

Autonomy Software WG Meeting 2022/08/30 #2816

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



BonoloAWF on Aug 25, 2022

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](#)

Announcements

Phillip will be presenting on TUM planning modules at the meeting next week.

Autoware.Universe

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

Discussion topics

Enabling the code-owners feature in AWF repositories

- See [@kenji-miyake](#) comments below
- Proposal to assign a code owner for each package (which tracks the maintainers). When a pull request is created against that package, the correct reviewer can be assigned.
- Package.xml file of each package should have a valid username and email address.

Category



Working group meetings

Labels

meeting:software-wg

4 participants



- The CODEOWNERS files should not be edited directly (update package.xml and CI workflow will automatically update the CODEOWNERS file).

Bus ODD progress updates:

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

- See slides in comments for details
- On-vehicle integration is 90% complete and on-track for completion by end of next week
- DriveNet data is working, LidarNet input is ongoing work
- Ouster sensors are fully integrated, TF conversion node for lidar is ready
- Trimble hardware is fully integrated, localisation node will be tested when the vehicle is on the road
- Bus stop functionality was fixed

LeoDrive bus integration update

- no update (public holiday in Turkey)

Action Items

- ✓ **@BonoloAWF** to set up a call between AWF and Arm to finalise TVM support in Autware discussion ✓ [Run Lidar Centerpoint with TVM](#) autoware.universe#908 and ✓ [Add TVM inference capability](#) autoware.universe#628

Review of Issues and Discussions

The following Discussions and Issues were highlighted (see comments for details):

Issues:

- 🟡 [Autware keeps following old local path after behavior_velocity_planner is dead](#) autoware.universe#1253 - ongoing
- ✓ [Image messages have latency or dropped](#) autoware.universe#1228 - bag files converted, Fatih will test tomorrow
- ✓ [Run Lidar Centerpoint with TVM](#) autoware.universe#908 - moved to next milestone
- ✓ [Create speed_bump behavior module](#) autoware.universe#611 - working on draft PR
- ✓ [Motion_velocity_smoother should depend the steering_rate_limit](#) autoware.universe#1023 - ongoing PRs
- ✓ [Evaluate performance of object detection pipeline](#) autoware.universe#565 - waiting for reviewer comments
- ✓ [Finalize the field type for pointcloud](#) autoware.universe#563 - ongoing documentation additions
- ✓ [Implement sensor drivers for ROS 2](#) autoware.universe#551 - ongoing work to provide drivers

- [✔ Sometimes the sensing module doesn't publish concatenated pointcloud](#) [autoware.universe#1009](#) - multi-thread nodes referring to the same library could be the cause
- [✔ Ground segmentation fails for points behind the low objects](#) [autoware.universe#669](#) - no updates
- [✔ Positioning error in wrong zone when NDT starts](#) [autoware.universe#1421](#) - ready to close
- [✔ StepPolygon of obstacle_stop_planner is instable when changing the params of avoidance_module](#) [autoware.universe#1499](#) - PR awaiting review
- [✔ Checking only 4 corners in the drivable area](#) [autoware.universe#1716](#) - no updates
- [✔ planner node dies inside RCLCPP_COMPONENTS_REGISTER_NODE macro](#) [autoware.universe#1389](#) - check if there is a public avenue for testing
- [🕒 Adding NDT reinitialization statement and reinitialization while moving](#) [autoware.universe#1375](#) - ongoing
- [✔ planning mode doesn't change if lane change path can't be executed in behavior path planner](#) [autoware.universe#1328](#) - this was reproduced, data needs to be shared
- [✔ Can not give a new goal behind in the same lane](#) [autoware.universe#1715](#) - known issue
- [✔ Drivable area from behavior_path_planner is not expanded in this case.](#) [autoware.universe#1702](#) - bug is fixed
- [✔ tensorrt_yolo sample yolov5 model throw error on inference](#) [autoware.universe#1647](#) - possible fix outlined

Discussions:

- [💬 Lanelet map convention for static obstacles #2826](#) - extracting physically non traversal borders for planning
- [💬 \[proposal\] A new pointcloud map interface for dynamic map loading #2812](#) - proposal for supporting dynamic map loading
- [💬 Avoid obstacles near the center line in behavior_path_planner #2799](#) - more discussion needed
- [💬 Performance Analysis Report with CARET #2822](#) - there will be an upcoming presentation to present these results
- [💬 CARLA Simulator + Autoware Universe Tutorials #2828](#) - integrating Carla with Autoware

↑ 1

3 comments · 1 reply

Oldest

Newest

Top



kenji-miyake on Aug 30, 2022

@BonoloAWF @xmfcx @mitsudome-r

Hi, I'd like to enable the code-owners feature in AWF repositories.

