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ECLIPSE
FOUNDATION

OPENPASS

WORKSHOP FUTURE ROADMAP
10TH JANUARY 2022

openPASS

AGENDA

1. **Current developments**
2. **Release procedure**
3. **Requirement collection**
   a. **Repository structure**
   b. **Functionality and tasks of the core, the scenario engine and the API**
   c. **Modularity and standards on component level**
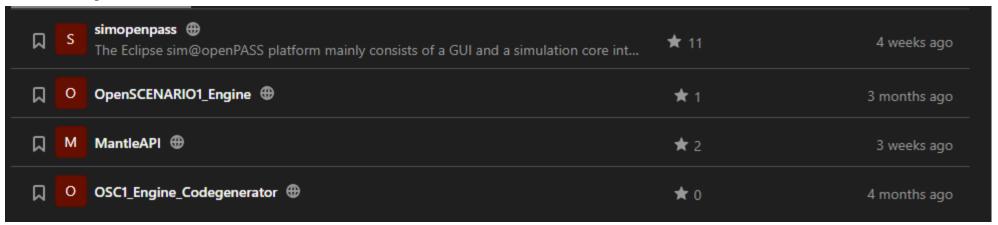
1. CURRENT DEVELOPMENTS

2. RELEASE PROCEDURE

Strong delay in the publication of the latest releases

→More releases with smaller changes

→SC/AC decides whether a new release should be published

3.A) REPOSITORY STRUCTURE

Status quo

simopenpass ⊕ The Eclipse sim@openPASS platform mainly consists of a GUI and a simulation core int...	★ 11	4 weeks ago
OpenSCENARIO1_Engine ⊕	★ 1	3 months ago
MantleAPI ⊕	★ 2	3 weeks ago
OSC1_Engine_Codegenerator ⊕	★ 0	4 months ago

Proposal

- simopenpass
- simopenpass_core
- simopenpass_GUI
- simopenpass_models (bicycle model, modular driver, AEB, …)
- OpenSCENARIO1_Engine
- MantleAPI
- OSC1_Engine_Codegenerator
- YASE

3.B) FUNCTIONALITIES AND TASKS OF THE CORE, THE SCENARIO ENGINE AND THE API

Current functionalities and tasks of the simulation core:

The core consists of the simulation manager and the simulation executable

- Simulation manager (opSimulationManager.exe):
  - collects and organizes input data
  - triggers one simulation process for each configured scenario/experiment
  - can start several experiments simultaneously
- The simulation executable (opSimulation.exe) is the one performing the actual simulation:
  - run several simulations for one stochastically changed scenario / experiment
  - Read all configuration files and provide the data to the corresponding modules / components
  - Load all needed / configured libraries (agent components, core modules)
  - Instantiate all configured agents and ensure the correct data exchange between the components and modules
  - schedule / trigger each component and module in the correct order
- Core components: spawner, driver, vehicle components, stochastics, world, collision, …
- Agent/model components: sensor, algorithm, dynamics

3.B) FUNCTIONALITIES AND TASKS OF THE CORE, THE SCENARIO ENGINE AND THE API

TÜV SÜD

Core

- Credibility assessment

Scenario Engine

- Parameter variation through an integration of OpenSCENARIO 1.1

- Short/Mid term: Parse OpenSCENARIO V1.0.0, V1.1.0 and V2.0 into an openPASS readable format

- Long term: Parse any scenario description language into an openPASS readable format

API

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General

- Visualization

3.C) MODULARITY AND STANDARDS ON COMPONENT LEVEL