

# openPASS Strategy Workshop

**Meeting date:** 9<sup>th</sup> November 2022

**Location:** TÜV SÜD Garching

**Participants:**

Name	Company	Participation
Manel Hammouda	BMW Group	X
Thomas Platzer	BMW Group	X
Jan Dobberstein	Mercedes Benz AG on behalf of Mercedes-Benz Tech Innovation	X
Per Lewerenz	Mercedes Benz AG on behalf of Mercedes-Benz Tech Innovation	X
Dr. Daniel Schmidt	Robert Bosch GmbH	X
Tuan Duong Quang	TÜV SÜD Auto Service GmbH	X
Dr. Stefan Schoenawa	Volkswagen AG	X

## 1. Interest Groups

The openPASS WG discussed about the switch to Interest Groups (follow-up on SC meeting 3<sup>rd</sup> November 2022). The openPASS members are doing very well with the current structure as a Working Group. Changing to an Interest Group, legal departments would need to be contacted, which would cause a long feedback time and additional effort. For these reasons, the members decided to continue as an openPASS Working Group. Tuan will inform Sharon from the Eclipse Foundation.

## 2. openPASS as an ecosystem, focus on modularization of software components

The WG discussed on how to synchronize the parallel development paths of OpenSCENARIO Engine, MantleAPI, Yase, opVisualizer, GUI and simopenpass. In general, all modules which are not mandatory for the simulation run should be extracted and an own repository should be created. To emphasize the modular approach of openPASS the aim is to use each modul as an exchangeable component.

The openPASS WG decided to leave opVisualizer independent. An according repository already exists (see [link](#)).

The openPASS WG decided to extract the GUI and create an additional repository.

Having multiple repositories each with an own versioning system makes it difficult to understand which version is compatible with which module. It should be made clear with which versions openPASS v1.0 is compatible with. The WG agreed to note down in the documentation the version compatibility. Furthermore, the release notes should state the same information. When it comes to testing the compatibility, the CI should perform compatibility checks.

The vision is to have the mapconverter as an independent instance which is currently not the case. It is at the moment part of simopenpass.

### **3. Scope of release v1.0**

The WG discussed the scope for release v1.0. A Miro-Board was used to collect all the requirements. It can be found [here](#).

It could be identified that only the OpenSCENARIO Engine, MantleAPI and the GUI are new features.

Stefan presented the current status of the GUI and gave an outlook of planned developments towards v1.0. His presentation can be found on [Eclipsepedia](#). The commissioned company Hexad is currently fixing some bugs. They address in general openPASS bugs and not GUI specific ones. In the mid-term a developer of Hexad should become Eclipse committer.

Currently, there are no tests for the GUI. VW/ Hexad is working on such tests.

Meetings are required to synch between developments of the GUI and scenario based simulation plugin.

The target for the release date of v1.0 has been set for the first half of 2023.

### **3. SET Level key take aways, lessons learned**

Thomas showed the slides presented at the Community Day on the EclipseCON 2022. With the introduction of the FMU Wrapper the flexibility of openPASS could be increased drastically. OpenPASS is covering most of the parts of the V-Model. The questions after the presentation were focused mainly on the used models.

It is estimated that the driver behavior model will be released as an open source module in 2023. Until now, it is unclear in what framework this will be published.

Open Point: How is openPASS reacting when a vehicle is driving on an undefined OpenDRIVE area?

### **4. Next steps**

In the workshop Stefan already presented the planned developments for the GUI for v1.0. To clarify further capabilities of the GUI Stefan will setup a GUI refinement meeting.

There are a lot of open issues in GitLab (~70) concerning simopenpass. Tuan will setup an issue meeting on the 5<sup>th</sup> December to discuss these issues.

Jan will setup a documentation workshop. Following topics are going to be discussed: Structure of documentation, feedback for documentation, parts needed to be refactored. The workshop should take place in the beginning of 2023.

Some feedback has been received regarding the new webpage design. The topic will be discussed in the upcoming SC meeting.