

PROPOSAL TO OPENPASS SC IMPROVING OPENPASS WEBPAGE

[HTTPS://OPENPASS.ECLIPSE.ORG](https://openpass.eclipse.org)

openPASS

Different domains

- ▶ **main webpage** - <https://openpass.eclipse.org/>
(first entry by google search „openpass“)
- ▶ Wiki - <https://wiki.eclipse.org/OpenPASS-WG>
(currently used as main openpass webpage)
- ▶ sim@openPASS - <https://projects.eclipse.org/projects/technology.simopenpass>
- ▶ Bugzilla - <https://bugs.eclipse.org/bugs/describecomponents.cgi?product=Simopenpass>
- ▶ Tuleap - <https://tuleap.eclipse.org/projects/openpass>
- ▶ Git - <https://git.eclipse.org/c/simopenpass/simopenpass.git/>

openPASS

Webpage as 1st level of documentation

★ Added based on inputs from SC-Meeting Garching 23.07.2018

DRAFT

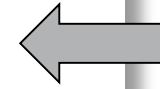
structure of „openPASS documentation“

1. Getting started	most relevant for each “newbie”
<ol style="list-style-type: none">1. Where to get Information?2. Where to get the sources?3. How to build the application?	<i>information already at least partly available</i>
2. User Guide	most relevant for each user
<ol style="list-style-type: none">1. Covered Use cases2. How to use the application3. Application output	<i>divided in two Parts: General/Use Case specific</i>
3. Tutorials	most relevant for each user
★ <ol style="list-style-type: none">1. Setup of the Use Case2. Options within the Use Case3. Outputs of the Use Case	<i>Use Case specific User Guide</i>
4. Architecture Description	most relevant for AC-Members/developers
<ol style="list-style-type: none">1. Structure of the application?2. Description of Framework elements3. Description of the Modules	<i>already at least partly available</i>
	Coding-guidelines
5. Source Code Description	most relevant for developers
<ol style="list-style-type: none">1. Description of classes2. Description of attributes3. Description of functions	<i>already at least partly available</i>
6. Appendix	most relevant for every user/member
★ <ol style="list-style-type: none">1. Licenses2. Wording / Global Definitions	<i>information already at least partly available</i>

openPASS Doku

openPASS Webpage
<https://openpass.eclipse.org/>

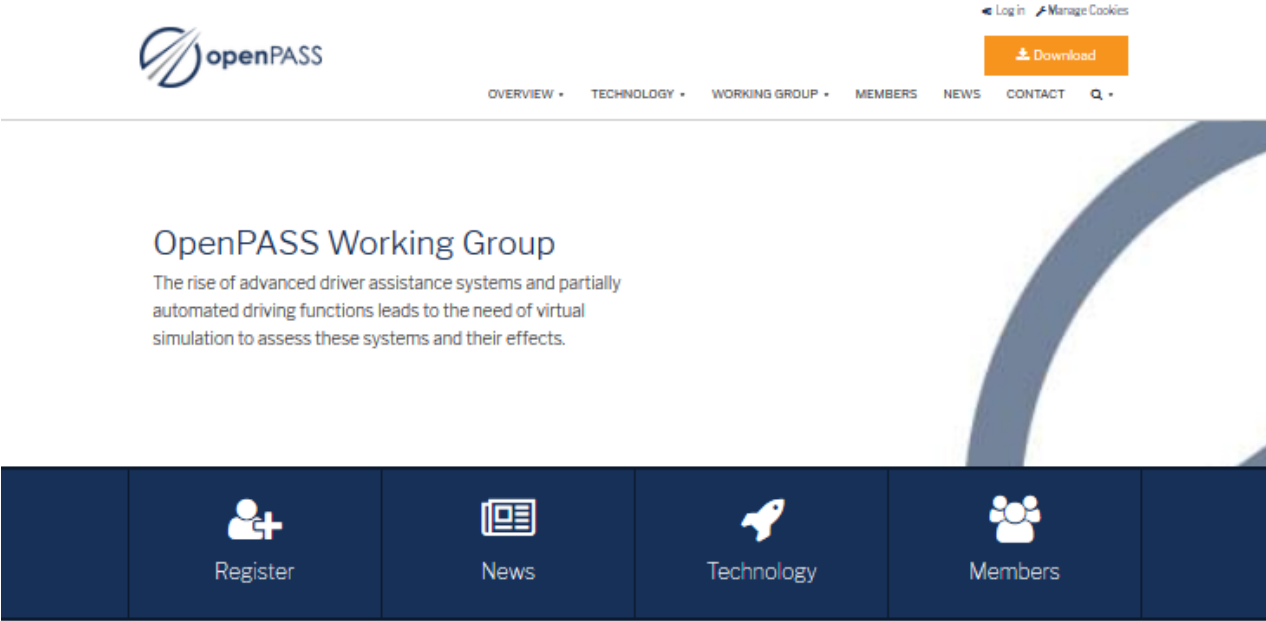
openPASS Wiki



suggestions on
“1. Getting started”

