

I encountered some problems that I don't know how to solve, resulting in the inability to use autoware #5103

Unanswered

1111F11 asked this question in Q&A



1111F11 on Aug 18

Category



Q&A

Labels

None yet

2 participants



Terminal error

[topic_state_monitor_node-10] [WARN] [1724032097.189147963]

[system.topic_state_monitor_pose_estimator_pose]:

/localization/pose_estimator/pose_with_covariance topic is timeout.

[topic_state_monitor_node-11] [WARN] [1724032097.236383411]

[system.topic_state_monitor_obstacle_segmentation_pointcloud]:

/perception/obstacle_segmentation/pointcloud topic is timeout.

[component_container_mt-79] [INFO] [1724032098.628125549]

[default_ad_api.node.operation_mode]: localization, perception component state is unhealthy. Autonomous is not available.

[system_error_monitor-23] [ERROR] [1724032100.008937529]

[system.system_error_monitor]: vehicle_state_report msg is timeout...

[topic_state_monitor_node-10] [WARN] [1724032100.288961980]

[system.topic_state_monitor_pose_estimator_pose]:

/localization/pose_estimator/pose_with_covariance topic rate has dropped to the error level.

[topic_state_monitor_node-11] [WARN] [1724032100.336380676]

[system.topic_state_monitor_obstacle_segmentation_pointcloud]:

/perception/obstacle_segmentation/pointcloud topic rate has dropped to the error level.

[component_container_mt-79] [INFO] [1724032101.628592067]

[default_ad_api.node.operation_mode]: localization, perception component state is unhealthy. Autonomous is not available.

[topic_state_monitor_node-10] [WARN] [1724032103.289057801]

[system.topic_state_monitor_pose_estimator_pose]:

/localization/pose_estimator/pose_with_covariance topic is timeout.

[topic_state_monitor_node-11] [WARN] [1724032103.436324617]

[system.topic_state_monitor_obstacle_segmentation_pointcloud]:

/perception/obstacle_segmentation/pointcloud topic rate has dropped to the error level.

[component_container_mt-79] [INFO] [1724032104.828330858]

[default_ad_api.node.operation_mode]: localization, perception component state is unhealthy. Autonomous is not available.

[system_error_monitor-23] [ERROR] [1724032105.008981684]

[system.system_error_monitor]: vehicle_state_report msg is timeout...

[topic_state_monitor_node-10] [WARN] [1724032106.389389649]

[system.topic_state_monitor_pose_estimator_pose]:

/localization/pose_estimator/pose_with_covariance topic is timeout.

[topic_state_monitor_node-11] [WARN] [1724032106.536768001]

[system.topic_state_monitor_obstacle_segmentation_pointcloud]:

/perception/obstacle_segmentation/pointcloud topic rate has dropped to the error level.

[component_container_mt-79] [INFO] [1724032108.027942489]

[default_ad_api.node.operation_mode]: localization, perception component state is unhealthy. Autonomous is not available.

[topic_state_monitor_node-10] [WARN] [1724032109.489034408]

[system.topic_state_monitor_pose_estimator_pose]:

/localization/pose_estimator/pose_with_covariance topic is timeout.

[topic_state_monitor_node-11] [WARN] [1724032109.612069400]

[system.topic_state_monitor_obstacle_segmentation_pointcloud]:

/perception/obstacle_segmentation/pointcloud topic rate has dropped to the warning level.

[system_error_monitor-23] [ERROR] [1724032110.108956059]

[system.system_error_monitor]: vehicle_state_report msg is timeout...

[component_container_mt-79] [INFO] [1724032111.028065045]

[default_ad_api.node.operation_mode]: localization, perception component state is unhealthy. Autonomous is not available.

[topic_state_monitor_node-10] [WARN] [1724032112.589055736]

[system.topic_state_monitor_pose_estimator_pose]:

/localization/pose_estimator/pose_with_covariance topic rate has dropped to the error level.

[topic_state_monitor_node-11] [WARN] [1724032112.636416817]

[system.topic_state_monitor_obstacle_segmentation_pointcloud]:

/perception/obstacle_segmentation/pointcloud topic is timeout.

[component_container_mt-79] [INFO] [1724032114.029499075]

[default_ad_api.node.operation_mode]: localization, perception component state is unhealthy. Autonomous is not available.

[system_error_monitor-23] [ERROR] [1724032115.109148300]

[system.system_error_monitor]: vehicle_state_report msg is timeout...

[topic_state_monitor_node-10] [WARN] [1724032115.590147794]

[system.topic_state_monitor_pose_estimator_pose]:

/localization/pose_estimator/pose_with_covariance topic is timeout.

[topic_state_monitor_node-11] [WARN] [1724032115.636517738]

[system.topic_state_monitor_obstacle_segmentation_pointcloud]:

/perception/obstacle_segmentation/pointcloud topic rate has dropped to the warning level.

[component_container_mt-79] [INFO] [1724032117.228079965]

[default_ad_api.node.operation_mode]: localization, perception component state is unhealthy. Autonomous is not available.

[topic_state_monitor_node-10] [WARN] [1724032118.626075243]

[system.topic_state_monitor_pose_estimator_pose]:

/localization/pose_estimator/pose_with_covariance topic is timeout.

[topic_state_monitor_node-11] [WARN] [1724032118.737434717]

[system.topic_state_monitor_obstacle_segmentation_pointcloud]:

/perception/obstacle_segmentation/pointcloud topic rate has dropped to the warning level.

