

Software WG Meeting 2023/04/25 #3444

mitsudome-r started this conversation in **Working group meetings**



mitsudome-r on Apr 20, 2023

Maintainer

edited ▾

Administrative

- [Previous Meeting Minutes](#)

Common Resources

- Autoware [Roadmap 2023](#)
- 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 Mitsudome

Autoware.Universe

- General [Mar-Apr Milestone](#)
- Bus ODD [Mar-Apr Milestone](#)
- General [high priority issues](#) 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](#)

Discussions

Announcements

Updates from developers

ITRI Bus Integration Updates

Skipping since no ITRI members joined the call.

Category



Working group meetings

Labels

meeting:software-wg

2 participants



Other Discussion Topics

Adapt Autoware.universe for our PIXKIT vehicle (Alex)

PIX Moving would like to present their work with their effort to adapt Autoware.universe for PIXKIT vehicle, including ROS2 drivers for the vehicle, 4-wheel steering, documentation and others. This vehicle and the implemented software will be presented at the Autoware tutorial at IEEE MOST conference in Detroit.

PIX Moving also has some questions regarding Autoware.universe performance.

Mark's presentation: To be posted

- Videos will be shared in different conferences including IEEE MOST
 - If anyone has demo video to that they would like to see in conference (e.g., new use cases), please contact Alex.
 - David: possibly docking video that was shared in ODD WG?
 - Mark: that wasn't using Autoware.Universe
- Mark to post issues to Discussions after the call
- Possible solution maybe to:
 - Check build options
 - modify DDS configuration
 - convert nodes to components and use container for better communication efficiency
- Bonolo: PIX can update FTE activity report for April report with this content

Adding "local" coordinate option to Lanelet2 map loader

[#3427](#)

Currently, Lanelet2 map loader supports "MGRS" and "UTM", but they maybe overridden with "local_x/local_y" tags in lanelet2 map.

The PRs in the issue will add new option "local" so that users have to explicitly select "local" coordinate to use the tag.

Autoware Enhancement Project

- Fatih created the project for Autoware Enhancement:
<https://github.com/orgs/autowarefoundation/projects/21>
- We would like to sync on the scope of the Project board and how it should be maintained.

Distribution of new tasks

Action Items

- Developers to add their discussion items to the agenda for the next meeting
- Developers to share updates on their works in the next meeting

3 comments · 1 reply

Oldest

Newest

Top



ahuazuipiaoliang on Apr 27, 2023

Collaborator

Issue that Pixmoving meets

[autwarefoundation/autware.universe#3568](#)[autwarefoundation/autware.universe#3569](#)

↑ 1

0 replies



ahuazuipiaoliang on Apr 27, 2023

Collaborator

[Pixmoving Presentation Slides](#)

↑ 1

1 reply



ahuazuipiaoliang on Apr 27, 2023

Collaborator

[@mitsudome-r](#)

please have a look at the slides



ahuazuipiaoliang on Apr 28, 2023

Collaborator

[@mitsudome-r](#) Thank you for your advice, after modifying the DDS configuration, according to the [instruction of Autware](#), the performance of Autware has been optimized.

```
export PATH="$PATH:/home/pixkit/.local/bin"
source /opt/ros/humble/setup.bash
export RMW_IMPLEMENTATION=rmw_cyclonedds_cpp
export PATH=/usr/local/cuda/bin:${PATH}
export LD_LIBRARY_PATH=/usr/local/cuda/lib64:${LD_LIBRARY_PATH}
export PATH="/usr/local/cuda/bin:${PATH}"
export LD_LIBRARY_PATH="/usr/local/cuda/lib64:${LD_LIBRARY_PATH}"
export RCUTILS_COLORIZED_OUTPUT=1
export ROS_LOCALHOST_ONLY=1

if [ ! -e /tmp/cycloneDDS_configured ]; then
  sudo sysctl -w net.core.rmem_max=2147483647
  sudo ip link set lo multicast on
  touch /tmp/cycloneDDS_configured
fi
```

But we still meet the [autwarefoundation/autware.universe#3569](#)

↑ 1

0 replies