openPASS: main webpage – current status

<https://openpass.eclipse.org>



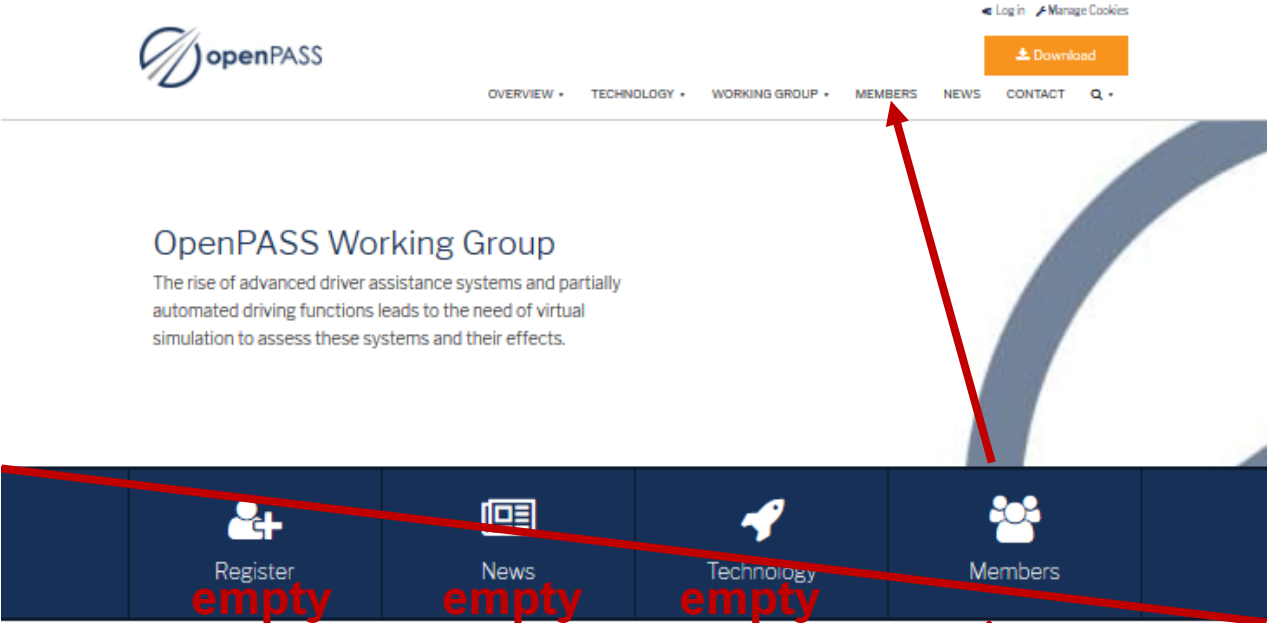
Our Members



[More members](#)

