

## Minutes of 4th openPASS Steering Committee Meeting

April 6, 2017, Martinsried

Attendees: Dmitri Fix (ITK), Jan Dobberstein (Daimler), Lei Wang, Timo Vogt (both BMW), Ralph Mueller (Eclipse GmbH); via phone on behalf of VW GoA: Lukas Stark (Volkswagen)

Minutes: Jan Dobberstein (Daimler)

### 1. Agenda

The agenda (see Attachment 1) was accepted.

### 2. WG administration

No new members or committers joined the WG or approached the project `sim@openPASS` since the last meeting.

Jan submitted a paper about the objectives of openPASS to ESV conference 0217 with all members included as co-authors. The presentation will be held by Jörg Bakker (Daimler) who is attending the conference. Furthermore, Jan presented the openPASS WG to the accident research community at ADAC symposium 2017 in Munich.

Ralph asked the group for “50 words on openPASS”. There is such a mission statement already online on Tuleap.

Since the initial commit, there were no further commits, but internal activities at Daimler, BMW and VW GoA in order to develop the next modules (see minutes 3<sup>rd</sup> SC). During the status update, it came out that the BMW-owned Xface world representation is available for release, but not re-factored yet.

A: Timo checks whether the current open source activities also address re-factoring of Xface.

### 3. Update on OpenSCENARIO (xosc) and Open Simulation Interface (OSI)

Jan presented the current status of OpenSCENARIO and the potential use cases linked to safety assurance of automated driving. The plans to develop and commit a “xosc interface” is postponed, until the current activities on the framework, the basic modules and the “PCM re-simulation use case” are finished.

The BMW driven Open Simulation Interface project has a first release of this interface on GitHub <https://github.com/OpenSimulationInterface/open-simulation-interface>.

A: Timo investigates, if the currently developed components for the use of OSI in openPASS can be committed to the open source version, too.

#### 4. Discussion on road map for next steps

The group discussed the approach how the goal – usability of openPASS for a wider group – can be reached. The key idea is that everyone with certain prerequisites (data, some added modules) can do certain simulations with openPASS – without the need to invest much effort into basic functionalities.

Jan suggested – in addition to the “PCM re-simulation“ use case – the group should draft a roadmap of further open source modules needed for certain basic stochastic simulation use cases, e. g. car-to-car rear end scenarios in longitudinal motorway traffic or crossing pedestrians on a generic urban road.

Lei highlighted the need for an agile development process for modules: the Architecture Committee defines functional requirements, the Service Provider members propose tasks that are then developed. However, in all cases, the group agreed to make use of the Tuleap trackers for WG tasks and Dev tasks.

Ralph explained the current openMDM approach which means that each Driver member transfers 40,000 \$ to the Eclipse office which contracts software architects and developers according to the needs of the WG. This required the WG to adapt the Charter.

A: All openPASS Driver members check how this approach was internally handled for openMDM.

A: All members sign up to Tuleap and update the trackers according to the status of their activities.

#### 5. Quality Committee

The group discussed the scope of this committee, hence whether the quality is limited to code / software quality or if the group should further define quality criteria for modules used in openPASS.

Ralph suggested the following steps based on the experience of other WGs and projects:

- First, define requirements based on issues linked to the initial commit.
- Then, define a good and self-explaining documentation
- Define deliverables and test cases to check if the delivered code runs
- Unit tests: start with soft requirements and then work with C++ experts who define unit tests

The group discussed the steps and agreed with in principle, but it is open who spends the effort to define tests and to run them.

A: Jan will ask VW GoA if they could lead the Quality Committee since they currently do not have a lead in one of the committees.

## 6. openPASS website

The openPASS website will be a Drupal instance and hosted under [www.openpass.org](http://www.openpass.org). It should contain news, dates, Tweets, blogs, a section on technology, related projects (documentation downloads). The plan is to have the website ready by the first release of “openPASS version 1”.

A: Jan will add the website workshop to the WG task tracker in Tuleap.

Attachment 1:

Agenda

Topic	Time	Addition
Working Group Administration	10:00 - 10:45	
Roadmap for GUI Plug-Ins and open source modules	10:45-11:45	How can we live up to our claim “everyone with certain prerequisites can do this simulation with openPASS”
Update on OpenScenario and OSI	11:45-12:15	OpenScenario (Jan) and Open Simulation Interface (Lei/Timo)
Definition of Quality Comittee scope	12:15-13:00	e.g. Unit tests, coding guideline vs. assessment methodology, etc.
Lunch	13:00-14:00	
openPASS Roadmap	14:00-15:00	Announcement to openPASS mailing list
openPASS website / publicity	15:00-16:00	In cooperation with Eclipse
openPASS glossary	16:00-16:45	Definition of a system, component, module, etc.
Planning next meeting	16:45-17:00	