

ASAM OpenSCENARIO 1.x Proposal Workshop

Date: 25.03.2020 Time: 09:00 – 16:30 CET

All material will be made available to everyone after the workshop

Agenda

09:00 - 09:15	Introduction to ASAM	Klaus Estenfeld (ASAM)
09:15 - 09:30	OpenSCENARIO Alignment & Looking Forward	Ben Engel (ASAM)
09:30 - 10:00	Transfer Project Summary	Ludwig Friedmann (BMW)
10:00 - 11:00	Project Proposal Review	Ludwig Friedmann (BMW)
11:00 - 12:00	Runtime Improvements	Andreas Hege (RAC)
12:00 - 13:00	Break	
13:00 - 14:00	Review and categorization of current Bugzilla items	All
14:00 - 15:00	Discussion panels (based on Bugzilla items)	All
15:00 - 16:00	Discussion summaries	All
16:00 - 16:30	Wrap up	Ben Engel (ASAM)



ASAM OpenSCENARIO Looking Forward...

Ben Engel ASAM e.V. 18.03.2020 Webinar





Association for Standardization of Automation and Measuring Systems

Goal Recap

OpenX Standards to enable and support the collaborative development of safe and regulated autonomous functionality

OpenSCENARIO

Fully describe the content of a driving situation (in part by interfacing with other standards or models)



OpenSCENARIO Project Overview

Transfer project

- Move the content of existing documentation to ASAM
- Remove ambiguities
- Extend documentation
- Expected output → New standard version 1.0.0

2.0 Concept project

- Address current and upcoming requirements on OpenSCENARIO
- Expected output \rightarrow Document detailing the concepts to be added to the standard



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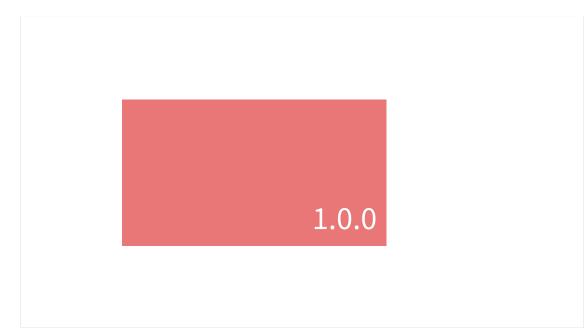
Featureset & availability



Featureset of OpenSCENARIO

Featureset -> "What can it describe and how?"

- What: The use cases covered by the format, i.e. the domain coverage
- How: What mechanics can I use to describe the what?





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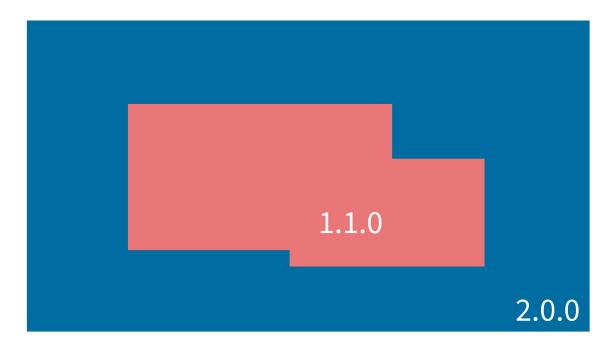




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- How: What mechanics can I use to describe the what?
- The OSC 1.x featureset is a subset of 2.x
- 2.x provides:
 - 1. more "how" \rightarrow DSL
 - 2. more domain coverage \rightarrow more use cases





What is the difference between 1.x and 2.x?

Featureset & availability

1.x

- Support concrete descriptions of scenarios
- XML format based on a UML model
- Provides large number of actions to describe dynamic content
- A solution that is usable now