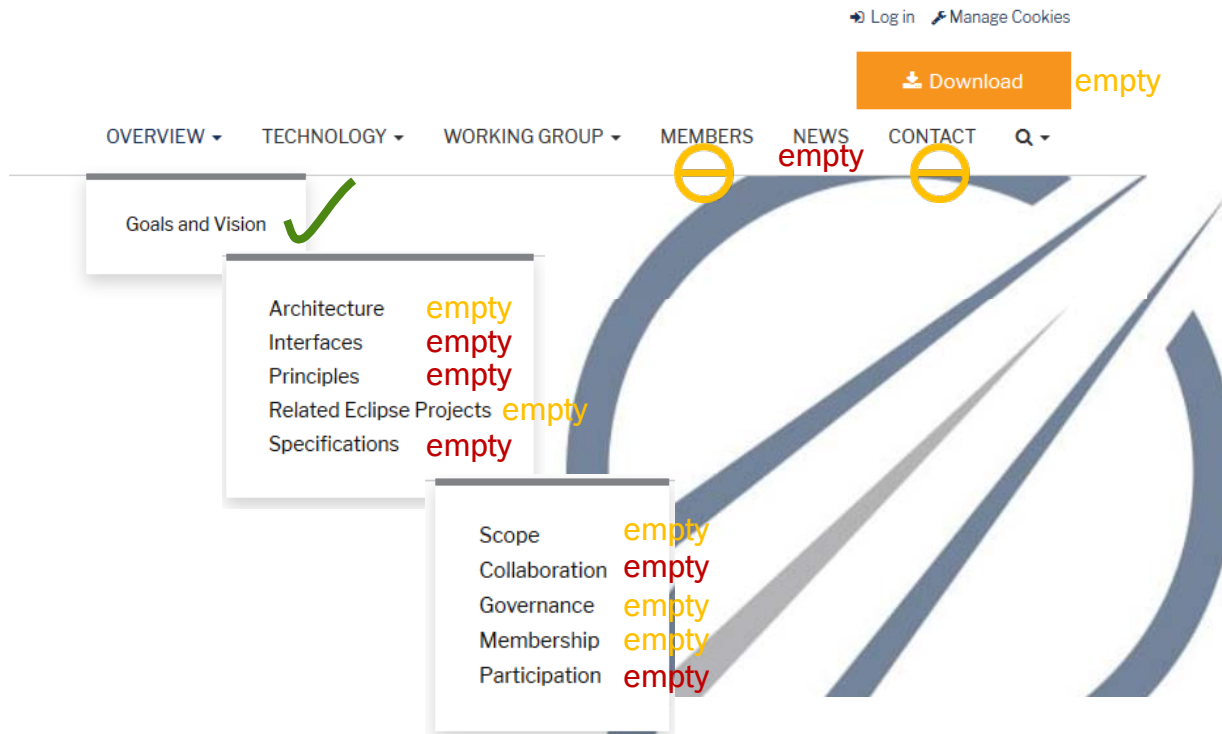
openPASS: main webpage – suggestion

<https://openpass.eclipse.org>



openPASS: main webpage – 1st suggestions

Overview



easy to improve:

- delete all **empty** links
- members: list all members
- contact: additional simopenpass-dev@eclipse.org mailing list
- Download: link to <https://git.eclipse.org/c/simopenpass/simopenpass.git/>
- Architecture: copy&paste from <https://projects.eclipse.org/projects/technology.simopenpass>
- Related Eclipse Projects: link to sim@openpass <https://projects.eclipse.org/projects/technology.simopenpass>
- Scope: copy&paste from <https://projects.eclipse.org/projects/technology.simopenpass/governance>
- Governance:
 - SC & AC members
- Membership
 - How to apply to WG
 - WG charter & WG Participation Agreement

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Members



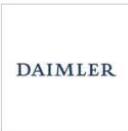

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Members

Driver Member



Service Provider Member



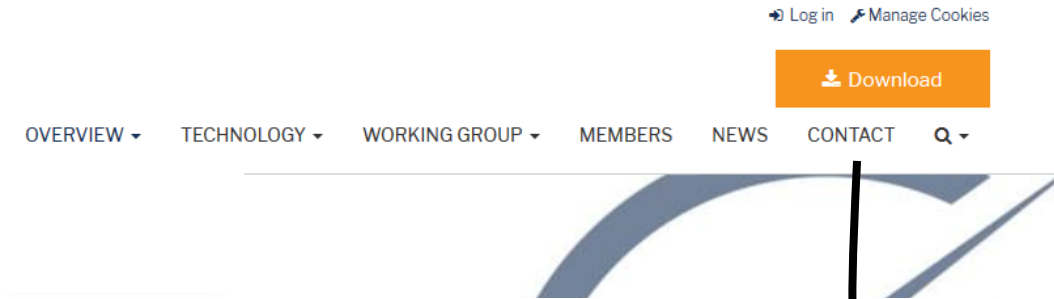
Current Members

Company	Role
BMW Group	Driver Member
Daimler AG	Driver Member
ITK-Engineering GmbH	Service Provider
Robert Bosch GmbH	Driver Member
Toyota Europe	User Member
TÜV Süd AG	Driver Member
Volkswagen of America	Driver Member

+ logo
+ link to company webpages

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Contact



Contact

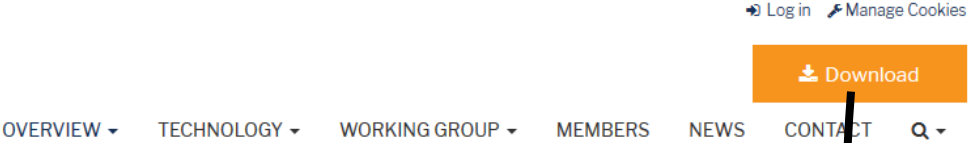
For more information, contact or subscribe to the [public WG mailing list](#).

