Lee, Seok (S.)

From: Lee, Seok (S.)

Sent: Thursday, June 13, 2019 10:07 AM

To: 'Alan Mosca'

Cc: selfdrivingcar-support@udacity.com; enterprise-support@udacity.com; 'Alicia Rangel'; 'Steve Rogers';

'william.felker@udacity.com'; 'megan.cody@udacity.com'

Subject: RE: about message on /base_waypoints topic @waypoint_updater.py

Hey Alan,

Conclusion:

Message type definition is not available for styx_msgs/ Lane at Workspace/Simulator.

The snapshot is AFTER the connection is established with this command:

cd /home/workspace/CarND-Capstone/ros catkin_make source devel/setup.sh roslaunch launch/styx.launch

And it says there's no such message definition for styx_msgs/Lane at simulator side:

/venv/lib/python2.7/site-packages (from catkin pkg) (2.2.0) Requirement already satisfied, skipping upgrade: six>=1.5 in /opt/carndcapstone/ venv/lib/python2.7/site-packages (from python-dateutil->catkin pkg) (1.11.0) (venv) root@c8873d5535e3:/opt/web-terminal# rosmsg info styx msgs/Lane Unable to load msg [styx msgs/Lane]: Cannot locate message [Lane]: unknown packa ge [styx msgs] on search path [{'rosconsole': ['/opt/ros/kinetic/share/rosconsol e/msg'], 'rosgraph': ['/opt/ros/kinetic/share/rosgraph/msg'], 'astra camera': [opt/ros/kinetic/share/astra camera/msg'], 'rocon python comms': ['/opt/ros/kine/ tic/share/rocon python comms/msg'], 'rocon gateway utils': ['/opt/ros/kinetic/sh are/rocon gateway utils/msg'], 'tf': ['/opt/ros/kinetic/share/tf/msg'], 'rgt pub lisher': ['/opt/ros/kinetic/share/rgt publisher/msg'], 'smach ros': ['/opt/ros/k inetic/share/smach ros/msg'], 'diagnostic aggregator': ['/opt/ros/kinetic/share/ diagnostic aggregator/msg'], 'rocon service pair msgs': ['/opt/ros/kinetic/share /rocon service pair msgs/msg'], 'moveit msgs': ['/opt/ros/kinetic/share/moveit m sgs/msg'l, 'ecl streams': ['/opt/ros/kinetic/share/ecl streams/msg'l, 'rgt topic ': ['/opt/ros/kinetic/share/rgt topic/msg'], 'joint trajectory action tools': [' /opt/ros/kinetic/share/joint trajectory action tools/msg'], 'rocon semantic ion': ['/opt/ros/kinetic/share/rocon semantic version/msg'], 'rosboost cfg': ['/ opt/ros/kinetic/share/rosboost cfg/msg'], 'rgt service caller': ['/opt/ros/kinet ic/share/rgt service caller/msg'], 'freenect camera': ['/opt/ros/kinetic/share/f reenect camera/msg'], 'realsense camera': ['/opt/ros/kinetic/share/realsense cam 'warehouse ros': ['/opt/ros/kinetic/share/warehouse ros/msg']. 'vocs

Troubleshooting:

- 1. Why not checking other messages real time? (i.e. vehicle position of x while running simulation):
- 1.1. Command: rostopic echo /current_pose | grep x:
- 1.2. Result: as shown below snapshot, it works well.



2.	What about /base_waypoints topic? Is Lane message available? However, I am getting below error for the inquiry of real time message traffic:

- 3. What about final waypoints topic? Because it has same message type on the topic.
- 3.1. Command: rostopic info/final waypoints
- 3.2. Result: no message because the message type is not available.

```
(venv) root@5fc50e8ce867:/opt/veb-terminal# rostopic info /final_waypoints
ype: styx_msgs/Lane

Publishers:
  * /waypoint_updater (http://5fc50e8ce867:33053/)

Subscribers:
  * /styx_server (http://5fc50e8ce867:45657/)
  * /pure_pursuit (http://5fc50e8ce867:33431/)
```

- 4. Does message is transmitted on the topic of final waypoints?
- 4.1. Command: rostopic echo /final waypoints
- 4.2. Result: no message because the message type is not available.

```
(venv) root@5fc50e8ce867:/opt/web-terminal# rostopic echo /base_waypoints
ERROR: Cannot load message class for [styx_msgs/Lane]. Are your messages built?
(venv) root@5fc50e8ce867:/opt/web-terminal# rostpic echo /final_waypoints
bash: rostpic: command not found
(venv) root@5fc50e8ce867:/opt/web-terminal# rostopic echo /final_waypoints
_ERROR: Cannot load message class for [styx_msgs/Lane]. Are your messages built?
(venv) root@5fc50e8ce867:/opt/web-terminal# ■
```

Regards, Seok

From: Alan Mosca <alan.mosca@udacity.com>

Sent: Thursday, June 13, 2019 9:11 AM **To:** Lee, Seok (S.) <SLEE194@ford.com>

Cc: selfdrivingcar-support@udacity.com; enterprise-support@udacity.com **Subject:** Re: about message on /base_waypoints topic @waypoint_updater.py

I'm not entirely sure, but my guess would be that maybe it gets loaded when you launch the simulator? Maybe someone from support can pitch in here.