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Featureset & availability

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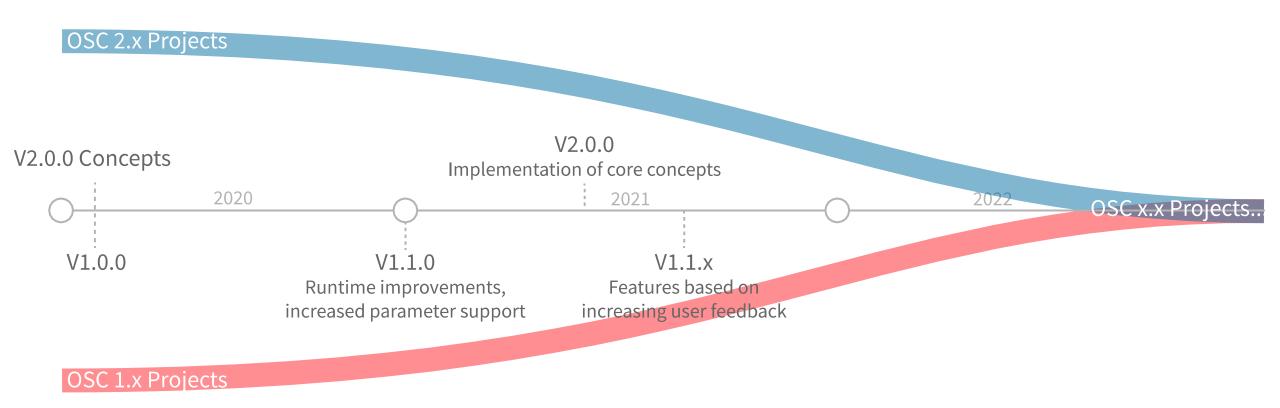
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2.0

- Support multiple abstraction levels for describing scenarios
- Domain Specific Language (DSL)
- Increased functionality (domain model, library concepts, etc..)
- Not yet in development

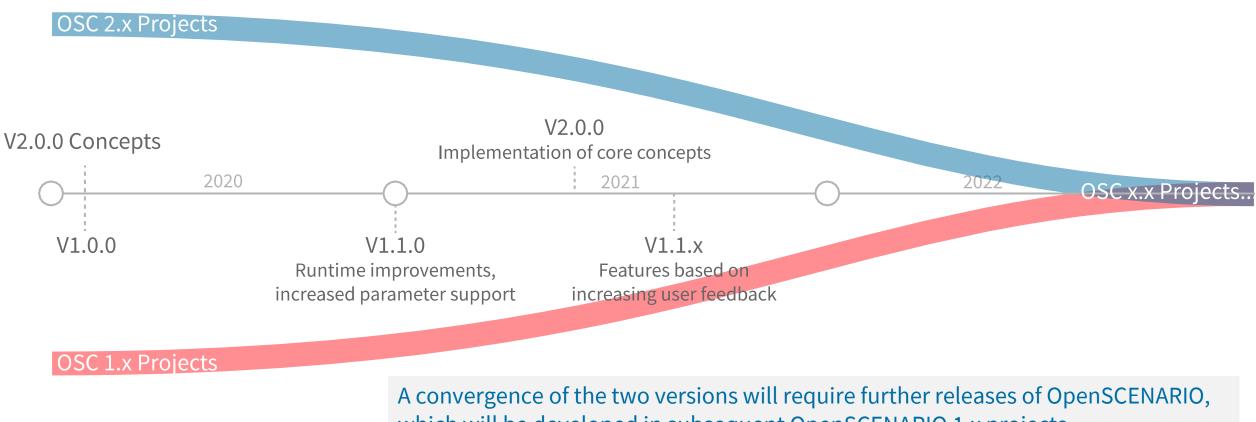


Roadmap OpenSCENARIO





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which will be developed in subsequent OpenSCENARIO 1.x projects.





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Very high member demand for both...



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Very high member demand for both...

BUT

ASAM will ensure that both project tracks converge to one version



OpenSCENARIO: Alignment & Achieving Convergence...

- Seamless transition between both versions:
 - 1. The run time behavior of any scenario converted between the latest 1.x and 2.0 OSC languages shall be the same.
 - Both projects shall ensure an up-to-date ruleset for a migration path from 1.x to 2.0.
 → The first release of such a ruleset shall be with the first release of 2.0.0
- Ensure 1.x remains a subset of 2.0

 \rightarrow New concepts introduced in 1.x must be sychronised with developments in the 2.0 project.

Clear convergence roadmap needs to be established
 → Target for roadmap: Q1 2021



Status Updates and Interacting with the Projects

- In contrast to the previous projects, ASAM will provide regular updates on the projects:
 - A high-level overview of the project status
 - Technical information on features, document snippets, etc. to provide insight into the technical development of the standards. These will not be full specification documents or drafts.
- Anyone will be able to open issues via the ASAM repositories to provide feedback or start a discussion
 → More information to follow closer to project start



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