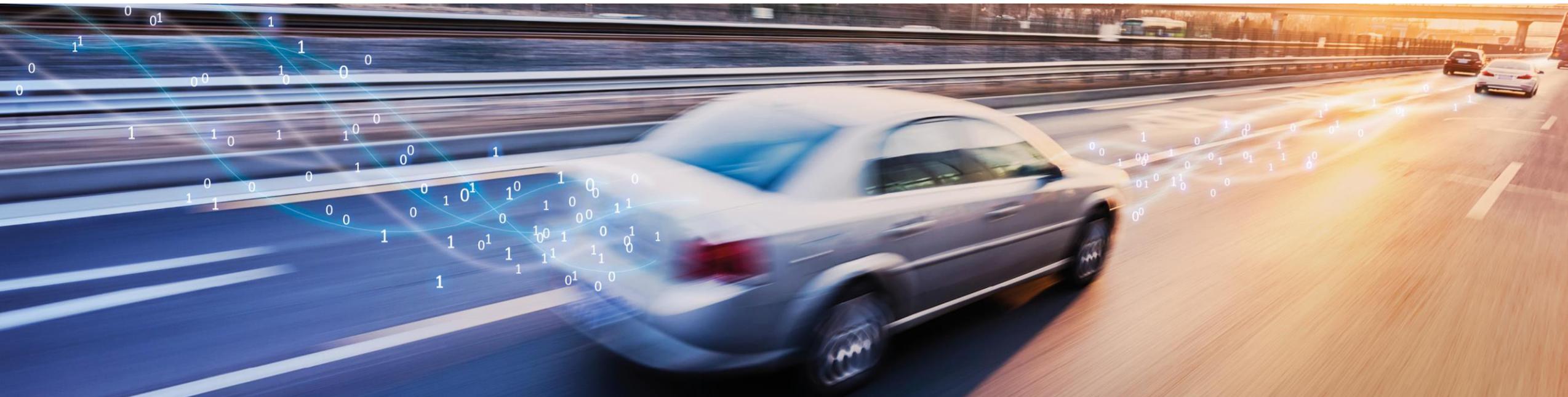


ASAM OpenDRIVE 1.6.1

Release Presentation

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Hexagon

17th March 2021
Vagen

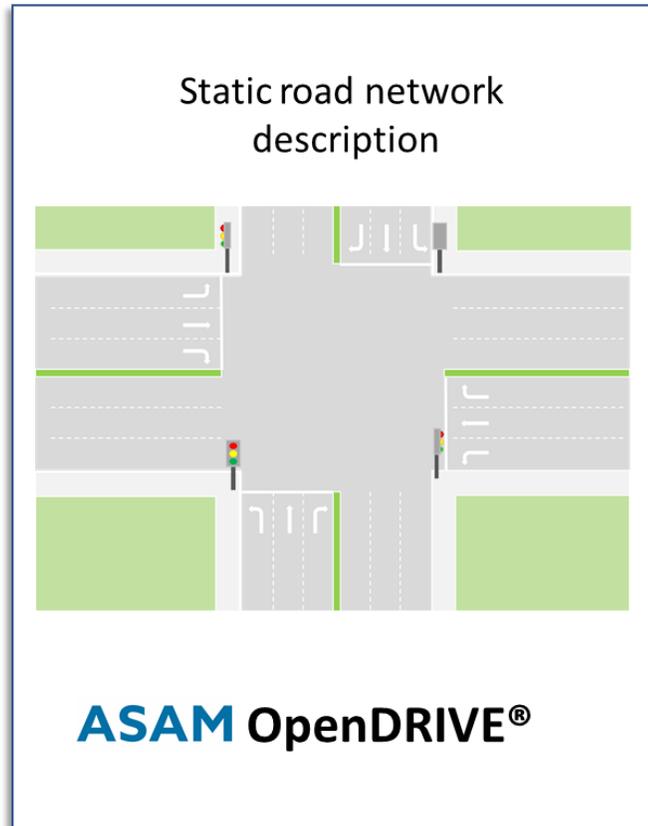


Agenda

- 1 Agenda**
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Motivation of OpenDRIVE 1.6.1

Aim to improve the OpenDrive 1.6.0



- ASAM OpenDRIVE provides the exchange format specification to describe static road networks for driving simulation applications.
- The primary task of ASAM OpenDRIVE is the road description including objects along the road.
- The OpenDRIVE Specification covers the description on how to model e.g. roads, lanes, junctions.
- Dynamic content like Cars and pedestrians are not covered by ASAM OpenDRIVE.