[system_error_monitor-23] [ERROR] [1724032120.208975726]

[system.system_error_monitor]: vehicle_state_report msg is timeout...

[component_container_mt-79] [INFO] [1724032120.230111880]

[default_ad_api.node.operation_mode]: localization, perception component state is unhealthy. Autonomous is not available.

rqt_runtime_monitor

Runtime Monitor

State (0)

Errors (5)

Warnings (0)

duplicate_node_checker: duplicated_node_checker: Error: Duplicated nodes detected

multi_object_tracker: Perception delay check from original header stamp: Detection delay is over error threshold.

topic_state_monitor_pose_estimator_pose localization_topic_status: Error

topic_state_monitor_traffic_light_recognition_traffic_signals: perception_topic_status: Error

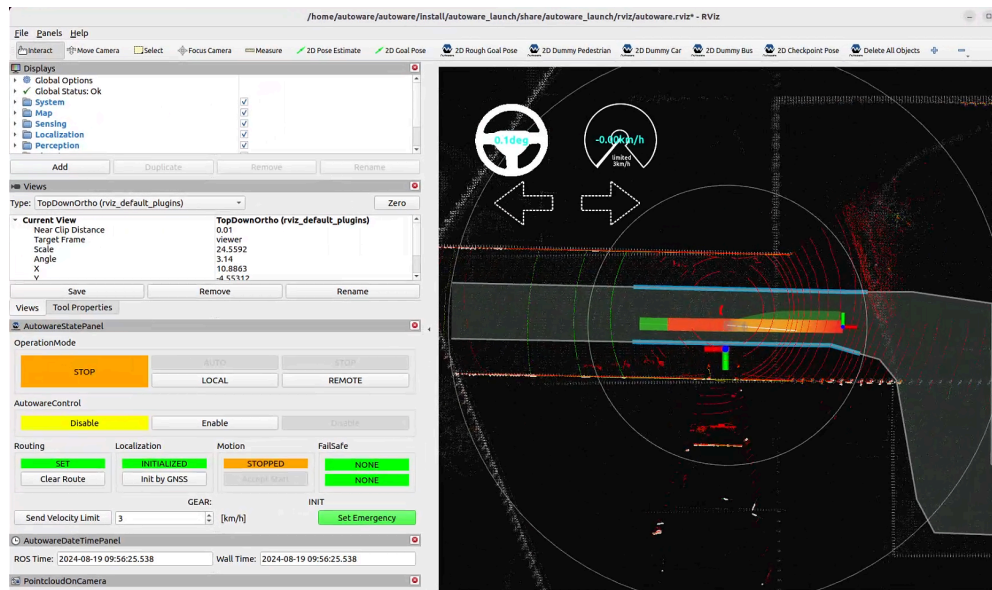
OK (38)

Component: topic_state_monitor_obstacle_segmentation_pointcloud: perception_topic_status

Message: Error

Hardware ID: topic_state_monitor

topic	/perception/obstacle_segmentation/pointcloud
status	Timeout
warn_rate	5.00 [Hz]
error_rate	1.00 [Hz]
timeout	1.00 [s]
measured_rate	1.15 [Hz]
now	1724032503.74 [s]
last_message_time	1724032502.68 [s]



What do I need to do to eliminate these errors?

↑ 1

1 comment · 7 replies

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maxime-clem on Aug 18

Collaborator

The performance of your system seem very bad, with some topics being published at a very low rate (`pointcloud` , ...) and some completely timing out (`vehicle_state_report` , ...). As a safety measure, the system monitor is prevent Autoware to engage if some topics are not published at a good enough rate.

If you can fix these issues with your system, then the autonomous mode should become available.

If you want to ignore these issues and still engage Autoware, you can configure the system monitor by editing its configuration files

(https://github.com/autowarefoundation/autoware_launch/tree/main/autoware_launch/config/system). For example, to not check the pointcloud topic you can remove [these lines](#).

You can also completely disable this monitoring by launching Autoware with the argument `launch_system:=false` .

⚠ Be aware that it is dangerous to engage Autoware and let it control your vehicle while your system has performance issues.

↑ 1

7 replies

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maxime-clem on Aug 19

Collaborator

You can remove the traffic signals topic from the `topics.yaml` like I wrote in my previous message:

https://github.com/autowarefoundation/autoware_launch/blob/main/autoware_launch/config/system/component_state_monitor/topics.yaml#L79-L90



1111F11 on Aug 19 Author

What I mean is that as long as the reporting error is eliminated, can autoware perform automatic driving normally?

Or do you think you will get this error in the end?

[component_container_mt-76] [INFO] [1724038454.006211217]

[default_ad_api.node.operation_mode]: perception component state is unhealthy. Autonomous is not available.



maxime-clem on Aug 19 Collaborator

Sorry I did not realize that this message was coming from the `default_ad_api` . You can disable it with the launch argument `launch_api:=false` .



1111F11 on Aug 19 Author

Thanks for your reply. I just started learning how to use autoware and I don't know much about the architecture. Could you please tell me how to turn off this API?



maxime-clem on Aug 19 Collaborator

When launching autoware, add the argument `launch_api:=false` . For example:

```
ros2 launch autoware_launch autoware.launch.xml
map_path:=/PATH/TO/MAP\
vehicle_model:=VEHICLE_MODEL sensor_model:=SENSOR_MODEL\
launch_api:=false
```



You can see the various parameters defined in this file:

https://github.com/autowarefoundation/autoware_launch/blob/main/autoware_launch/launch/autoware.launch.xml#L24