

# Create api for vehicle status #3232

New issue

Closed

3 tasks done

tkhmy opened this issue on Nov 28, 2022 · 5 comments · Fixed by [autowarefoundation/autoware-documentation#415](#)



tkhmy commented on Nov 28, 2022 · edited

## Checklist

- ☒ I've read the [contribution guidelines](#).
- ☒ I've searched other issues and no duplicate issues were found.
- ☒ I've agreed with the maintainers that I can plan this task.

## Description

Hi, currently autoware do not have any api that can monitor the vehicle status, if an user or application want to get the information, they will need to get from different topic. I suggest to create an api that combine the vehicle status and output into 1 topic.

## Purpose

Hi, I'm thinking to port the vehicle status to autoware.  
[https://github.com/tier4/tier4\\_ad\\_api\\_adaptor/tree/tier4/universe/awapi\\_awiv\\_adapter#awapivehiclegetstatus](https://github.com/tier4/tier4_ad_api_adaptor/tree/tier4/universe/awapi_awiv_adapter#awapivehiclegetstatus)

Here will the layout

- position
- geo\_point
- velocity
- ~~target\_velocity~~
- acceleration
- ~~target\_acceleration~~
- gear
- turn\_indicators
- hazard\_lights
- door
- energy

### Assignees

- tkhmy
- isamu-takagi

### Labels

type:new-feature

### Projects

None yet

### Milestone

No milestone

### Development

Successfully merging a pull request may close this issue.

**feat(ad-api): add door control**  
 tier4/autoware-documentation

### 3 participants



## Possible approaches

The documentation PR

[autowarefoundation/autoware-documentation#312](https://autowarefoundation.github.io/autoware-documentation/pr-312/design/autoware-interfaces/api/list/api/vehicle/)

<https://autowarefoundation.github.io/autoware-documentation/pr-312/design/autoware-interfaces/api/list/api/vehicle/>

## Definition of done

An api that combine the vehicle status and output to the user and application is created



**tkhmy** self-assigned this on Nov 28, 2022



**BonoloAWF** added the **type:new-feature** label on Nov 28, 2022



This was referenced on Jan 25, 2023

**Create api for vehicle information**  
#3226

✓ Closed

**Create api for visualization** #3225

✓ Closed



**isamu-takagi** transferred this issue from autowarefoundation/autoware.universe on Jan 25, 2023



**isamu-takagi** self-assigned this on Jan 26, 2023



**isamu-takagi** commented on Jan 27, 2023

Contributor

For `target_velocity` and `target_acceleration`, It might be better to separate these as vehicle command message. For `geo_point`, this cannot be provided if the map only has local coordinates.



**tkhmy** commented on Jan 31, 2023

Author

For `target_velocity` and `target_acceleration`, It might be better to separate these as vehicle command message. For `geo_point`, this cannot be provided if the map only has local coordinates.

Sorry for late reply, I miss the message.  
I agree that we should move the `target_velocity` and `target_acceleration` to `vehicle_command`.  
We should just put in the current vehicle status data  
  
For the `geo_point` I think we might be able to convert from MGRS to the global longitude and latitude

  **tkhmy** mentioned this issue on Feb 1, 2023

**feat(autoware\_adapi\_v1\_msgs): add vehicle status msgs**

 Merged

autowarefoundation/autoware\_adapi\_msgs#24

 7 tasks

 **tkhmy** commented on Feb 1, 2023

Author

I created the document for vehicle status  
<https://autowarefoundation.github.io/autoware-documentation/pr-312/design/autoware-interfaces/ad-api/list/api/vehicle/>

 **isamu-takagi** commented on Feb 1, 2023

Contributor

For the `geo_point` I think we might be able to convert from MGRS to the global longitude and latitude

According to [the lanelet2\\_extension documentation](#), Autoware works in a local coordinate system independent of MGRS by setting `local_x` and `local_y`.

  **isamu-takagi** mentioned this issue on Feb 14, 2023

**feat(autoware\_adapi\_v1\_msgs): add geometry shape message**

 Closed

autowarefoundation/autoware\_adapi\_msgs#26

 7 tasks

  **tkhmy** mentioned this issue on Feb 22, 2023

**feat: add vehicle status api**

 Merged

autowarefoundation/autoware.universes#2930

 7 tasks

 isamu-takagi mentioned this issue on Apr 13, 2023

## Add option to lanelet2\_map\_loader for local coordinates #3427

 Closed

 7 tasks



isamu-takagi commented on Jun 26, 2023

Contributor

I forgot the API to control doors. I have three suggestions.

1. array command

message:

- NONE
- CLOSE
- CLOSE
- NONE



2. index command

message:

- { index: 1, command: CLOSE }
- { index: 2, command: CLOSE }



3. role command

message:

- { role: GET\_ON, command: CLOSE }



 isamu-takagi mentioned this issue on Jul 12, 2023


## feat(ad-api): add door control

 Merged

autowarefoundation/autoware-  
documentation#415

 4 tasks



 isamu-takagi closed this as completed in  
[autowarefoundation/autoware-documentation#415](#)  
on Jul 14, 2023