ASAM OpenSCENARIO Proposal Workshop
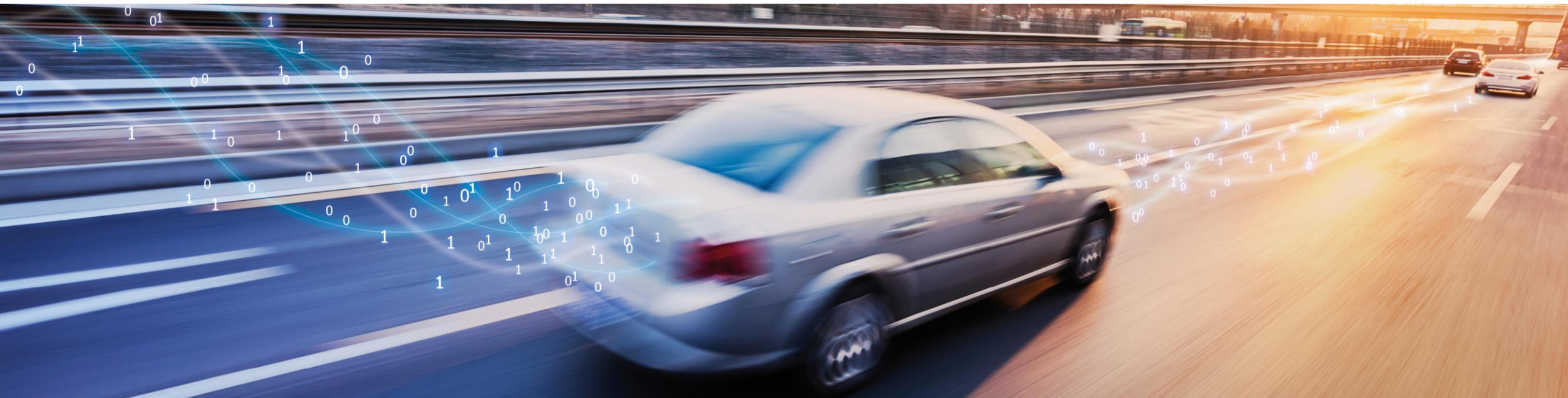## Overview OSC 1

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Online

Association for Standardization of
Automation and Measuring Systems

Agenda

1	Where do we stand

2	Open issues

3	Scope for upcoming project

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Where do we stand? - New features in OSC 1.2

Support for virtual sensor recognition algorithm testing

- Reference to sky & illumination image

- More options for custom properties

Support for sensor error injection

- False positive / false negative for entities

Introduction of variables

- Separated concept from parameters

- Runtime changes & external access

Support for multiple controllers

- Lateral/longitudinal

- Two new controller types (animation / light)

Improvement in controller overrides

- Physical values

- Dynamic limitations (max rate, max torque)

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Where do we stand? - New features in OSC 1.2

Vehicle role

- police, ambulance...

Light action

- Vehicle lights

Animation action

- Vehicle doors & pedestrian motions
- Reference to 3d animation files

Speed profile action

- For modelling of realistic speed profiles

Extended Traffic Swarm action

- Velocity range
- Direction of travel

Speed & acceleration condition

- per dimension (lateral, longitudinal, both)

Clearance condition

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Where do we stand? - Other changes in OSC 1.2

Clarifications

- Coordinate systems & rotations
- Position types (esp. Road/Lane)
- Relative and absolute orientation in positions + defaults
- Speed (longitudinal/lateral domain)
- Distance calculations across several roads
- Route calculation
- Route assignment
- Closed trajectory
- Interfacing between scenario and test case / runtime environment
- Dynamic constraints of entities in actions
- Action prerequisites
- Add / remove entity actions

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Where do we stand? - Other changes in OSC 1.2

Fixes

- integer -> int
- Gear number: double -> Auto: enum & Manual: int
- Overwrite -> override
- State machine states (standby vs. complete)
- GeoPosition in degree

Harmonization

- Introduced fractional cloud cover (OSI)
- Traffic signal controller (OpenDRIVE)

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Open issues

~ 80 open issues at end of last project in March

~ 40 issues created since then

currently ~120 open issues

https://code.asam.net/simulation/openscenario-1/openscenario/-/issues

Main topics:

- Clarifications on actions, conditions & entity properties

- Feature wishes for new actions, conditions

- Bug reports (spelling, formatting)

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Scope for upcoming project

- Support driving simulator and scenario editor vendors to make their tools compatible to the ASAM OpenSCENARIO 1 standard.

- Support test creators in using the OSC1 standard to create test scenarios

- Finish clarifications on LateralDistanceAction ([#294](#)), DynamicsShape definitions ([#415)](#), entity performance influence on action execution ([#319](#)) and on Override controller parameters ([#11)](#)

- Finish new "OrientationCondition" ([#417](#))

- Integrate results of "Dynamic traffic signs" initiative.

- Prioritize newly created issues for current problems

- Add all new features also to the migration path from OSC 1 to OSC 2

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Scope for upcoming project

Team input

- Clothoids trajectory for modelling of NCAP scenarios #506
- Modelling of trucks and trailers #489
- Parking actions
- Modelling of swerving in the lane
- Modelling of reaching / stopping at a position

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