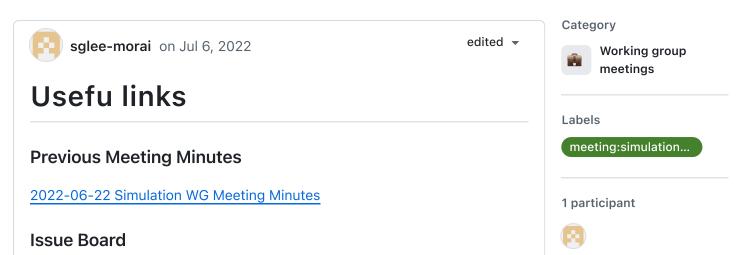


2022-07-06 Simulation Working Group Meeting #2708

sglee-morai started this conversation in Working group meetings

https://github.com/orgs/autowarefoundation/projects/7/views/1



Wiki Pages

• Bus ODD E2E Simualtor Requirements

Recording from the meeting

https://drive.google.com/drive/folders/1IX3h2MLvs3TTncQrnvm3kCNRmbXHyp12

Agenda Summary

- Reviewing in-progress issues
- Bus ODD E2E Simualtor Requirements (wiki) (discussion)
- Sharing Environment Model & Vehicle Model
- Sharing TierIV Simulator with AWF members

Discussions

Metric calculation node development

 temporarily stopped (but can resume working on this if it becomes urgent)

Define Test Procedures to check Simulator's Compatibility with Autoware

Wojciech is going to test run the testing code for TierIV SIM

- The existing issue is about defining itself and since it was already discussed to some part, it is closed.
- Following <u>issue</u> is writing codes according to the test procedure, discussion would be continued in that issue.
- Side Note: Tips for reviewing the PR
 - process breakdown
 - changes in the code would be only inside the forked version of autoware.universe
 - so to have it in one's local machine, one needs to add another remote, which is the forked version, and then pull codes to review from there
 - GitHub CLI & Git Kraken would make this process easier.

Creating a Simulation Environment (ITRI Campus)

- MORAI will update the map
 - i. to make it compatible with HDRP
 - ii. to add more details (e.g. speed bumps)

Creating a Bus Model (ITRI Bus)

- · Creating 3d model is finished, so issue is closed
- Tuning vehicle dynamics is needed, and for that a list of parameters is requested to ITRI
 - list of parameters
- Once values become available, TierIV and MORAI can work on vehicle dynamics (another issue)
- MORAl would like to propose additional parameters or values to describe vehicle dynamics or performance better

Define the requirements for Autoware-compatible simulators

Refer to the comment on the discussion page.

- virtual / ground truth sensors' output format
- to discuss detailed use cases of an E2E simulator: test configurations and scenarios for each use case.

Sharing TierIV Simulator with AWF members

- TierIV will share a new binary version of TierIV SIM and instructions for that
- TierIV SIM that will be shared is compatible with Autoware. Universe from TierIV's repository for now. In the future, it will become compatible with official Autoware. Universe

About MORAI SIM: Drive Update Timeline

- A new stable version (22.R2.0) is released. Based on this one, a new version for AWF is being developed, which will be available by the end of the next week.
- It should have the features listed below.

- o updated ITRI campus map
- o ITRI ADV bus model
- o interface with Autoware. Universe
- o a few sample scenarios (OpenSCENARIO)
- A minimum goal with this version would be, having Autoware. Universe
 SW to run through the ITRI Campus track

[minor issue] Data usage

(Concern Raised Last Week)

- ITRI lanelet2 data
- ITRI 3D model
- Concern: Since TierIV SIM will become open-sourced, if we cannot share lanelet2 & 3D model publicly, it would be difficult for users to use TierIV SIM to test the Autoware stack in the ITRI map.

Action Items

- Action items are described in the comment of each issue
- · Besides that,
 - MORAI would like to propose additional parameters or values to describe vehicle dynamics or performance better



0 comments