For the Eclipse Foundation:
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Managing Director
Office: +49 6251 8606413
Mail: ralph.mueller@eclipse.org

add
simopenpass-dev@eclipse.org
mailing list

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Download



link to:

<https://www.eclipse.org/downloads/>

add link to

<https://git.eclipse.org/c/simopenpass/simopenpass.git/>

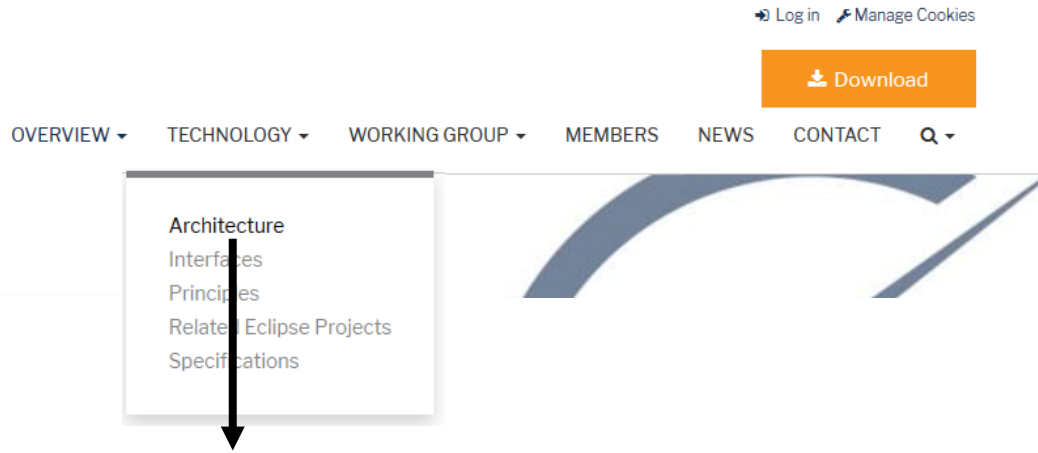
Branch	Commit message	Author	Age
GUI_Documentation	WVGA Commit for GUI Documentation	Jasen Gaine	3 weeks
intech	Fix missing renames and update license headers in SpawnPoint_OSI	Biegel Reinhard	5 months
master	Documentation framework	Dmitri Fix	8 weeks

Tag	Download	Author	Age
openPASS_0.5	simopenpass-openPASS_0.5.tar.gz; simopenpass-openPASS_0.5.tar.xz; simopenpass-openPASS_0.5.zip	dfix	13 months

Age	Commit message	Author	Files	Lines
2019-01-14	Documentation framework HEAD master	Dmitri Fix	73	-0/+18272
2019-01-14	PCI4 Variation	Dmitri Fix	59	-337/+2504
2019-01-14	Add modern component templates	Dmitri Fix	14	-0/+1204
2018-10-30	Cosmetics in Global pr	Dmitri Fix	1	-2/+2
2018-10-30	Add unit tests	Dmitri Fix	17	-0/+1402
2018-10-29	Extend AgentInterface with GetVisibilityToNearestAgentViewRange	Dmitri Fix	480	-7053/+9448
2018-10-23	#1051	Dmitri Fix	688	-72808/+72808
2018-10-17	Merge branch 'intech'	Biegel Reinhard	126	-87/+14556
2018-10-16	Fix missing renames and update license headers in SpawnPoint_OSI intech	Biegel Reinhard	8	-96/+110
2018-10-16	Add SpawnPoint_OSI	Biegel Reinhard	9	-15/+418
[...]				

