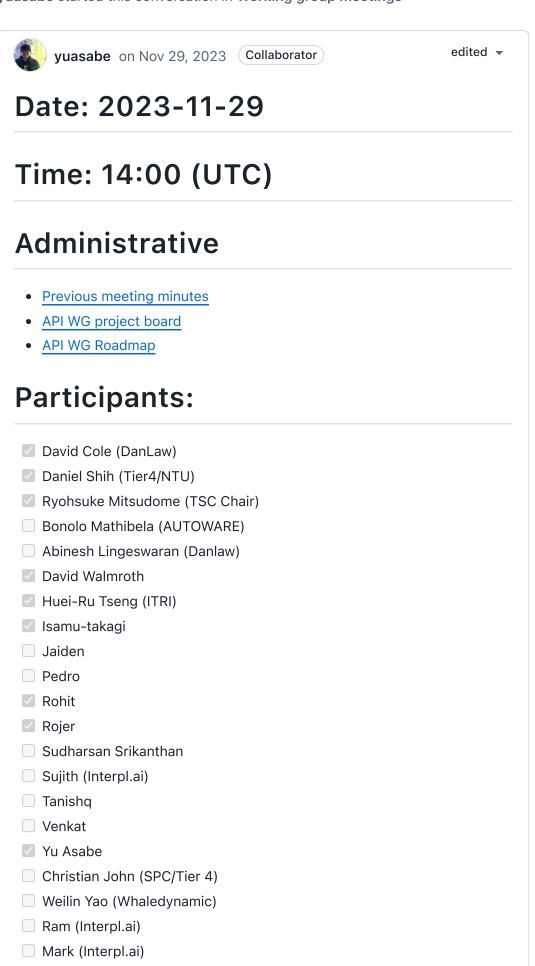
API WG Meeting (11/29/2023) #4025

yuasabe started this conversation in Working group meetings



Armagan (Leodrive)

Working group meetings Labels meeting:api-wg 1 participant

Lingzi (Whaledynamic)
Heewon Kim (AWF korea)
Shreekant Marwadi (Leidos)
Hidenaga Ushijima
Yu Zhigang
CY
✓ Ziri
Will Martin
Chang
Joao Amaral

Agenda

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Notes

- David) To Mitsudome-san, the real understanding begins when we start implementing the APIs in regard to specific use-cases. Any thoughts on this?
 - Mitsudome) We would like to have a GitHub discussion post made first to write down the draft/explanation of use-case, API interfaces.
 Then, after some discussion with other WGs as well, we can begin with the implementation.
 - Example of a good GitHub discussion/proposal post: https://github.com/orgs/autowarefoundation/discussions/3484
 - If a discussion post like this can be made, other WGs and members (including P/C teams) can review and give feedback.
- David) We can create a discussion post introducing what use cases we decided to focus on. Some details about the Danlaw demo implementation can be included as well.
 - Include overall architecture diagram, interface explanations, demo videos, etc.
 - Try to present more specifics in the next WG meeting.
- Take every CPM/BSM message and provide a corresponding interface to ROS (this is easy to do)
- More efficient approach that focuses on what the AV want, more efficient then creating a ROS interface for every V2X message
- Each region has its region-specific message; right now, we can focus on this; in the long run, we can focus more on region-agnostic interfaces.
- Creating a middleware on top of Vanetza that will interface with applications such as Autoware (multithreading processes, QoS)
 - Connecting V2X with Autoware/ROS

Review of Danlaw Demo (by Rohit)

- Review of the use case introduced in the last meeting: https://github.com/orgs/autowarefoundation/discussions/3994
- OBU on the robot receives a SRM message, decodes the packet and tells Autoware that there is an emergency vehicle.
- A module within Autoware will create a dummy object that is sent to the planning module to conduct avoidance of the emergency vehicle.

Next Steps

Presentation from Pedro about V2X and Autoware

Overall, we want to discuss the following over the next few meetings.

- Consider various use-cases and identify what kind of communication will take place between Autoware and the V2X stack.
- Requirements on the handshake between the V2X software and autonomous driving stack (creating sequence diagrams)
- Requirements for the interfaces/APIs
- Interface between V2X software and AD stack (not only APIs, any means of communication)
- HMI (both in-cabin and external) of Autoware and V2X applications



0 comments