

Software WG Meeting 2023/03/14 #3320

BonoloAWF started this conversation in [Working group meetings](#)



BonoloAWF on Mar 7, 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

- Autoware.AI is archived (read only)

Autoware.Universe

- ✓ General [Mar-Apr Milestone](#)
- ✓ Bus ODD [Mar-Apr Milestone](#)
- ✓ General [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)

- See meeting notes in comments below.
- Lucas offered to assist ITRI with Autoware integration technical issues

Category



Working group meetings

Labels

meeting:software-wg

3 participants



Discussions

Next Roadmap (Ryohsuke)

- Bus ODD demo clean-up will begin in preparation for the release.
- Long term goal for Autoware is robo-taxi 2025
- Next roadmap will focus on:
 - feature development on Autoware
 - WGs will drive development of the roadmap (similar to Open Robotics roadmaps)
 - roadmap list will be shared on Discord. The list is not feature requests but ownership (someone should take the lead to develop the feature)
 - please add tasks and owners to the list

Demos

Demo1

Action Items

-

Review of Issues and Discussions

The following Discussions and Issues were highlighted:

- <https://github.com/orgs/autowarefoundation/discussions/3325> - Kasper and Ambroise will take the lead in implementing this proposal
- [!\[\]\(e27c4336460e9e6729a19580c0456728_img.jpg\) Vehicle starts move before the steering angle converged](#) [autoware.universe#1543](#) - ongoing
- [!\[\]\(1a140e8db538fd46d58af9f9540232fd_img.jpg\) behavior_path_planner generating invalid path orientation](#) [autoware.universe#2125](#) - PRs ready for review
- [!\[\]\(5a658b86f2c8900a276c586c1f8f9f2f_img.jpg\) Vehicle stops in front of speed bump](#) [autoware.universe#2661](#) - closed
- [!\[\]\(dde796100cc481a63a6f917e6942c754_img.jpg\) Autoware parks inappropriately on parking lot](#) [autoware.universe#2991](#) - assigned to AutoCore

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3 comments · 1 reply

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BonoloAWF on Mar 9, 2023

Author

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Meeting minutes - AWF/ITRI Bus ODD 9 March 2023

- Present: Huei-Ru, Fatih, Bonolo, Ryohsuke, Samet, Mike, Yi Ling, Xinyu

Progress on fixing localisation issues

- Mike shared rosbags with Fatih (who will try to replicate the issues)
- Downsampling in EKF filter could be the cause of some of the issues

New bus platform

- Bus platform has changed
 - Platform and modules are the same on the new bus
 - Physical computers were moved to the new platform
 - Sensor configurations are almost identical, number of sensors are the same. Sensor calibration is required
 - BMS upgrade is completed. Renovation of interior is ongoing (bus to be delivered to ITRI after renovations)

Timelines (see slides for details)

- Internal renovations (March)
- Power distribution (April)
- Sensor and IPC integration (April)
- Autonomous integration (May)
- Bus ODD demo (August)

Possible options (Huei-Ru)

- Option 1: medium size bus running ROS 1 on a public road
- Option 2: Long 12m bus running ROS 1 (with ROS 2 Docker for some modules) on ITRI campus
- Option 3: Upgrade new bus platform to ROS 2 and demo on ITRI campus

Samet - the narrative of the Leo Drive demo video was to demonstrate Autoware on public road

Ryohsuke - the goal of the Bus ODD is to show Autoware is hardware agnostic. It is better to have a ROS 2 demo video (even if on a private campus) to demonstrate Autoware Universe on 2 different platforms. Autoware.AI is already archived.

Fatih - The main discussion is Autoware.AI vs. Autoware Universe and timing. The ROS 2 videos would probably be around August time-frame.

Huei-Ru - ITRI has a long term plan to upgrade to ROS 2

Proposal for demo video

Three options were proposed :

1. Video 1 = Leo Drive ROS 2 (demo recording completed)
2. Video 2 = ITRI ROS 1 + Leo Drive ROS 2 (short clip showing private and public roads)

3. Video 3 = ITRI ROS 2 (ITRI campus, possibly extended to public road subject to approvals)

Ryohsuke - we could skip Video 2

Huei-Ru - we can have only 2 videos (1 and 3). Video 3 can be in August. Video 2 on a public road with Autoware.AI could be confusing.

Conclusion

- The consensus was that combining Autoware.AI and Autoware Universe in one video would be confusing for the viewer
- ITRI demo video recording is delayed to August
- The final decision about the demo video and timelines will be taken by the AWF TSC and Board.

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0 replies



hueirutseng on Mar 13, 2023

Collaborator

ITRI Bus ODD update on Mar.9 [Slide](#)

↑ 1

0 replies



liuXinGangChina on Mar 14, 2023

Collaborator

[AWF w63 ASWG.pdf](#)

↑ 1

1 reply



liuXinGangChina on Mar 14, 2023

Collaborator

Please help us to accelerate the review