What's new OpenDRIVE 1.6.1

- As people started using OpenDRIVE 1.6 issues were added in the system.
 - 38 issues were solved in 1.6.1 and
 - 18 issues were moved to 1.7/1.8
- Integration of OpenCRG
 - At the time we transferred OpenDRIVE 1.5 to OpenDRIVE 1.6 we had only little know how about OpenCRG. So, it was decided at the time not to rewrite the content regarding OpenCRG we just adapted the formatting.
 - By now we know a lot more regarding the relationship between OpenCRG and OpenDRIVE. Therefore, this chapter was completely rewritten for OpenDRIVE 1.6.1.
 - Now there is a much better overview of the usage of OpenCRG in OpenDRIVE.
 - We also identified use cases for OpenCRG within OpenDRIVE that are currently missing. They are planned for OpenDRIVE 1.8
- Input from new Members
 - We had 2 members who started working with OpenDRIVE after OpenDRIVE 1.6 was released. Their input and questions were very valuable to improving the document.

Backward Compatibility

- OpenDRIVE 1.6.1 is backward compatible to OpenDRIVE 1.4 and OpenDRIVE 1.5 OpenDRIVE 1.6 xml files (not the schema files, schema files only for 1.6).

Deliverables

Documents

- OpenDRIVE 1.6.1 Specification:
 - HTML

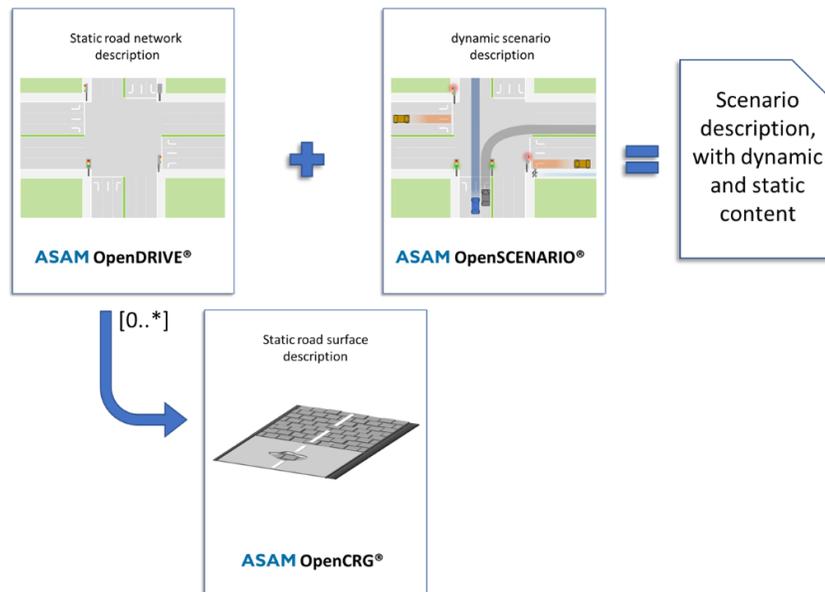
Supplementary Files

- xsd schemas
- UML Model as html Export
- Example and use case files
- OpenDRIVE Signal Catalog

Relation to other Standards

Relation of ASAM OpenDRIVE to OpenCRG and OpenSCENARIO

- ASAM OpenDRIVE defines a storage format for the static description of road networks.
- In combination with ASAM OpenCRG it is possible to add very detailed road surface descriptions to the road network.
- To add dynamic content ASAM OpenSCENARIO is needed.



Combined all three standards provide a scenario-driven description of traffic simulation that contains static and dynamic content.