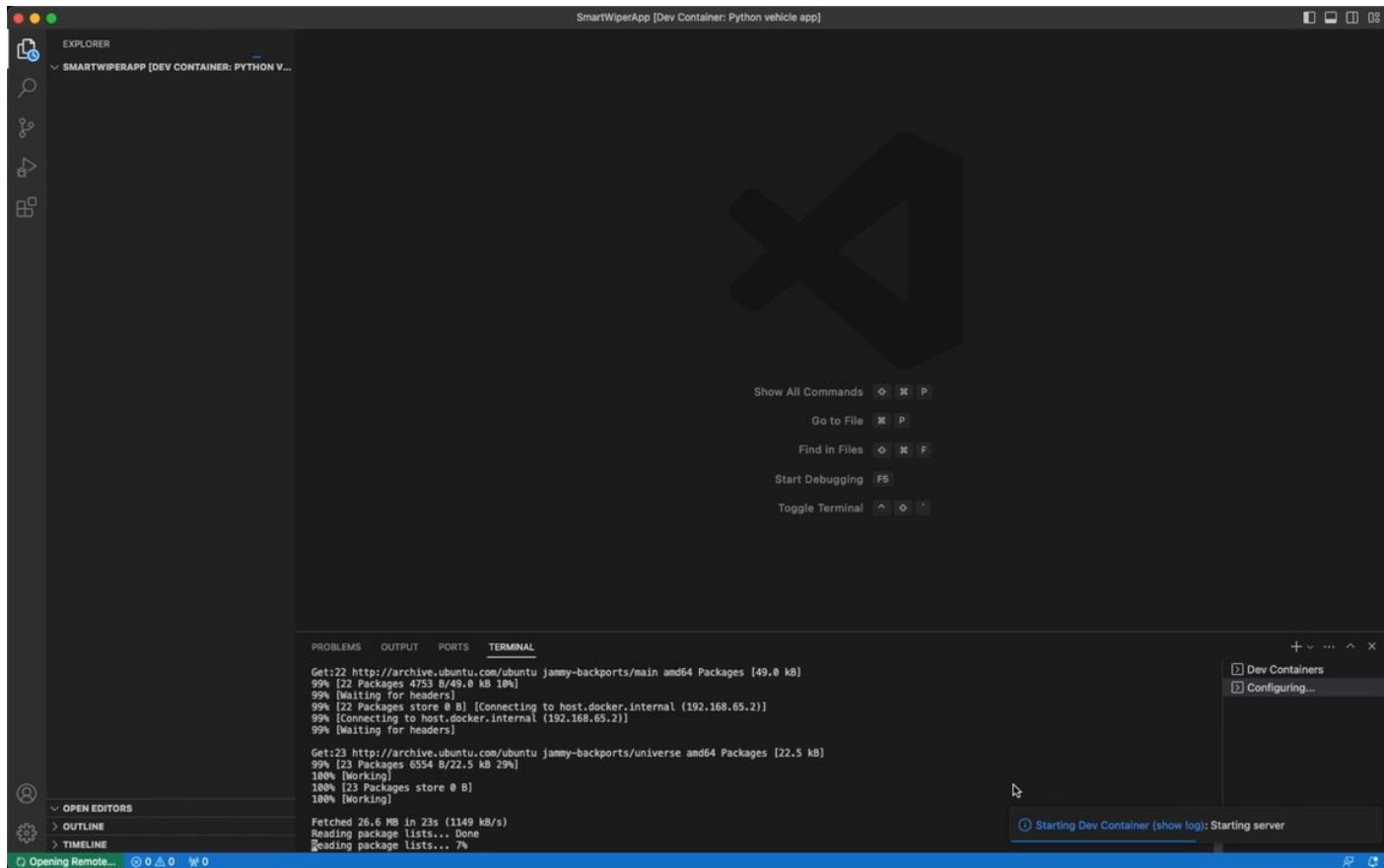
- Providing an easy update mechanism for vehicle app repositories to benefit from bugfixes and new features, e.g. provided by the Velocitas team
- Reducing the number of duplicated scripts, workflows and tools for the different supported languages
- Unifying the way to maintain the environment setup 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