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Architecture



copy&paste from

<https://projects.eclipse.org/projects/technology.simoopenpass>

Eclipse sim@openPASS

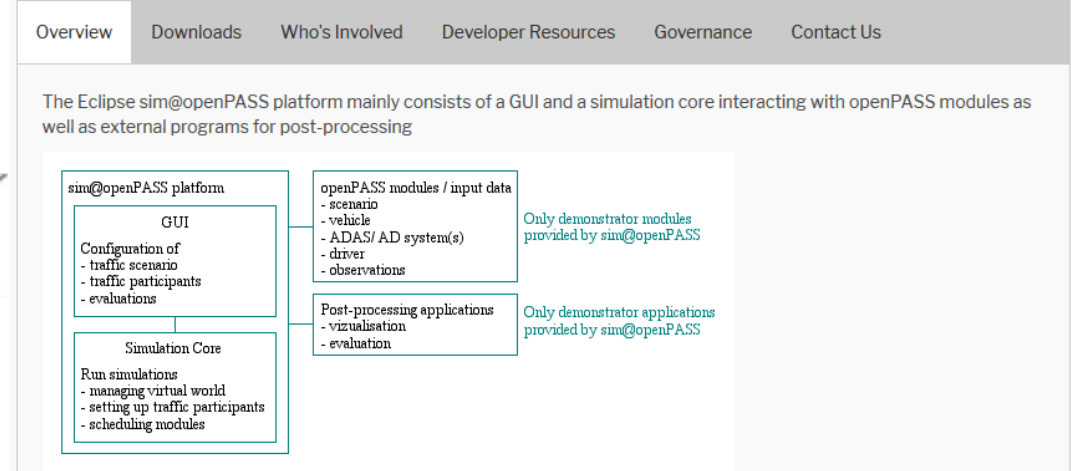


Figure 1: sim@openPASS top-level architecture

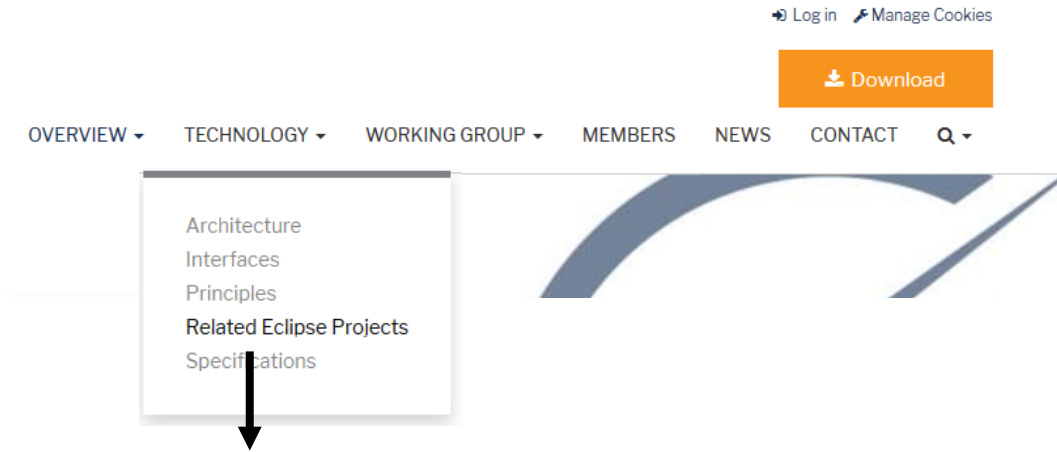
In the sim@openPASS GUI, the users will conveniently select traffic scenarios, traffic participants (including vehicles, drivers and systems to be tested) as well as post-processing of the simulation results. The GUI will access module information and enables the parametrization and linking of the comprised models. Furthermore, scenarios available in the **OpenDrive** format or **OpenScenario** format can be loaded. The entire configuration of the simulation will be saved in an xml-format which allows re-simulation or batch processing.

The simulation core will import the configuration, load the configured modules and run the specified number of multi-agent simulations. This mainly consists of managing the virtual world, setting up the traffic participants by instantiating their modules as well as scheduling and calling the module interface functions. Additionally, the distribution of simulations over network will be available; this is important if a high number of stochastically varied situations should be simulated, e.g. in a Monte-Carlo simulation.

The openPASS modules will contain the entire functionality of the traffic participants. SpawnPoint modules are responsible for the creation of new traffic participants. Component modules comprise models assigned to the traffic participants, hence including the human behavior and/or system behavior. A general wrapper module to incorporate models using the **FMI standard** will be provided as one of the demonstrator modules. Observation modules observe the traffic scenario and log general or specific simulation results.

