

openPASS Steering Committee Workshop

Meeting date: 03 December 2019

Location: Sindelfingen, Daimler AG

Keeper of the minutes: Tuan Duong Quang, TÜV SÜD + Jan Dobberstein, Mercedes Benz AG on behalf of Daimler TSS

Participants:

Name	Company	Participation
Arun Das	BMW Group	X
Manel Hammouda	BMW Group	X
Thomas Platzer	BMW Group	
Jan Dobberstein	Mercedes Benz AG on behalf of Daimler TSS	X
Per Lewerenz	Mercedes Benz AG on behalf of Daimler TSS	X
Dr. Daniel Schmidt	Robert Bosch GmbH	X
Tuan Duong Quang	TÜV SÜD Auto Service GmbH	X
Alexander Eliseev	TÜV SÜD Auto Service GmbH	X
Lukas Stark	VWGoA	X
Dr. Stefan Schoenawa	VWGoA	
Dr. Dmitri Fix	ITK Engineering GmbH	
Fabian Gottwald	EDAG on behalf of VWGoA	
Jorge Lorente Mallada	Toyota Motor Europe NV/SA	

Topics:

Roadmap:

Pull-Request from in-tech was confirmed by SC. The next step is the adaptation of the GUI by VWGoA to the new simulation core which will take approximately one week. After that Dmitri will remove PCM simulation related source code. A running version of the PCM use case will be placed in a separate branch until the use case is fully integrated into the scenario-based simulation kernel. Version 0.6 will be released before Christmas.

New repository structure is attached on <https://wiki.eclipse.org/openPASS-WG>

Use Cases of PCM:

Guests for this agenda point: Martin Schachner, Corina Klug, TU Graz via Skype

Goal: understand different perspectives on use case of re-simulation in openPASS – including the insights from WG external openPASS user of the “PCM use case”

- As an introduction to the discussion, Jan showed the way from data to “PCM GUI”. In the early stage of openPASS, the implementation of a “rateEFFECT-like” approach to use the PCM data was a fundamental goal of the group. Hence, the concept of modularity was extended to allowing different “simulation worlds”, so a PCM-specific world and PCM-specific methods in the AgentInterface were introduced to incorporate the line-based road environment data from accident sketches. Additional features (position variation, velocity scaling, re-simulation of configs as input data) were developed by ITK, beyond loading from a MDB and providing original trajectories.
- TU Graz showed their approach for pre-crash assessment in the EU project VIRTUAL based on the “PCM use case”

- Lukas (VWGoA) showed some preliminary simulations of PCM-like trajectories in the “OSI World”.

Discussion: what are the requirements towards openPASS and how would ideal input data from accident research look like (xodr-based road/environment description)?

Decision: future openPASS planning should focus on integration of PCM components/functionality into “OSI use case” (use OSI_World, XOSC configs for vehicles and trajectories, existing concept of TrajectoryFollower).

The short-term cons (data contains line-based road description => no structured road environment available) are acceptable.

TU Graz will get in touch with openPASS partners to review alternative approaches of using “OSI use case” for their simulations.

Prioritization and release planning of the high-level targets:

	Short Term (0.7/ 0.8)	Mid Term (0.9/ 1.0)	Long Term (1.0+)
Concept	#1205 (CI)* #1206 (observer)* # 1207 (tests) #1209 (project directory structure)	#1200 (installer) #1225 (agent definition) #939/1203 (visualisation) #1208 (in parts) #1215 (PCM)	#1229 (standards) #1211 (pedestrians) #1212 (cyclists) #1171 (report) #1227 (visualisation) #1228 (simulation pause&restart)
Ongoing	#1202 (criticality) #1219/1223 (crash detection) #940 (documentation) #1221/1222/1218 (driver model) #1208 (in parts) #1210 (urban environments) #1213/1217 (spawner)	#1226 (system editor)	

*crucial targets

V0.6 done:

#1184
#1078
#1214
#1079

Further refinement on the high-level targets will be done in the requirement teams.

Renaming openPASS:

There will be no renaming of openPASS. There should be a good description on the webpage about the vision, goals and target systems of openPASS.

Miscellaneous:

Alexander Eliseev joins the openPASS working group as a new member from TÜV SÜD.

Meeting minutes can be found here: <https://wiki.eclipse.org/openPASS-WG>