

2022-07-06 Simulation Working Group Meeting #2708

sglee-morai started this conversation in **Working group meetings**



sglee-morai on Jul 6, 2022

edited ▾

Usefu links

Previous Meeting Minutes

[2022-06-22 Simulation WG Meeting Minutes](#)

Issue Board

<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/1IX3h2MLvs3TTncQrnvm3kCNRmbXHy12>

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

Category



Working group meetings

Labels

meeting:simulation...

1 participant



- The existing issue is about defining itself and since it was already discussed to some part, it is closed.
- Following [issue](#) 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)
- MORAI 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.

- updated ITRI campus map
- ITRI ADV bus model
- interface with Autoware.Universe
- 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

↑ 1

0 comments