

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

yuasabe started this conversation in Working group meetings



yuasabe on Nov 29, 2023

Collaborator

edited ▾

Date: 2023-11-29

Time: 14:00 (UTC)

Administrative

- [Previous meeting minutes](#)
- [API WG project board](#)
- [API WG Roadmap](#)

Participants:

- ☒ David Cole (DanLaw)
- ☒ Daniel Shih (Tier4/NTU)
- ☒ Ryohsuke Mitsudome (TSC Chair)
- ☐ Bonolo Mathibela (AUTOWARE)
- ☐ Abinesh Lingeswaran (Danlaw)
- ☒ David Walmroth
- ☒ Huei-Ru Tseng (ITRI)
- ☒ Isamu-takagi
- ☐ Jaiden
- ☐ Pedro
- ☒ Rohit
- ☒ Rojer
- ☐ Sudharsan Srikanthan
- ☐ Sujith (Interpl.ai)
- ☐ Tanishq
- ☐ Venkat
- ☒ Yu Asabe
- ☐ Christian John (SPC/Tier 4)
- ☐ Weilin Yao (Whaledynamic)
- ☐ Ram (Interpl.ai)
- ☐ Mark (Interpl.ai)
- ☐ Armagan (Leodrive)

Category



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

-

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

↑ 1

0 comments