ASAM OpenDRIVE 1.8.0
Request for Release

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New content of ASAM OpenDRIVE 1.8

Junction Guidelines

Advantages:
- Better interchange ability of files
- Easier for people to make junctions
New content of ASAM OpenDRIVE 1.8

Slip Lanes:

• new lane type slipLane
• In guideline described where to place junctions
• In guideline described when to use entry and exit

Advantages:
• Better interchange ability of files
• Easier to make junctions with slip lanes
New content of ASAM OpenDRIVE 1.8

TrafficLights and Stop Lines:

- Deprecated physicalPosition from 1.5
- Use current dependency and reference

- Advantages:
  - Easier and identical implementation of traffic
  - Easier sensor detection as traffic light is placed at its actual position
New content of ASAM OpenDRIVE 1.8

Cross Paths

• new kind of (overlapping) road within a junction
• Lane linkages for Pedestrian Simulations
• Use similar traffic light positioning as for vehicles

• Required for Swarm Pedestrian Simulation
New content of ASAM OpenDRIVE 1.8

Crossings outside a common junction

- Railway crossings
- Pedestrian / bike crossings

Required for swarm Pedestrian / Railway Simulation
New content of ASAM OpenDRIVE 1.8

Extended existing junction definition:

- Junction Boundary
- Junction Reference line on which common objects can be placed
- Junction Elevation Grid

Advantages:
- Common Junctions in slopes can now have unique z value at any x, y position.
- No gaps inside junctions anymore
- For simple junctions just need to define 4 points
- Sidewalks fit directly to the “asphalted” Junction area
- Easier sensor detection
New content of ASAM OpenDRIVE 1.8

Objects:

- Description of each object type and subtype
- Defined in which way each object type shall and may be defined
- Added insertion points for better sensor detection

Advantages:
Better interchange ability of files
Better sensor detection
New content of ASAM OpenDRIVE 1.8

Cross Section surface:

• Possible to define lateral profile in roads with changing lane width and offset along $s$
New content of ASAM OpenDRIVE 1.8

Advisory lane

Variable lane directions and types
New content of ASAM OpenDRIVE 1.8

Signal boards

• static board
• variable message board
• multi board with static and dynamic

Dynamic content of those boards are set via OpenSCENARIO
New content of ASAM OpenDRIVE 1.8

Sign semantics and traffic rules

First simple possibilities to describe a semantic of a sign. Not based on visualisation but on implication to traffic behaviour instead.


Advantages:
• Easier and identical implementation of traffic
• Better exchangeability
Changed XSD version in ASAM OpenDRIVE 1.8

Moved from xsd 1.0 to xsd 1.1

Advantages:
- Can include many more tests via schema
- We have a much better overview of which attributes belong to which XML element under which condition

Old object class for `<connection>`

New object class for `<connection>` in a common junction