<https://docs.github.com/en/repositories/managing-your-repositorys-settings-and-features/customizing-your-repository/about-code-owners>

The feature can automatically assign appropriate reviewers based on the settings in the `CODEOWNERS` file. I believe it can make reviews more efficient. For more detailed behaviors, please refer to this comment:

[autowarefoundation/autoware.universe#1619 \(comment\)](https://github.com/autowarefoundation/autoware.universe/pull/1671/files#comment-1111111)

The `CODEOWNERS` file is automatically updated using the `maintainer` tags information in `package.xml` like this.

<https://github.com/autowarefoundation/autoware.universe/pull/1671/files>

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1 reply



kenji-miyake on Aug 30, 2022

Based on this proposal, I have some requests for the maintainers.

- Please keep the maintainer tags of your package up to date.
- Please link your email address that is used in `package.xml` files to your GitHub account.
 - If it's not linked, the `CODEOWNERS` file raises errors.

```
This CODEOWNERS file contains errors ...

... .. @@ -0,0 +1,159 @@
1 + ## Copied from .github/CODEOWNERS-manual ##
2 + .github/* @autowarefoundation/autoware-maintainers
3 +
4 + ## Automatically generated from package.xml ##
5 + control/external_cmd_selector/* kenji.miyake@tier4.jp
6 + control/obstacle_collision_checker/* kenji.miyake@tier4.jp
7 + control/vehicle_cmd_gate/* takamasa.horibe@tier4.jp
8 + control/trajectory_follower/* takamasa.horibe@tier4.jp takayuki.murooka@tier4.jp
9 + control/trajectory_follower_nodes/* takamasa.horibe@tier4.jp takayuki.murooka@tier4.jp
10 + control/joy_controller/* kenji.miyake@tier4.jp
11 + control/lane_departure_checker/* kyoichi.sugahara@tier4.jp
12 + control/shift_decider/* takamasa.horibe@tier4.jp
13 + control/pure_pursuit/* takamasa.horibe@tier4.jp
14 + control/operation_mode_transition_manager/* takamasa.horibe@tier4.jp
15 + control/control_performance_analysis/* ali.boyal@tier4.jp berkay@leodrive.ai
16 + common/autoware_ad_api_msgs/* isamu.takagi@tier4.jp
17 + common/motion_common/* christopherj.ho@gmail.com
18 + common/component_interface_specs/* isamu.takagi@tier4.jp
19 + common/motion_testing/* christopherj.ho@gmail.com
20 + common/autoware_auto_perception_rviz_plugin/* opensource@apex.ai taichi.higashide@tier4.jp
21 + common/autoware_auto_tf2/* jtt.ray.c@gmail.com
22 + common/signal_processing/* takayuki.murooka@tier4.jp
```

- You can link multiple email addresses, so you don't have to remove your personal email.

Emails

Primary ⓘ

Not visible in emails ⓘ

Receives notifications ⓘ

kenji.miyake@tier4.jp

Not visible in emails ⓘ



hueirutseng on Aug 30, 2022

Collaborator

ITRI Bus Project Update: [Presentation](#)

↑ 1

0 replies



mitsudome-r on Aug 30, 2022

Maintainer

I have discussed with [@ambroise-arm](#) and AWF software architects regarding TVM.

Here's the slides with the minutes: [TVM Status.pdf](#)

Here's the summary:

- Although we have decided to use TVM as inference engine in Autoware in the past [discussion](#), we will still make it as a "recommended" inference engine until we have enough performance evaluated in Autoware and also have enough developers who can write/review TVM packages.
- Also, we would have to train more developers who can use TVM. As a starting point, [@angry-crab](#) will try to learn it. [@mitsudome-r](#) will also check CoE if there are anyone who is interested in learning the library as well.

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0 replies