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Related Eclipse Projects



only one openPASS-WG related project: sim@openPASS

link to sim@openpass

<https://projects.eclipse.org/projects/technology.simopenpass>

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Scope



- copy&paste from <https://projects.eclipse.org/projects/technology.simopenpass/governance>



ECLIPSE FOUNDATION

Members Working Groups Projects

Home / Projects / Eclipse Technology / Eclipse sim@openPASS / Governance

Eclipse sim@openPASS

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Scope:
Eclipse sim@openPASS provides a software platform that enables the simulation of traffic situations to predict the real-world effectiveness of advanced driver assistance systems or automated driving functions.

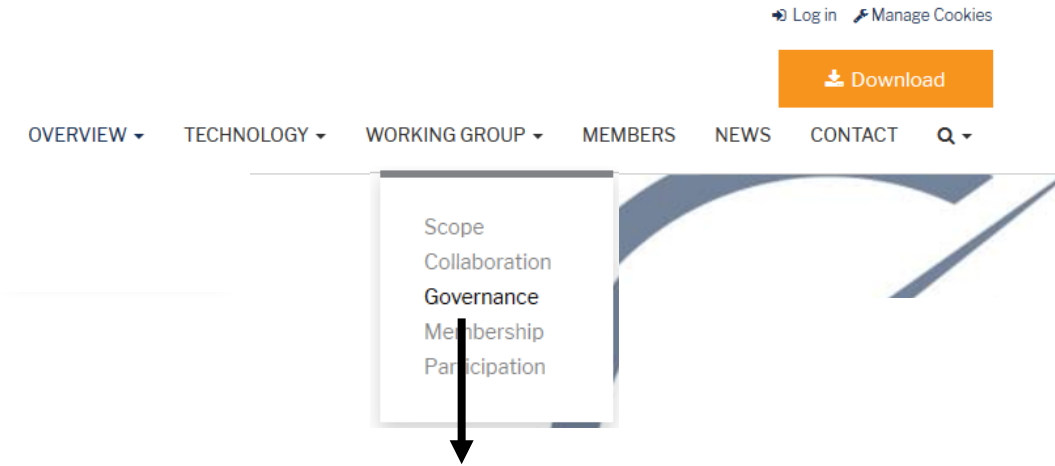
Safety relevant aspects of traffic, such as infrastructural elements or behavioral characteristics, are investigated with this platform. The platform is able to run entirely flexible multi-agent simulations which include stochastic variations as well as reproducibility. The flexibility is achieved by outsourcing to dynamic libraries (so called modules) all models defining the traffic scenario or behavior of traffic participants. Additionally to the platform, demonstrator modules are provided, which comprise simple traffic situations and behaviors of traffic participants as well as a collision model to answer basic research questions. Furthermore, demonstrator applications will be given to post process the simulation results. sim@openPASS users are able to incorporate their own developed modules and post processing applications; this allows them to answer a wide variety of their specific research questions. These questions are related to development, testing, and rating of vehicle functions.

Possible users can be automotive OEMs, suppliers, public transport authorities, consumer protection organizations, insurance companies, academia, and legislation.

The platform is compatible with standards such as OpenDrive, OpenScenario and FMI. This project is part of the Eclipse Working Group openPASS (https://www.eclipse.org/org/workinggroups/openpasswg_charter.php).

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Governance



- list SC and AC members
- to contact SC write to openpass-sc-bounces@eclipse.org

Steering Committee

Speaker of the Steering Committee: Jan Dobberstein

- BMW Group, Lei Wang
- Daimler AG, Jan Dobberstein
- ITK-Engineering GmbH, Alexander Prah
- Robert Bosch GmbH, Daniel Schmidt
- TÜV Süd AG, Dr. Housseem Abdellatif
- Volkswagen Group of America, Inc., Jason Gainey

Architecture Committee

Speaker of the Architecture Committee: Katharina Findling

- BMW Group, Katharina Findling
- Daimler AG, Jan Dobberstein
- Robert Bosch GmbH, Daniel Schmidt
- TÜV Süd AG, Christian Ghandt
- Volkswagen Group of America, Inc., Jason Gainey
- ITK-Engineering GmbH, Alexander Prah (as project Leader of sim@OpenPASS)

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Governance



- How to apply to WG?
→ copy&paste from
https://wiki.eclipse.org/OpenPASS-WG#How_to_participate
- WG charter & WG Participation Agreement

Resources

Eclipse openPASS WG Charter

Eclipse Working Group Participation Agreement

How to participate

Any company being at least an Eclipse Solution Member can participate in document and send it to the Eclipse Management Organisation.