

Autonomy Software WG Meeting 2023/01/31 #3224

BonoloAWF started this conversation in **Working group meetings**



BonoloAWF on Jan 24, 2023

edited ▾

Administrative

- [Previous Meeting Minutes](#)

Common Resources

- Bus ODD [software architecture proposal](#)
- Bus ODD [architecture design discussions](#)
- Bus ODD [candidate simulator comparisons](#)
- Bus ODD [milestone development plan](#)
- Bus ODD [Project Board](#)
- Autoware [contributors list](#)

Attendees

- Chaired by Ryohsuke

Announcements

- None

Autoware.Universe

- ☒ Bus ODD [Jan-Feb Milestone](#)
- ☒ Bus ODD [high priority issues/PRs](#) not in the current milestone
- ☒ PRs [waiting for review](#) not in the current milestone/high priority.
- ☒ Autoware.Universe reported [bugs](#) not in the current milestone/high priority.
- ☒ Autoware [design discussions](#) and [demos](#)

Bus ODD progress updates

ITRI bus integration update (In meetings with 7am UTC time slot)

- ITRI bus still is not fixed yet.

Category



Working group meetings

Labels

meeting:software-wg

1 participant



- [👍 The positioning module is unstable for unknown reasons \(roslaunch2 has been provided for testing\) autoware.universe#2597](#)
 - [@YamatoAndo](#) has replied to the issue.

Ryohsuke - we should have a call to discuss timelines, scope of feasibility for the demo and any other concerns. Huei-Ru - Yes.

LeoDrive bus integration update

- On of the lidars is not working.
 - Needs replacement by ISUZU
 - Also needs calibration.
- Interface for door open/close is going to be tested today
- Performance issue regarding localization/perception
 - Planning to separate workloads to additional PC
 - [🔗 Autoware on multiple pcs #3216](#)

Discussions

Discussion 1

- Generate Deb packages for Autoware
 - Takagi-san and Esteve started to work on this. This should allow users to install Autoware much easier
 - <https://discord.com/channels/953808765935816715/953839698361589813/1063042630553960478>
 - [👍 Generate Debian packages for the ROS packages in Autoware.core and Autoware.universe #3222](#)
 - <https://github.com/autowarefoundation/autoware-deb-packages>


Discussion 2

- [👍 Issue with building ROS2 python packages \(related to setuptools\) autoware.universe#2755](#)
- Robotec reported issues around setuptools

Piotr - breaking changes have been identified due to the disabling of the legacy version. We could use CMake to build packages, or look into complying with the new standard for setuptools. Ryohsuke - is this issue being discussed in the ROS community as well since it affects ROS2? Piotr - It will probably show up eventually, but I don't know of discussions happening now.

Ryohsuke - is there a reason you had to upgrade setuptools to version 66? Is there package dependencies? Piotr - it was related to the CI system which upgraded to this version. It would be a good thing to tackle this since legacy support is discontinued which could break parts of our codebase. Ryohsuke - the workaround is to use version 65 setuptools but in the long term we want compatibility with the newer version. Piotr - a lot of packages could be affected in future, so this should be addressed in Autoware before it becomes a serious problem.

Discussion 3

- Follow-up on Interplai's proposal on Teleoperation system
-  [Proposal for Autoware Universe Teleoperation System #2742](#)
- No further discussion since Interplai updated architecture diagram.
- Prototype is complete and it works at low speeds
- ☐ [@raminterpl](#) can share more details on their initial implementation in the next meeting regarding the interface

Demos

None




Action Items

- ☐ [@mitsudome-r](#) For the PRs that are handled by TIER IV should be tagged as low-priority or (non-help-needed) so that we can filter them out during the meeting.




Review of Issues and Discussions

The following Discussions and Issues were highlighted:

Urgent Issues from previous meeting

- Bus ODD [high priority issues/PRs](#)
-  [The positioning module is unstable for unknown reasons \(rosvbag2 has been provided for testing\) autoware.universe#2597](#)
 - waiting for response from [@mikechan0731](#)
-  [Vehicle stops in front of speed bump autoware.universe#2661](#)
-  [feat\(lane_departure_checker\): include neighbor lanelets as optional autoware.universe#2709](#)
- <https://github.com/orgs/autowarefoundation/discussions/3187> - Tomtom is creating a map format for Autoware. Using OpenDrive format has been proposed.
- <https://github.com/orgs/autowarefoundation/discussions/3195> - Kaan plans to work on this this week

Other Issues/PRs from Jan-Feb Milestone:

-  [feat\(behavior_path_planner\): expand the drivable area based on the vehicle footprint autoware.universe#2609](#)
 - [@maxime-clem](#) came back from vacation.
 - Max will present next week on update
 - Currently, LeoDrive is using static expansion so no need to rush the PR
-  [Vehicle stops in front of non-existing obstacle on the path autoware.universe#2213](#)
 -  [fix\(obstacle_stop_planner\): add checking of point height autoware.universe#2296](#)

- [@lchojnack](#) to test in ITIR simulation
- [✔ Vehicle starts move before the steering angle converged](#) [autoware.universe#1543](#)
 - [🔗 fix\(trjectory_follower_nodes\): mpc_follower does not send proper converged data under low steering rate limit](#) [autoware.universe#2454](#)
 - waiting for [@kosuke55](#) 's response
 - Need of setting a call?
- [✔ behavior_path_planner generating invalid path orientation](#) [autoware.universe#2125](#)
 - [@mehmetdogru](#) started to create draft PR
- [✔ Planning simulator stops for non-existant virtual traffic light](#) [autoware.universe#2390](#)
 - waiting for [@xmfcx](#) 's pr. Should we ask [@soblin](#) to do it?
- [✔ add configurable lateral_distance for different target objects](#) [autoware.universe#2222](#)
 - [@beyzanurkaya](#) working on draft PR
- [🕒 Autoware keeps following old local path after behavior_velocity_planner is dead](#) [autoware.universe#1253](#)
 - waiting for [@mitsudome-r](#)'s PR
- [✔ Finalize the field type for pointcloud](#) [autoware.universe#563](#)
 - Documentation PR merged.
 - Check [@xmfcx](#) if we should close this.
- [🕒 Refactor mission planning to support when is goal behind start on the same lane](#) [autoware.universe#2354](#)
 - [🔗 feat\(route_handler\) Rework path design to support when goal is behind start pose](#) [autoware.universe#2424](#)
 - Discussion on-going in PR. Waiting for TIER IV planning team's response.
- [✔ Add config file for mission_planner](#) [autoware.universe#2665](#)
 - [🔗 feat\(mission_planner\): refine goal pose with parameter and add config file](#) [autoware.universe#2603](#)
 - needs re-review from code-owners
- [🔗 feat\(predicted_path_checker\): check predicted trajectory to avoid collisions planning can not handle](#) [autoware.universe#2528](#)
 - ☐ [mitsudome-r](#) to set a call between [@TakaHoribe](#) and [@brkay54](#)

Issues with no update

- [✔ obstacle_avoidance_planner/mpt considers that ego vehicle is symmetrical around x axis](#) [autoware.universe#2663](#)
- [✔ Add a margin for vehicle to stop before the end of drivable area boundary](#) [autoware.universe#2664](#)
 - [@ahmeddesokybrahim](#) will discuss internally with [@mehmetdogru](#) with current implementation and create PR.

Other issues

- [✔ Implement yolo_TVM](#) [autoware.universe#2309](#)
 - [@angry-crab](#) is waiting a response from [@Deepak3994](#)

0 comments