

openPASS Presentation of spawner and observer

Meeting date: 6th July 2020

Location: MS Teams

Keeper of the minutes: Tuan Duong Quang, TÜV SÜD

Participants:

Name	Company	Participation
Arun Das	BMW Group	X
Manel Hammouda	BMW Group	
Thomas Platzter	BMW Group	X
Paul Buck	Eclipse Foundation	
Fabian Gottwald	EDAG on behalf of VWGoA	
René Paris	intech on behalf of BMW	
Reinhard Biegel	intech on behalf of BMW	
Dr. Dmitri Fix	ITK Engineering GmbH	X
Ina Lorenz	ITK Engineering GmbH	X
Jan Dobberstein	Mercedes Benz AG on behalf of Daimler TSS	
Per Lewerenz	Mercedes Benz AG on behalf of Daimler TSS	
Mark Gielow	Mercedes Benz AG on behalf of Daimler TSS	
Dr. Daniel Schmidt	Robert Bosch GmbH	X
Jorge Lorente Mallada	Toyota Motor Europe NV/SA	
Tuan Duong Quang	TÜV SÜD Auto Service GmbH	
Alexander Eliseev	TÜV SÜD Auto Service GmbH	
Emmeram Klotz	TÜV SÜD Auto Service GmbH	X
Dr. Stefan Schoenawa	VW AG on behalf of VW GoA	
Gwendal Lucas	VW AG on behalf of BW GoA	
Jason Gainey	VWGoA	

BMW has presented their developments on their spawner and observer. Both developments will be part of the next release 0.7. The slides to their presentation can be found [here](#).

Spawner

The new spawner is functioning according to the flowchart on slide 2. The spawner always needs as information the velocity of the spawning vehicle and Tgap. Homogeneity is the factor how the velocity is changing over the lanes. Homogeneity of 1 means that there are no changes of the velocity over the lanes. The homogeneity is preconfigured to 1.

The parameter “traffic density” does not exist anymore. The larger Tgap the lower is the traffic density.

All 3 user stories in Tuleap regarding Spawner have been implemented.

Observer

The new Observer can have any number of observation libraries. Compared to the last version 0.6 the way how the Observer is receiving data has been changes. ITK will duplicate that part and will make some adjustments such that the visualization plugin and the time plots are compatible with the new observer. Both versions are kept.

Furthermore, on the slides it is explained how information can be written to the data store and how information can be read from the data store.

The ObservationInterface has now changed to ModelInterface. There is no linkage between ModelInterface and the observer.

The Observer is generic. No third-party contributions were used.

Miscellaneous

Based on that presentation ITK will review the PR from BMW. ITK and in-tech will have therefore a bilateral communication.

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