

Autoware Architecture WG Meeting (vehicle)

2022/06/08 #2657

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



mitsudome-r on Jun 8, 2022

Maintainer

edited ▾

Participants

► Chaired by Ryohsuke

Goal of this WG

- <https://docs.google.com/presentation/d/1AhuCcScktgBwJreAjDspyf2OckTNFbK-fI1QT9NRLg/edit?usp=sharing>
- Wiki: <https://github.com/autowarefoundation/autoware-projects/wiki/Autoware-Architecture-Working-Group>

Discussion Topics:

Review Vehicle Interface Design

Reference:

- Past proposal from TIER IV:
<https://github.com/orgs/autowarefoundation/discussions/4>
 - https://github.com/tier4/AutowareArchitectureProposal.proj/blob/main/docs/design/software_architecture/Vehicle/Vehicle.md
- [Current Design of Vehicle Interface:](#)
- vehicle messages:
https://github.com/tier4/tier4_autoware_msgs/tree/main/autoware_vehicle_msgs/msg
- <https://github.com/orgs/autowarefoundation/discussions/16#discussioncomment-2765780>

Interface Design

- Output to DBW
 - Actuation Command:
https://github.com/tier4/tier4_autoware_msgs/blob/main/autoware_vehicle_msgs/msg/ActuationCommand.msg
 - Vehicle Specific Commands as separate messages
 - shift

Category



Working group meetings

Labels

meeting:architectur...

1 participant



- door
- wiper
- Output to Control/Planning:
 - velocity information: geometry_msgs::Twist
 - Steering
 - Actuation Status
 - control mode

Discussions:

- output to DBW:
 - There was a discussion to modify actuation command to be more generic by making it a pair of (string, value)
 - <https://github.com/orgs/autowarefoundation/discussions/16#discussioncomment-2765780>
 - Shark Liu: It is not efficient to provide command_name as string.
 - Fatih: We can provide the info message as separate message like CameraInfo msg + Image msg
 - Predrag: If we have [fixed message](#), is there any cases where accel_cmd and brake_cmd fused into single message?
 - Final Decision: fixed number of command (3 fields) + ActuationCommandInfo to describe each fields meaning.
- For odometry_msgs, is it velocity of each wheel? No, it is the velocity of base_link.

Next Week Topic

External API

↑ 1

0 comments